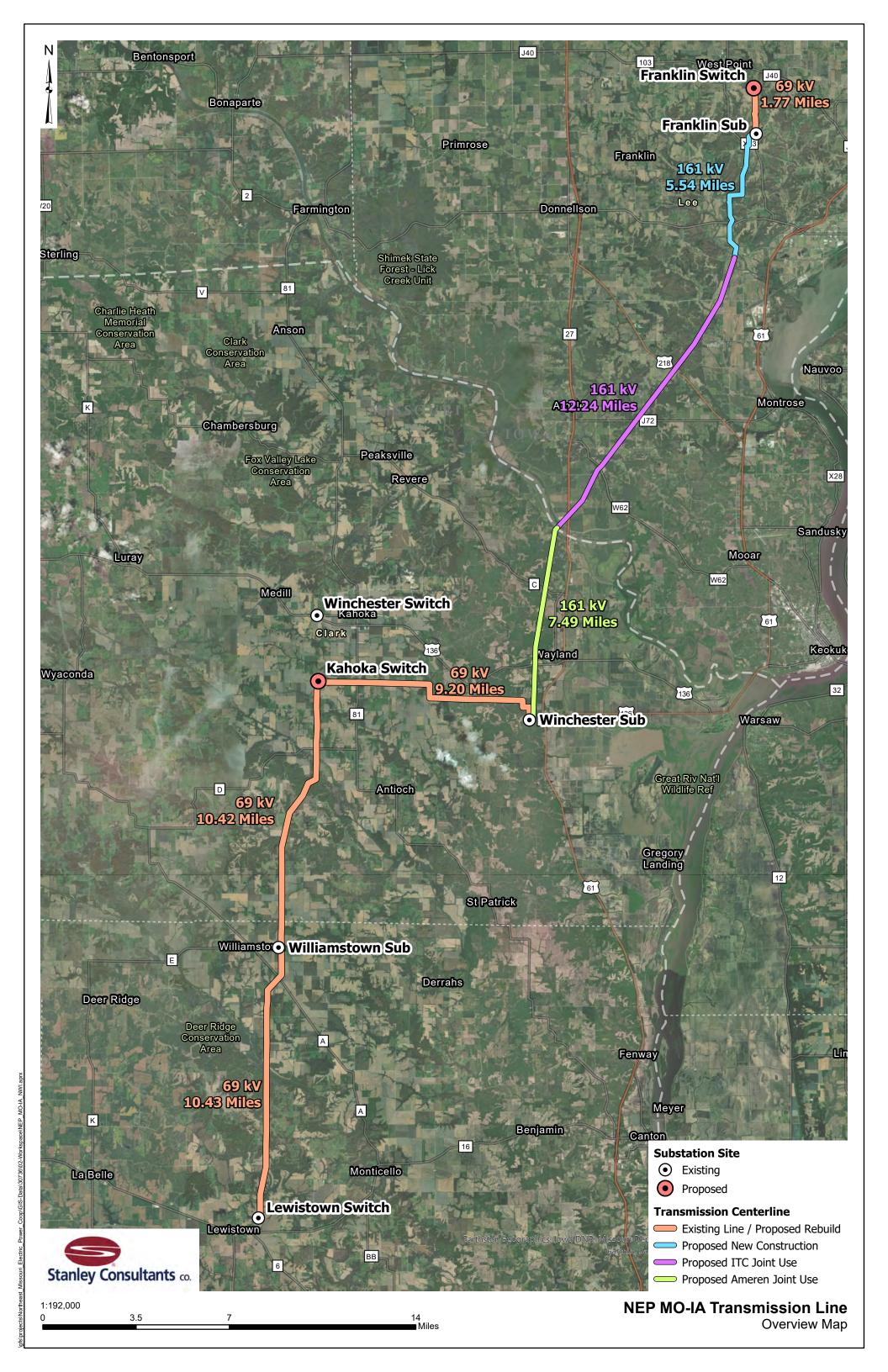
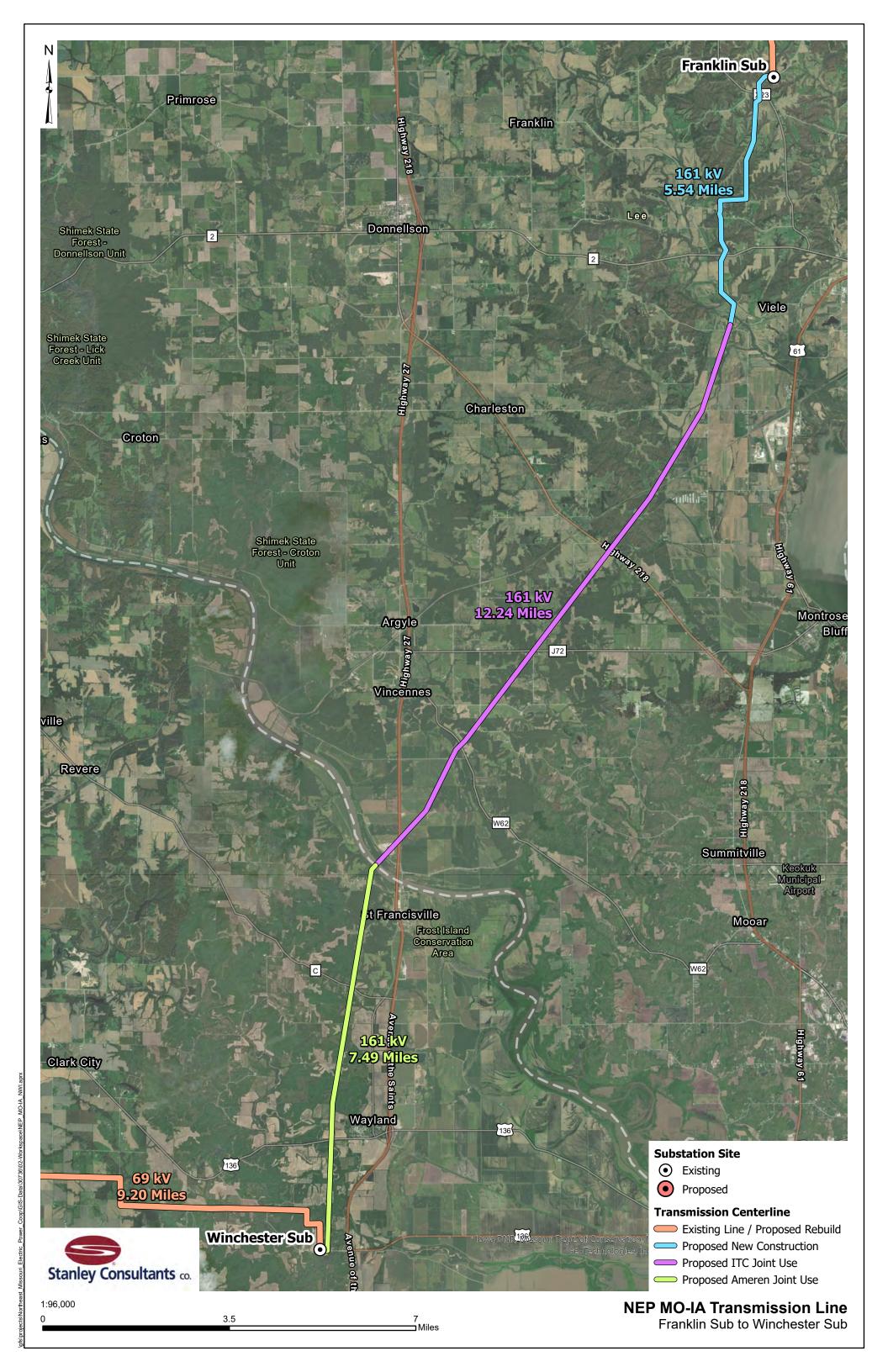
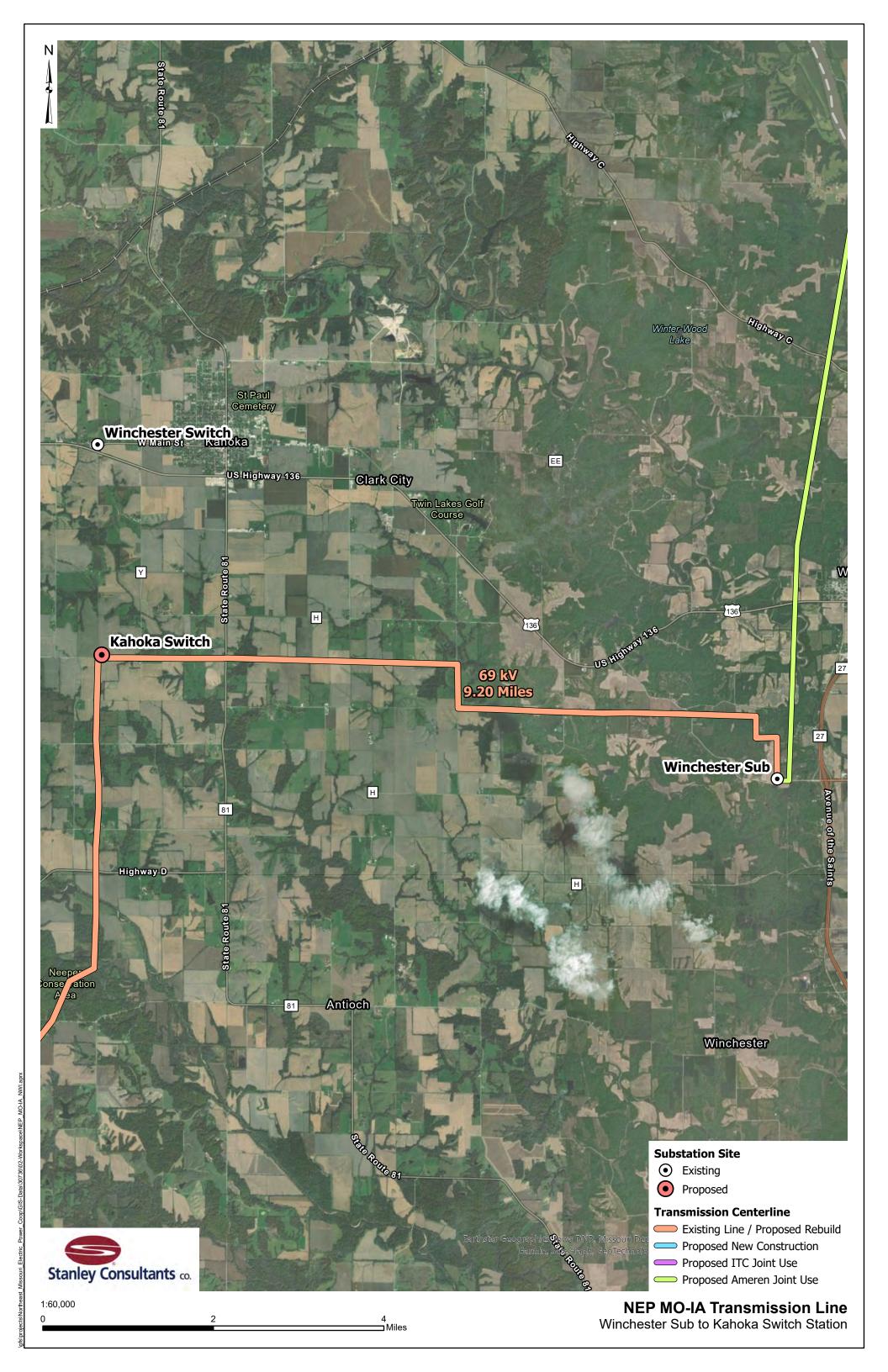
Appendix B Site Plans

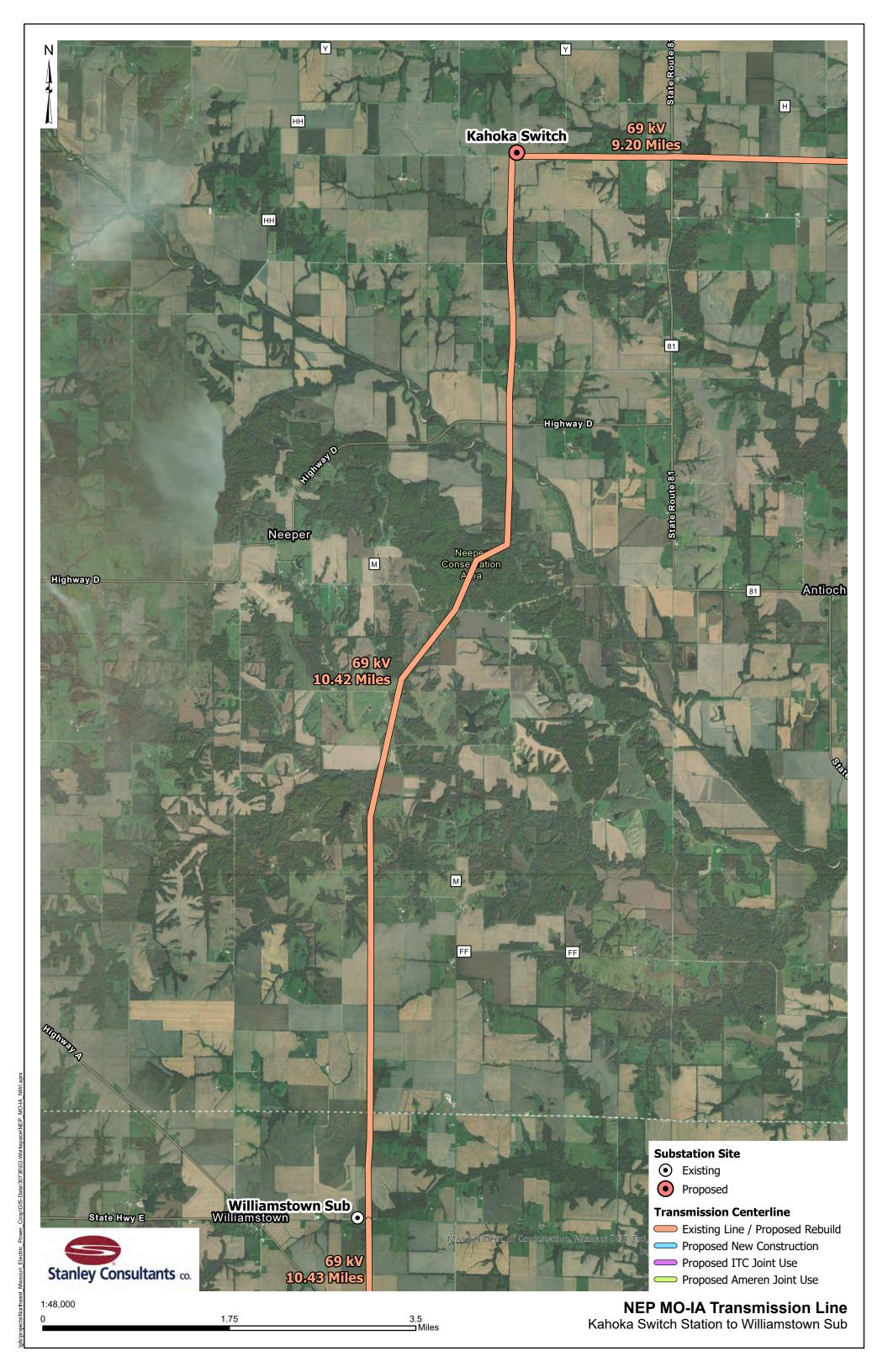


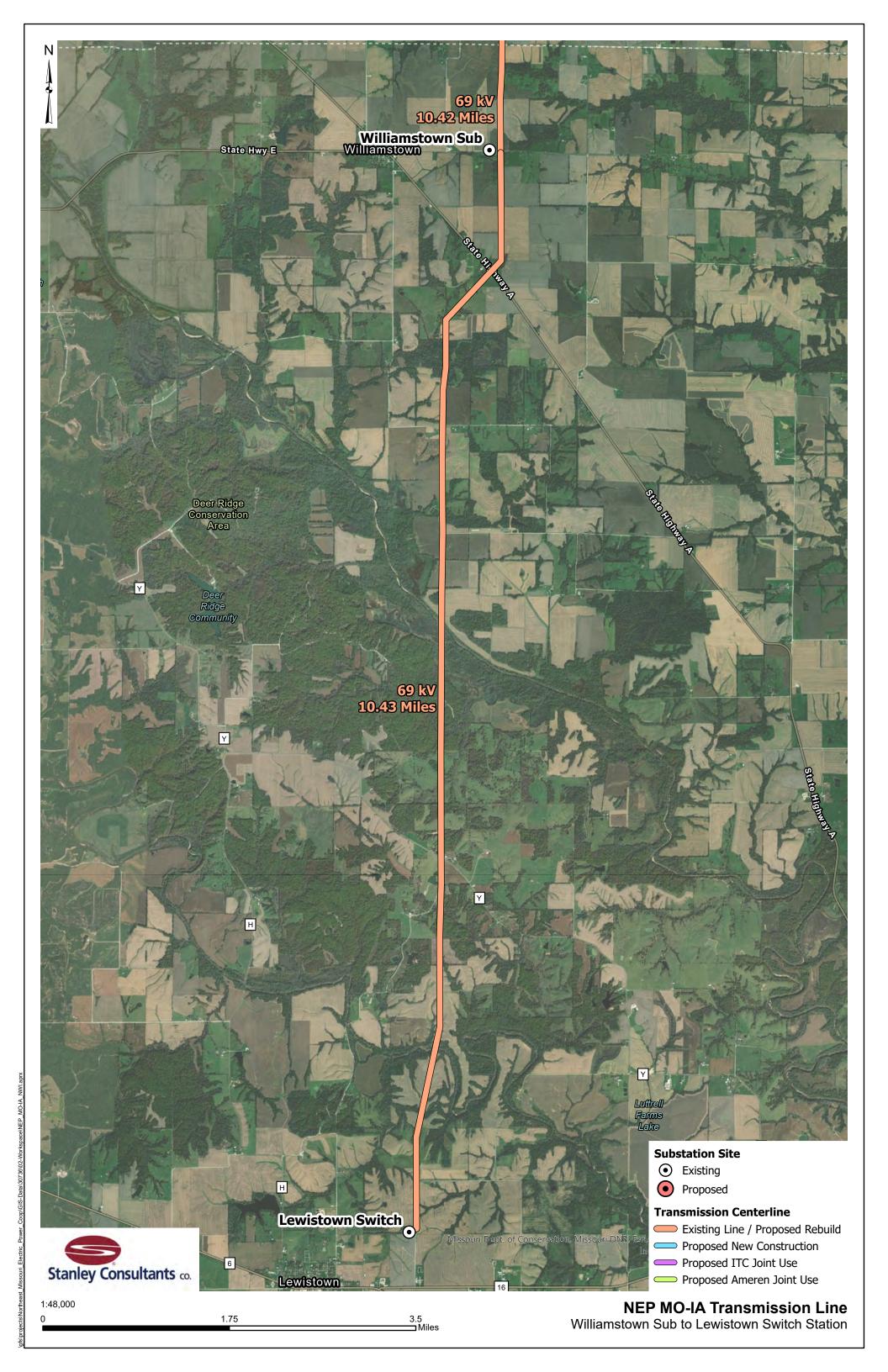












Appendix C NEPA Scoping and Consultation Documentation

2658 Crosspark Road Suite 100 Coralville, IA 52241

319.259.6658 stanleyconsultants.com



February 2, 2023

Kelly Poole Sovereign Lands Coordinator Iowa Department of Natural Resources 502 East 9th Street, 4th Floor Des Moines, IA 50319-0034

SUBJECT: Northeast Missouri Electric Power Cooperative – Missouri to Iowa Transmission

Line Environmental Assessment

Dear Kelly:

Northeast Missouri Electric Power Cooperative (NEP/Applicant) is in the process of performing an environmental assessment pursuant to the National Environmental Policy Act (NEPA) for the United States Department of Agriculture (USDA), Rural Development to assess the environmental impacts of a transmission line rebuild and construction project (Project). NEP has proposed to rebuild approximately 52 miles of transmission line to support a larger capacity, construct six miles of new transmission line, and conduct improvements at an existing substation to support higher voltages and additional transmission lines. This project stretches from Lewis County, Missouri, to Lee County, Iowa, and intends to obtain funding through the Rural Utility Services (RUS) Federal Grant Program.

The purpose of the Project is to provide the following benefits to the NEP transmission system:

- Provide additional transmission capacity in the Iowa portion of NEP's power system.
- Improve reliability in the area surrounding the project in both Iowa and Missouri portions of the system.
- Provide economic power to existing power by adequately meeting projected load from within the NEP system.

Approval of the proposed Project will result in the rebuild/ construction and operation of overhead electric transmission lines and distribution facilities. The majority of Project corridor would be rebuilt on existing utility easements, owned by NEP and others, to accommodate a new double-circuit line, with a small portion (approximately six miles) requiring easement acquisition and development of a new Right-of-Way and transmission line installation. Additionally, the Winchester Substation will be expanded.

The topography throughout the Project corridor varies, but generally consists of rills, ravines, intermittent and ephemeral creeks, and perennial streams and rivers in major valleys. Land uses within the project area, at lower elevations, is agricultural and residential development. Land use at higher elevations is predominately undeveloped deciduous forests with some residential development.

Project construction is expected take place over the course of several years as development of the route will be broken into sections. As stated, most of the Project is within existing utility right-of-way (ROW). Grading of the new utility easement will be minimized to the extent feasible and will focus on maintaining





original contours. When possible, wetlands and other Waters of the United States (WOTUS) will be avoided and there will be minimal impacts when avoidance is not feasible.

The project involves several segments of transmission line and the Winchester Substation improvements. The attached figure, "NEP_MO-IA_Transmission_MapSeries.pdf," provides the geographical location of each section below:

- Franklin Tap to Franklin Substation, 1.77 miles of double circuit 69 kV line rebuild: this portion of the project will consist of rebuilding the existing Franklin Tap with single metal pole structures following the existing right-of-way.
- Franklin Sub to Winchester Substation, 25.27 miles of 161 kV (operated at 69 kV) new line construction as single circuit new line and double circuit with existing ITC/Ameren 161 kV transmission line: this portion of the project will tie the existing Winchester Substation with the existing Franklin Substation. The new NEP line will be a single circuit line (5.54 miles) to connect with an existing ITC/Ameren 161 kV transmission line and create a double circuit with the existing ITC (Iowa, 12.24 miles) and Ameren (Missouri, 7.49 miles) 161 kV following the existing ITC/Ameren right-of-way using single metal pole structures.
- Winchester 69 kV to 12.47 kV Substation Improvements: this portion of the project will involve upgrading the Winchester Substation to accommodate the new Franklin Sub to Winchester Subtransmission line and the rebuild Winchester Tap (below).
- Winchester Tap to Winchester Substation, 9.20 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Winchester Tap with single metal pole structures following the existing right-of-way.
- Winchester Tap to Williamstown Tap, 10.42 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Winchester Tap to Williamstown Tap with single metal pole structures following the existing right-of-way.
- Williamstown Tap to Lewistown Switch Station: 10.43 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Williamstown Tap to Lewistown Switch Station with single metal pole structures following the existing right-of-way.

The above transmissions line will generally use 60 to 80 foot tall single-pole steel structures with spacing of generally 250 - 400 feet apart. Structures will be direct embedded 10 - 20 feet deep in drilled holes approximately 3 - 4 feet in diameter. Holes will be back filled with rock and any spoils removed and surrounding disturbance restored to original condition. At certain locations on the route, down-guys and anchors will be used to support the line. Anchors will have helical fins and will be installed by rotating the helical fins into the ground. In addition to direct embed steel poles, engineered laminated wood structures will also be utilized and directed buried in a similar manner to direct embed steel poles. Self-supporting steel structures may be used on the project. These structures will require a drilled pier concrete foundation, the size of which is anticipated to be 3-5 feet in diameter and 10-15 feet deep. Installed pole will generally have a height of 60 - 75 feet and will be supporting electrical transmission conductor.

Upgrades to the Winchester Substation will consist of expanding the footprint of the existing substation and adding equipment necessary to accommodate the new and rebuilt transmission circuits. The expanded area around the existing substation will be graded to level, a copper grounding grid will be installed below the soil surface, and approximately 6 inches of crushed rock will be added across the site. Also, within the site,





various structure foundations will be installed to a depth of between five and ten feet. The site will be enclosed by a chain-link fence with posts installed directly in the ground.

Upon Completion of construction, operations at the substation sites are expected to generate 4-10 trips per year for maintenance and inspection. The transmission corridor will be visited at least once a year and vegetation management will be provided through manual upkeep. The planned operational life of the installed facilities is approximately 50 years.

To initiate the process, RUS has asked that information regarding State listed species, critical habitat, and migratory birds be obtained from your office. Rural Development, as the lead Federal agency, is responsible for compliance with Section 7(a)(2) of the Endangered Species Act and will provide determinations of effect as appropriate during the consultation process. Please note that other applicable regulatory agencies will be contacted for their review of this project. The proposal should not represent a "major construction activity" as defined in 50 CFR 402.02. We request a list of any State listed or proposed threatened or endangered species and designated or proposed critical habitat that may be present in the Project corridor. In addition, please advise of present concerns you may have related to possible effects of the proposed Project on such species or critical habitat, as well as any other wildlife concerns.

We request your review of this Project and ask that you provide information on any concerns, resources, or potential impacts that you believe the forthcoming Environmental Assessment should address. We would appreciate any recommendations you may have to mitigate or avoid environmental impacts. Also, please share any information regarding additional review requirements that your agency may have. We would appreciate a response within **30 days** of your receipt of this request.

Please submit your comments on this Project to me at DusingMegan@stanleygroup.com. You may also mail responses to me at 2658 Crosspark Road Suite 100, Coralville, Iowa, 52241. Should you have any questions or would like additional information, please do not hesitate to contact me at the email address listed above or at (319) 259-6600.

Sincerely,

Megan Dusing, PWS

Project Manager

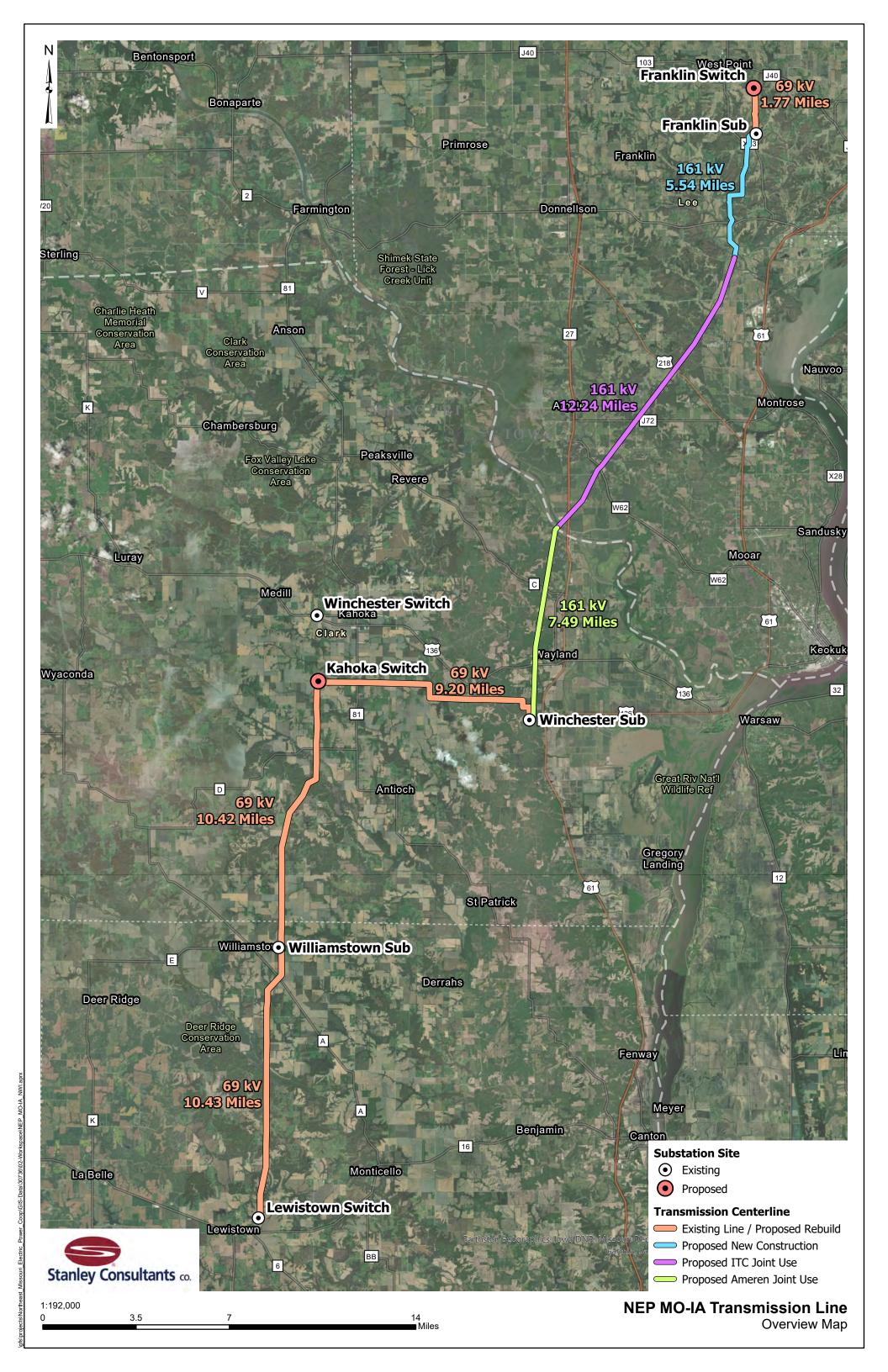
Stanley Consultants, Inc.

Enclosures: Project Figures and Overview Maps

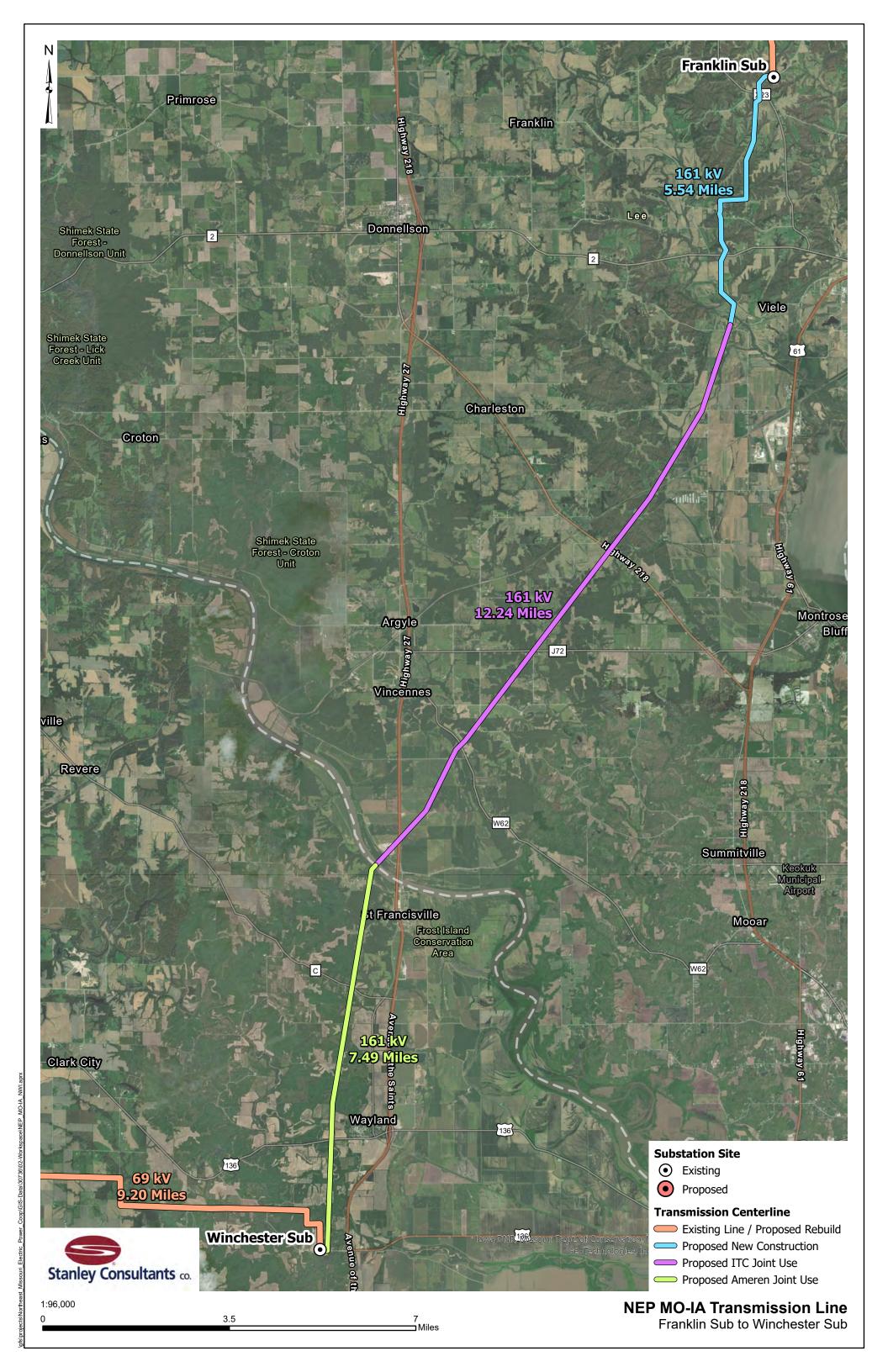


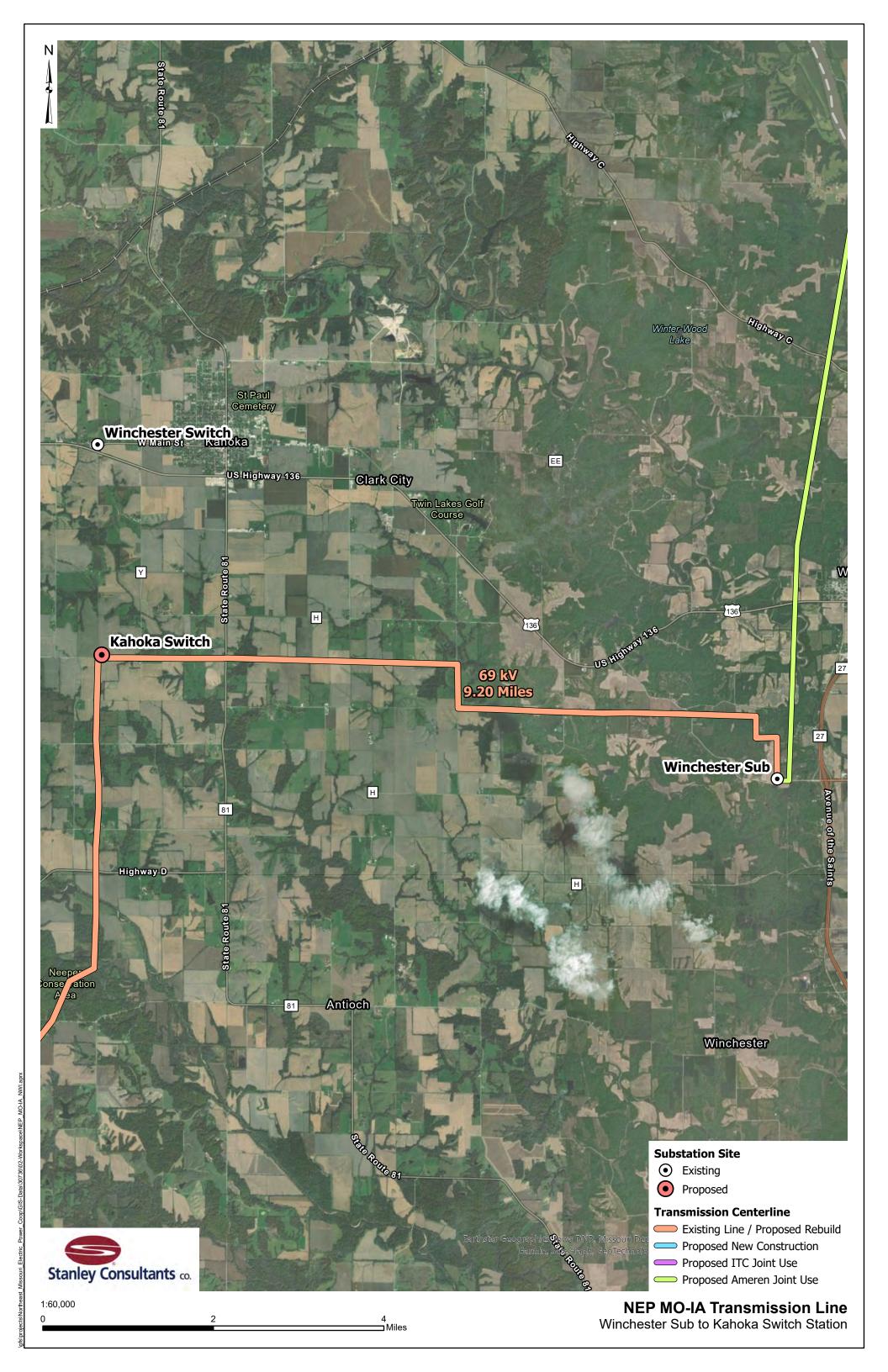


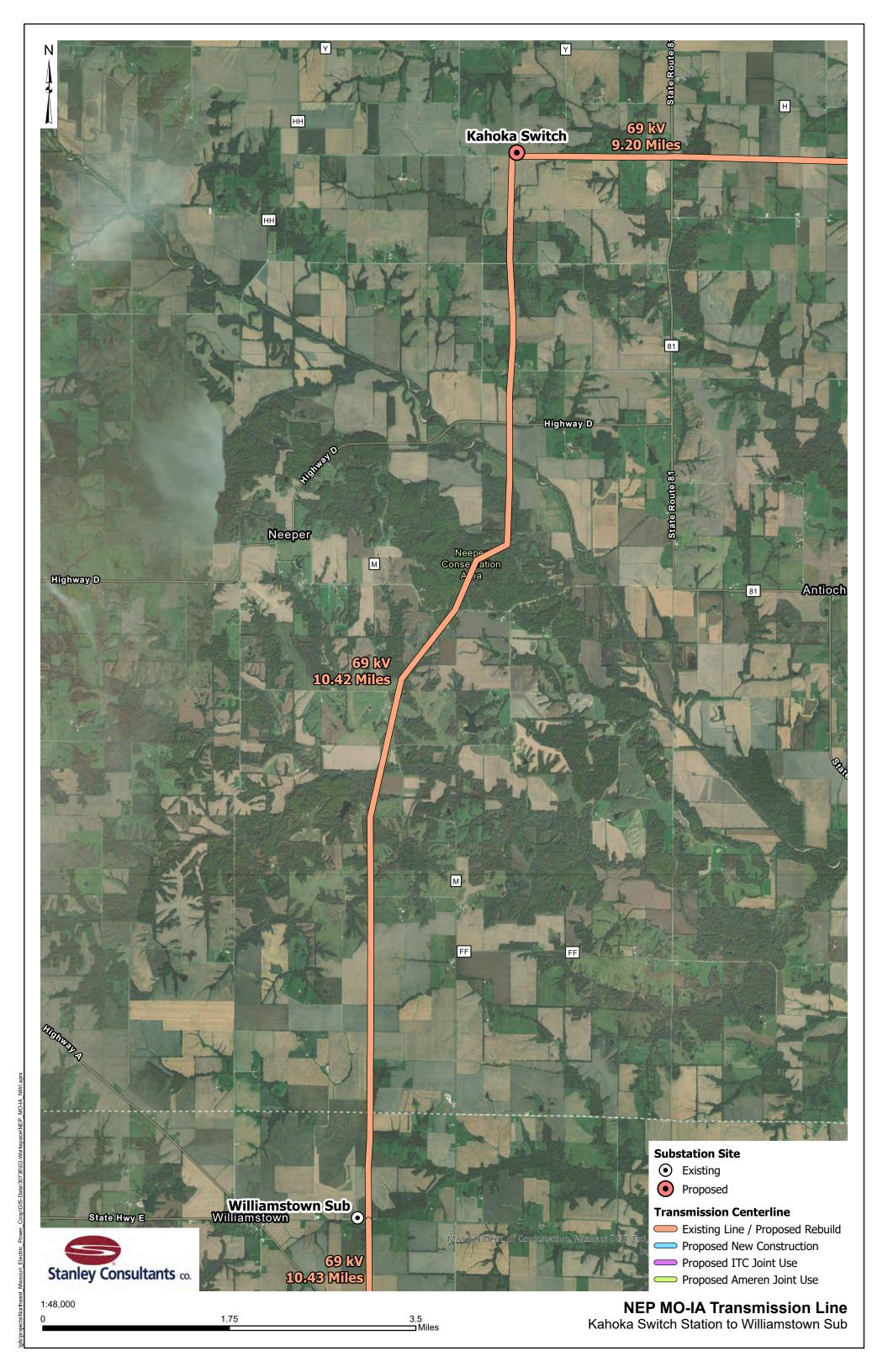
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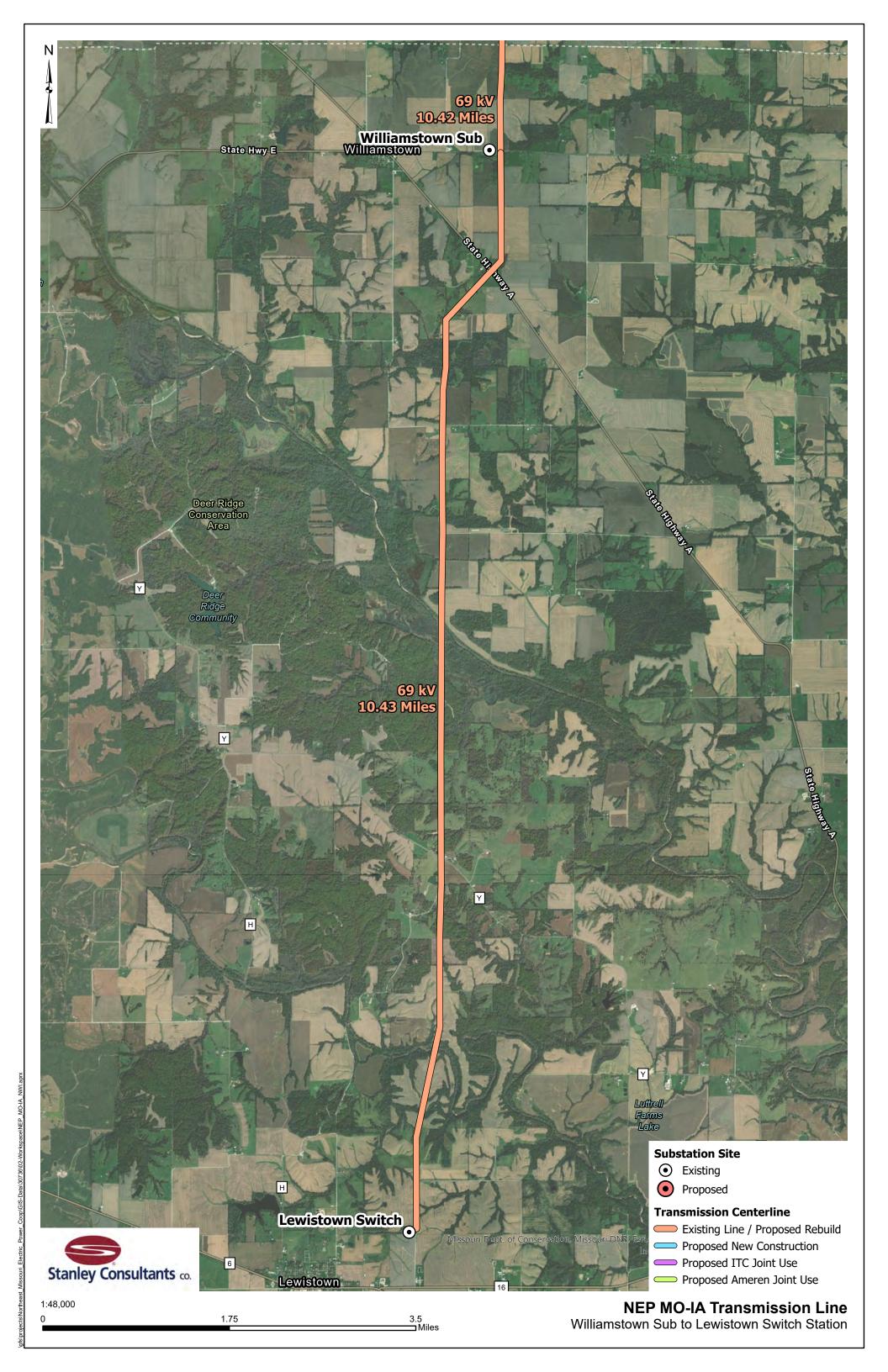












2658 Crosspark Road Suite 100 Coralville, IA 52241

319.259.6658 stanleyconsultants.com



January 20, 2023

USDA - NRCS 10500 Buena Vista Court Des Moines, Iowa 50322

SUBJECT: Northeast Missouri Electric Power Cooperative – Missouri to Iowa Transmission Line Environmental Assessment

Dear Matt, Curt, and Adriana:

Northeast Missouri Electric Power Cooperative (NEP/Applicant) is in the process of performing an environmental assessment pursuant to the National Environmental Policy Act (NEPA) for the United States Department of Agriculture (USDA), Rural Development to assess the environmental impacts of a transmission line rebuild and construction project (Project). NEP has proposed to rebuild approximately 52 miles of transmission line to support a larger capacity, construct six miles of new transmission line, and conduct improvements at an existing substation to support higher voltages and additional transmission lines. This project stretches from Lewis County, Missouri, to Lee County, Iowa, and intends to obtain funding through the Rural Utility Services (RUS) Federal Grant Program.

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Approval of the proposed Project will result in the rebuild/ construction and operation of overhead electric transmission lines and distribution facilities. The majority of Project corridor would be rebuilt on existing utility easements, owned by NEP and others, to accommodate a new double-circuit line, with a small portion (approximately six miles) requiring easement acquisition and development of a new Right-of-Way and transmission line installation. Additionally, the Winchester Substation will be expanded.

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Project construction is expected take place over the course of several years as development of the route will be broken into sections. As stated, most of the Project is within existing utility right-of-way (ROW). Grading of the new utility easement will be minimized to the extent feasible and will focus on maintaining original contours. When possible, wetlands and other Waters of the United States (WOTUS) will be avoided and there will be minimal impacts when avoidance is not feasible.





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Upgrades to the Winchester Substation will consist of expanding the footprint of the existing substation and adding equipment necessary to accommodate the new and rebuilt transmission circuits. The expanded area around the existing substation will be graded to level, a copper grounding grid will be installed below the soil surface, and approximately 6 inches of crushed rock will be added across the site. Also, within the site,





various structure foundations will be installed to a depth of between five and ten feet. The site will be enclosed by a chain-link fence with posts installed directly in the ground.

Upon Completion of construction, operations at the substation sites are expected to generate 4-10 trips per year for maintenance and inspection. The transmission corridor will be visited at least once a year and vegetation management will be provided through manual upkeep. The planned operational life of the installed facilities is approximately 50 years.

We are requesting information on the possible effects of the proposal on important farmland and any recommendations you have to minimize or avoid these effects. We also seek your assessment of the compatibility of the proposal with state and local government or any private programs and policies to protect important farmland. The NRCS form AD-1006 is enclosed as well as the soils report for the Project corridor. To ensure compliance with the Farmland Protection Policy Act and to support the NEPA process, RUS requests that the USDA Natural Resources Conservation Service review the enclosed project-specific information and complete Parts II, IV, and V on the enclosed NRCS-CPA-106.

We request your review of this Project and ask that you provide information on any concerns, resources, or potential impacts that you believe the forthcoming Environmental Assessment should address. We would appreciate any recommendations you may have to mitigate or avoid environmental impacts. Also, please share any information regarding additional review requirements that your agency may have. We would appreciate a response within **30 days** of your receipt of this request.

Please submit your comments on this Project to me at DusingMegan@stanleygroup.com. You may also mail responses to me at 2658 Crosspark Road Suite 100, Coralville, Iowa, 52241. Should you have any questions or would like additional information, please do not hesitate to contact me at the email address listed above or at (319) 259-6600.

Sincerely,

Megan/Dusing, PWS

Project Manager

Stanley Consultants, Inc.

Enclosures: Form NRCS-CPA-106, Project Figures, Soils Report





Form NRCS-CPA-106

(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I (To be completed by Federal Agency)			3. Date of Land Evaluation Request 4. Sheet 1 of						
1. Name of Project			5. Federal Agency Involved						
2. Type of Project			6. County and State						
PART II (To be completed by NRCS)			Date Request Received by NRCS			2. Person Completing Form			
Does the corridor contain prime, unique statewide or local important farmlan (If no, the FPPA does not apply - Do not complete additional parts of this for			YES I I NO I I			4. Acres Irrigated Average Farm Size			
5. Major Crop(s)	, , , , , , , , , , , , , , , , , , , ,	•	nd in Government Jurisdiction			7. Amount of Farmland As Defined in FPPA			
, , , ,	Acres:			%			Acres: %		
8. Name Of Land Evaluation System U	sed	9. Name of Local	Site Asse			10. Date Land Evaluation Returned by NRCS			
PART III (To be completed by Federal Agency)				Alternative Corridor Fo			or Segment		
A. Total Acres To Be Converted Dire	ctly			COTTUOLA	0011	Idoi B	Corridor C	COTTUOLD	
B. Total Acres To Be Converted Indi	rectly, Or To Receive S	Services							
C. Total Acres In Corridor									
PART IV (To be completed by NRCS) Land Evaluation Information									
A. Total Acres Prime And Unique Fa	armland								
B. Total Acres Statewide And Local	<u>'</u>								
C. Percentage Of Farmland in Cour									
D. Percentage Of Farmland in Govt.									
PART V (To be completed by NRCS	Relative								
value of Farmland to Be Serviced of	•								
PART VI (To be completed by Fed Assessment Criteria (These criteria	• • • • • • • • • • • • • • • • • • • •	I	laximum Points						
Area in Nonurban Use			15						
2. Perimeter in Nonurban Use			10						
Percent Of Corridor Being Far	med		20						
Protection Provided By State 2	And Local Government		20						
Size of Present Farm Unit Compared To Average			10						
Creation Of Nonfarmable Farmland			25						
7. Availablility Of Farm Support Services			5						
8. On-Farm Investments			20						
Effects Of Conversion On Farm Support Services			25						
10. Compatibility With Existing Agricultural Use			10						
TOTAL CORRIDOR ASSESSMENT POINTS			160						
PART VII (To be completed by Federal Agency)									
Relative Value Of Farmland (From			100						
Total Corridor Assessment (From Part VI above or a local site assessment)		site	160						
TOTAL POINTS (Total of above 2 lines)			260						
Corridor Selected:	2. Total Acres of Farm	lands to be 3	. Date Of S	L Selection:	4. Was	A Local Sit	e Assessment Use	ld?	
	Converted by Proje	ect:							
			YES NO						
5. Reason For Selection:	•								
Signature of Person Completing this Wigan Dusing	Part:					DATE			
NOTE: Complete a form for ea	ach segment with r	nore than one	Alternat	e Corridor					

(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I (To be completed by Federal Agency)			3. Date of Land Evaluation Request				4. Sheet 1 o	4. Sheet 1 of	
1. Name of Project			5. Federal Agency Involved						
2. Type of Project			6. County and State						
PART II (To be completed by NRCS)			Date Request Received by NRCS			2. Person Completing Form			
3. Does the corridor contain prime, unique statewide or local important farmlan (If no, the FPPA does not apply - Do not complete additional parts of this for				YES I I NO I I			4. Acres Irrigated Average Farm Size		
				nd in Government Jurisdiction			7. Amount of Farmland As Defined in FPPA		
Acres:				%		Acres: %			
Name Of Land Evaluation System U	Jsed	9. Name of Loca	al Site Asse	ssment System		10. Date Land Evaluation Returned by NRCS			
PART III (To be completed by Federal Agency)				Alternativ Corridor A		dor For S idor B	Segment Corridor D		
A. Total Acres To Be Converted Dire	ectly								
B. Total Acres To Be Converted Indirectly, Or To Receive Services									
C. Total Acres In Corridor	<u> </u>								
PART IV (To be completed by NRCS) Land Evaluation Information									
A. Total Acres Prime And Unique Fa	armland								
B. Total Acres Statewide And Local Important Farmland									
C. Percentage Of Farmland in Cour	nty Or Local Govt. Uni	t To Be Converte	ed						
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative									
PART V (To be completed by NRCS value of Farmland to Be Serviced of	•								
PART VI (To be completed by Fed	•	T T	Maximum						
Assessment Criteria (These criteria	• • • • • • • • • • • • • • • • • • • •		Points						
1. Area in Nonurban Use			15						
2. Perimeter in Nonurban Use			10						
3. Percent Of Corridor Being Farmed			20						
Protection Provided By State And Local Government			20						
Size of Present Farm Unit Compared To Average			10						
Creation Of Nonfarmable Farmland			25						
7. Availablility Of Farm Support Services			5					<u> </u>	
8. On-Farm Investments			20					<u> </u>	
Effects Of Conversion On Farm Support Services			25					ļ	
10. Compatibility With Existing Agricultural Use			10					<u> </u>	
TOTAL CORRIDOR ASSESSMENT POINTS			160						
PART VII (To be completed by Fe	deral Agency)								
Relative Value Of Farmland (From Part V)			100						
Total Corridor Assessment (From Part VI above or a local site assessment)			160						
TOTAL POINTS (Total of above 2 lines)			260						
1. Corridor Selected:	Total Acres of Farmlands to be Converted by Project:		3. Date Of S	Selection:	4. Was A Local Site Assessment Used?				
				YES NO NO					
5. Reason For Selection:		<u> </u>							
Signature of Person Completing this Part:				DATE					
NOTE: Complete a form for ea	ach acament with	mara than an	Altornat	o Corridor					

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?
 More than 90 percent - 15 points
 90 to 20 percent - 14 to 1 point(s)
 Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use? More than 90 percent - 10 points 90 to 20 percent - 9 to 1 point(s) Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points 90 to 20 percent - 19 to 1 point(s) Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County? (Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)
As large or larger - 10 points

Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points

Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)

Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points

Some required services are available - 4 to 1 point(s)

No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points

Moderate amount of on-farm investment - 19 to 1 point(s)

No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area? Substantial reduction in demand for support services if the site is converted - 25 points

Some reduction in demand for support services if the site is converted - 1 to 24 point(s)

No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points

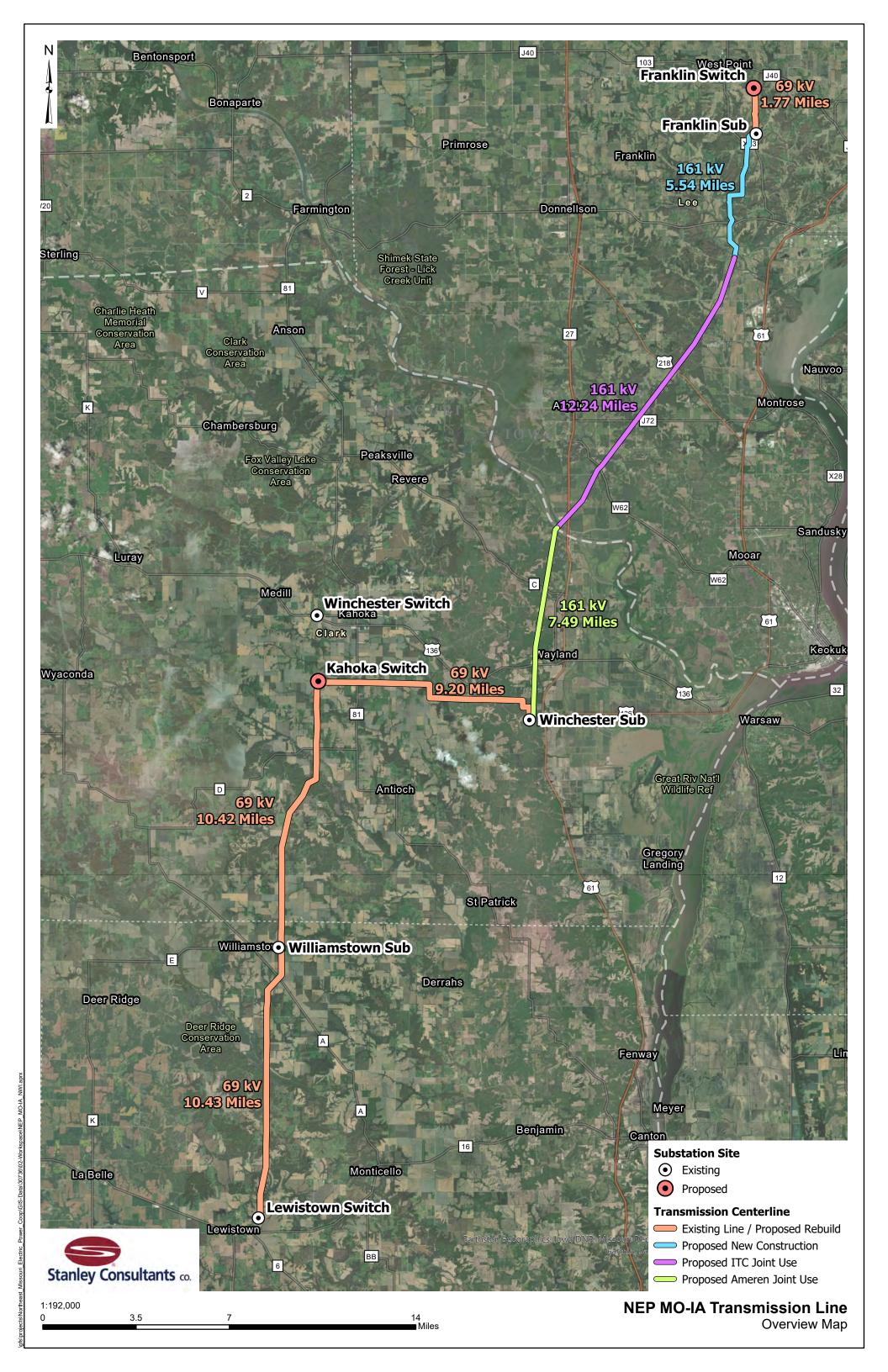
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)

Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

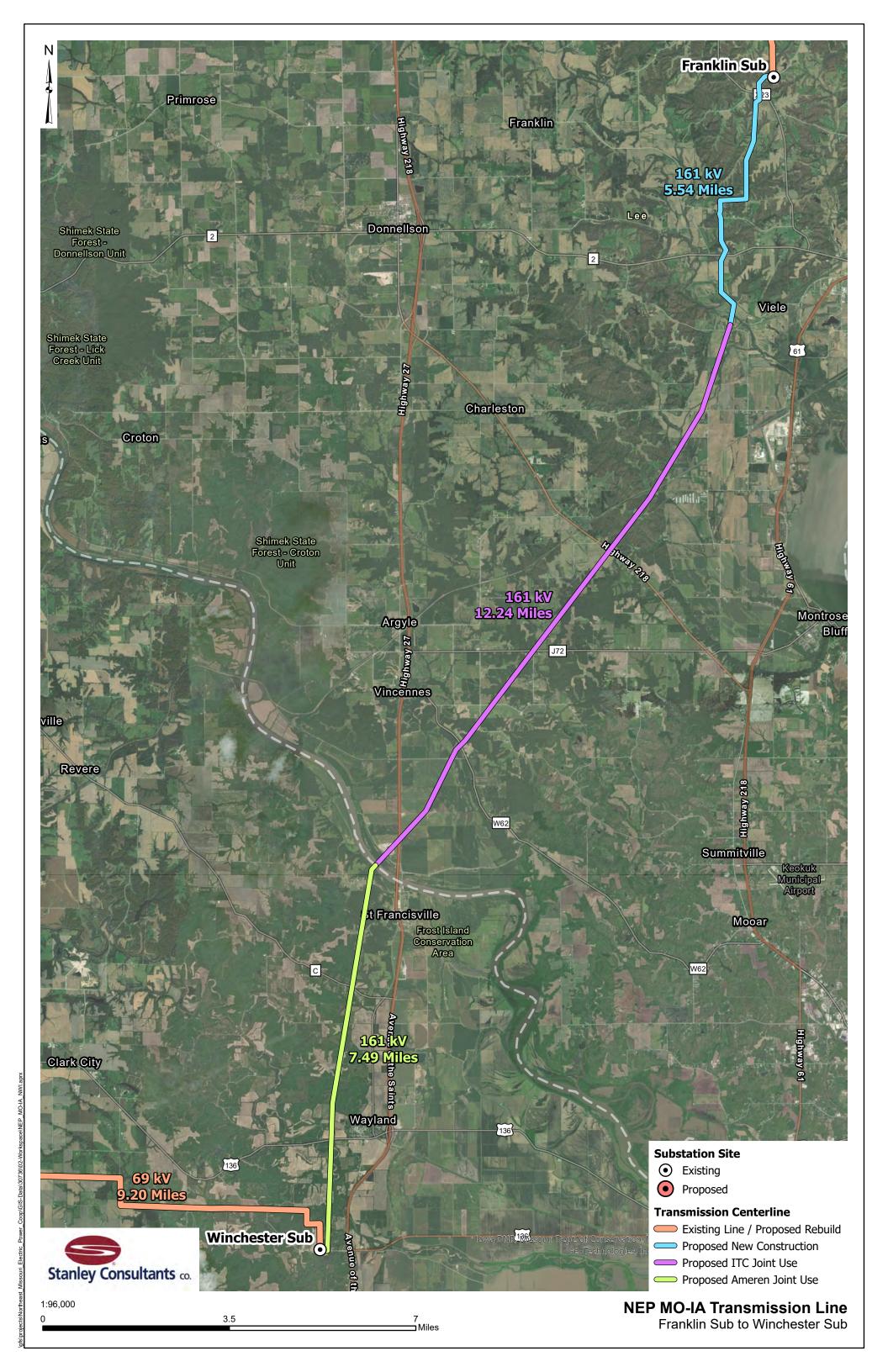


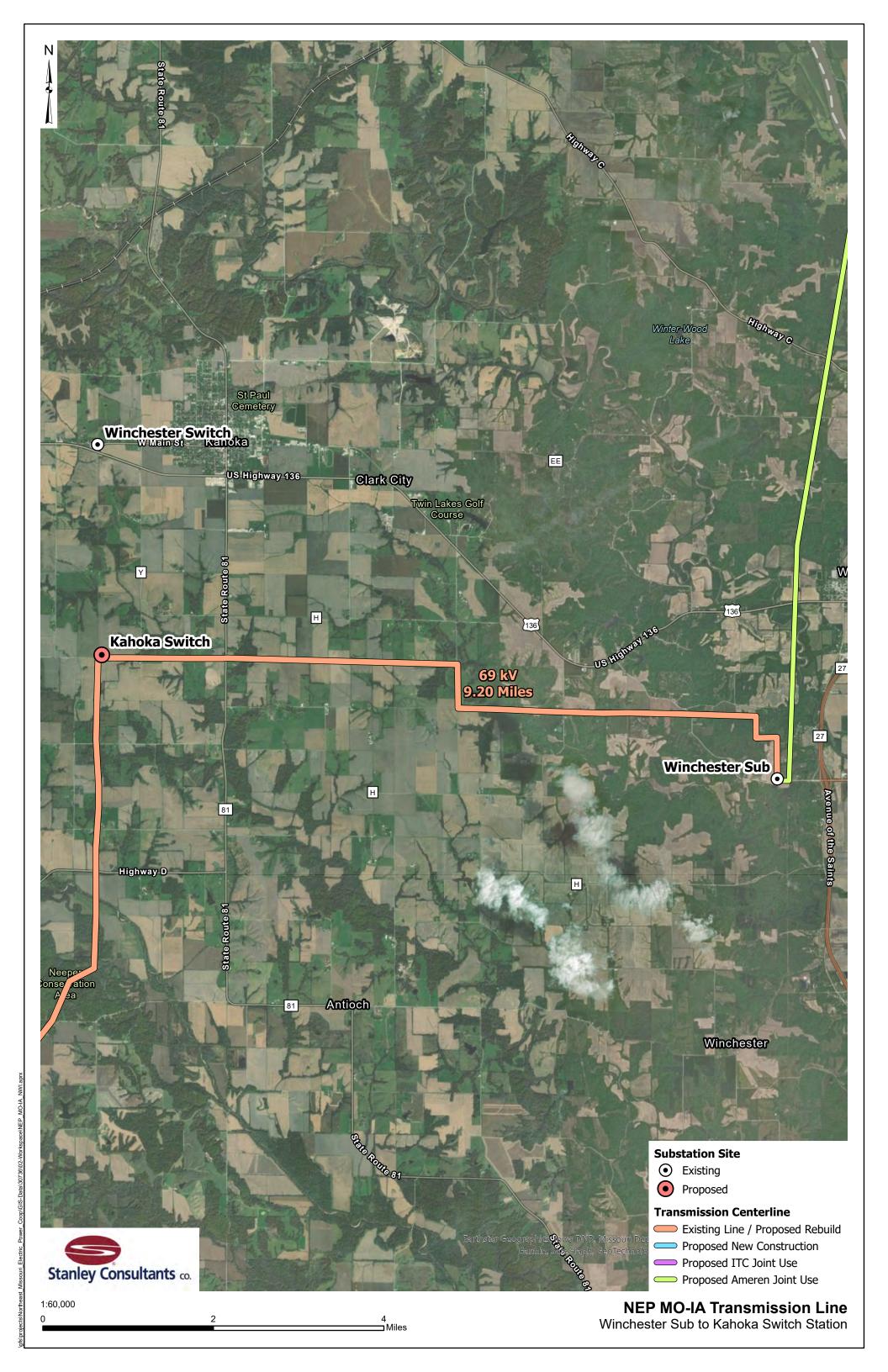


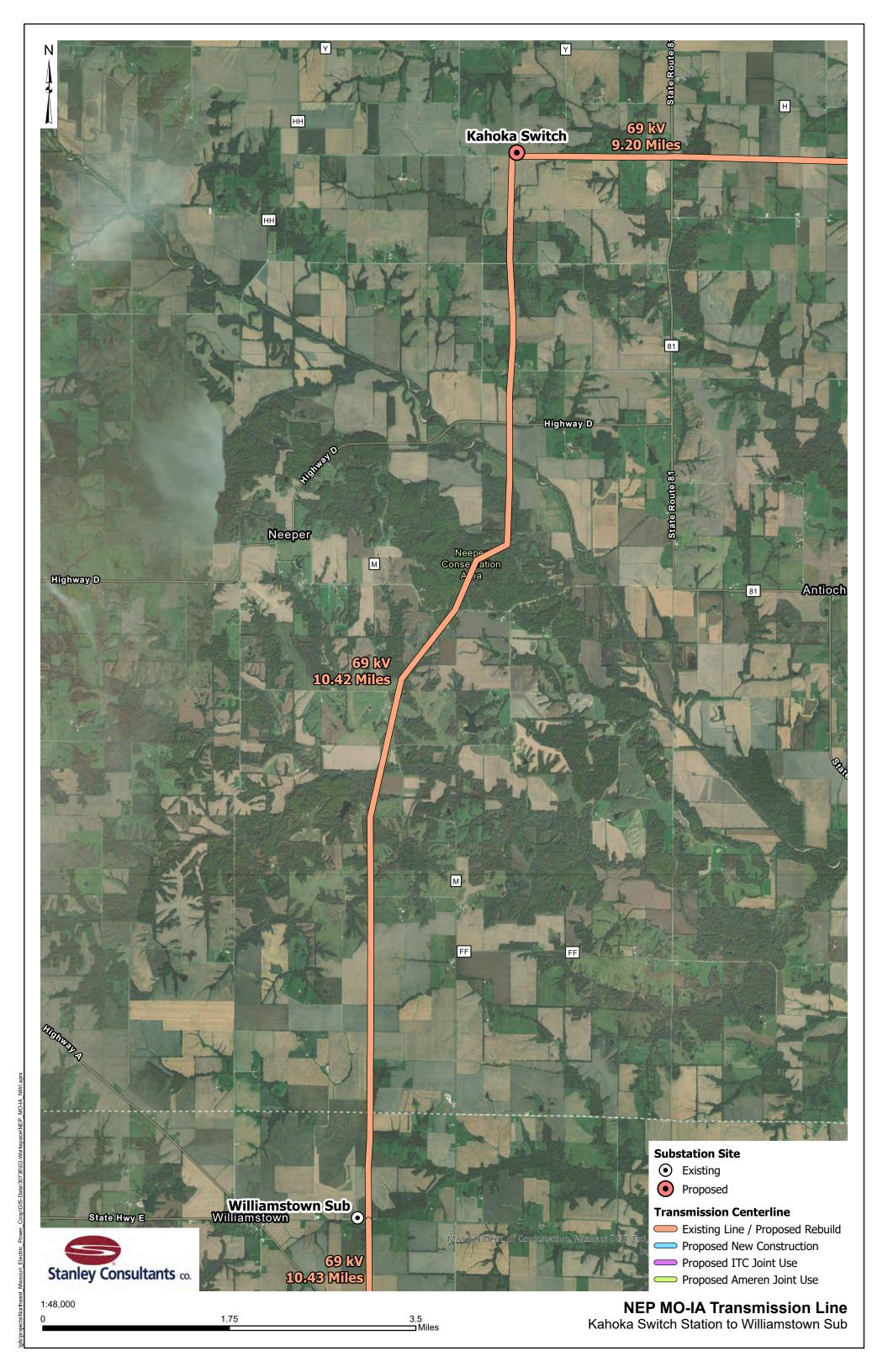
Project Figures

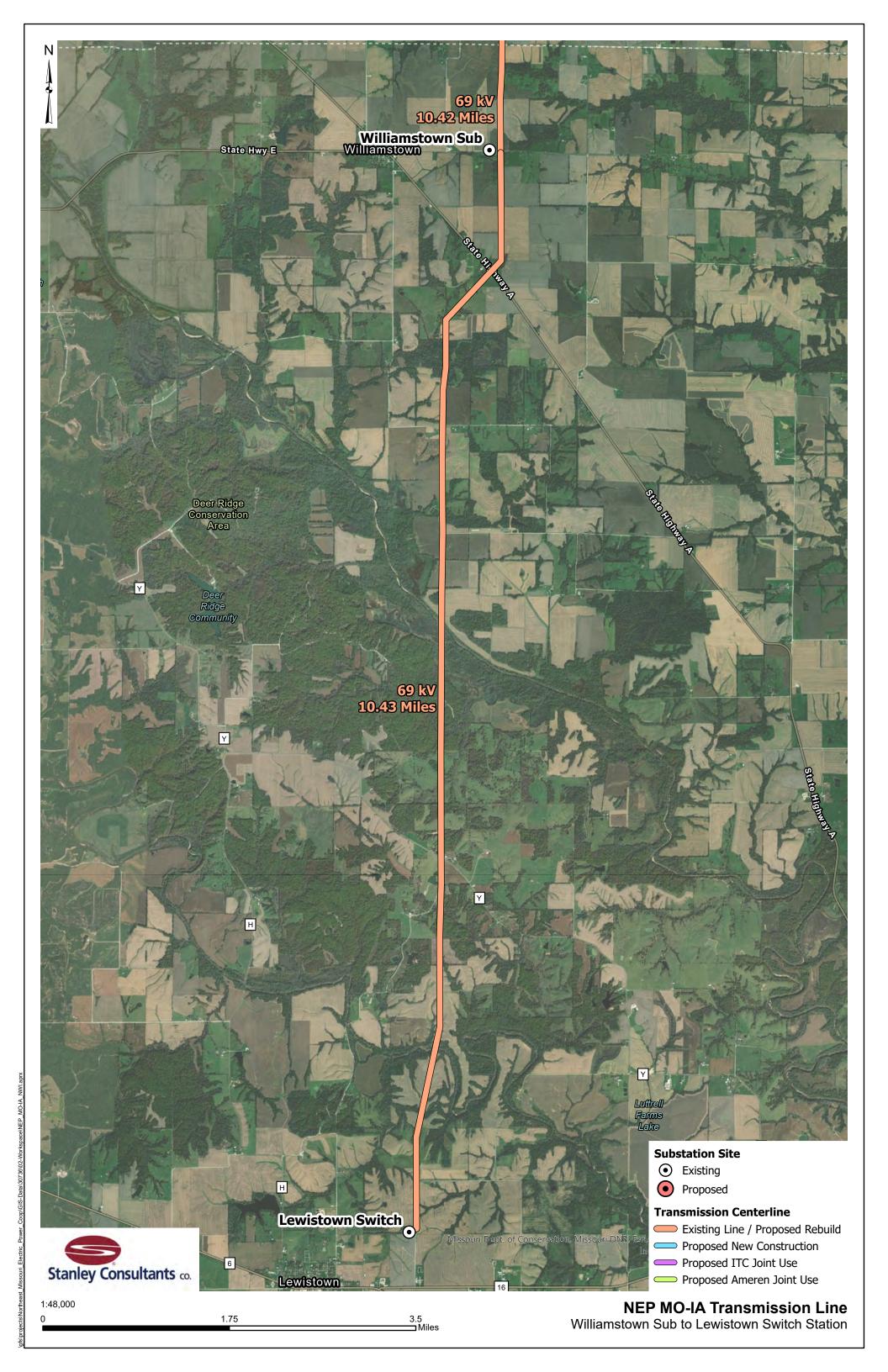












2658 Crosspark Road Suite 100 Coralville, IA 52241

319.259.6658 stanleyconsultants.com



February 3, 2023

Hannah Roos Environmental Review Coordinator Missouri Department of Conservation PO Box 180 Jefferson City, MO 65101

SUBJECT: Northeast Missouri Electric Power Cooperative – Missouri to Iowa Transmission

Line Environmental Assessment

Dear Hannah:

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original contours. When possible, wetlands and other Waters of the United States (WOTUS) will be avoided and there will be minimal impacts when avoidance is not feasible.

The project involves several segments of transmission line and the Winchester Substation improvements. The attached figure, "NEP_MO-IA_Transmission_MapSeries.pdf," provides the geographical location of each section below:

- Franklin Tap to Franklin Substation, 1.77 miles of double circuit 69 kV line rebuild: this portion of the project will consist of rebuilding the existing Franklin Tap with single metal pole structures following the existing right-of-way.
- Franklin Sub to Winchester Substation, 25.27 miles of 161 kV (operated at 69 kV) new line construction as single circuit new line and double circuit with existing ITC/Ameren 161 kV transmission line: this portion of the project will tie the existing Winchester Substation with the existing Franklin Substation. The new NEP line will be a single circuit line (5.54 miles) to connect with an existing ITC/Ameren 161 kV transmission line and create a double circuit with the existing ITC (Iowa, 12.24 miles) and Ameren (Missouri, 7.49 miles) 161 kV following the existing ITC/Ameren right-of-way using single metal pole structures.
- Winchester 69 kV to 12.47 kV Substation Improvements: this portion of the project will involve upgrading the Winchester Substation to accommodate the new Franklin Sub to Winchester Subtransmission line and the rebuild Winchester Tap (below).
- Winchester Tap to Winchester Substation, 9.20 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Winchester Tap with single metal pole structures following the existing right-of-way.
- Winchester Tap to Williamstown Tap, 10.42 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Winchester Tap to Williamstown Tap with single metal pole structures following the existing right-of-way.
- Williamstown Tap to Lewistown Switch Station: 10.43 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Williamstown Tap to Lewistown Switch Station with single metal pole structures following the existing right-of-way.

The above transmissions line will generally use 60 to 80 foot tall single-pole steel structures with spacing of generally 250 - 400 feet apart. Structures will be direct embedded 10 - 20 feet deep in drilled holes approximately 3 - 4 feet in diameter. Holes will be back filled with rock and any spoils removed and surrounding disturbance restored to original condition. At certain locations on the route, down-guys and anchors will be used to support the line. Anchors will have helical fins and will be installed by rotating the helical fins into the ground. In addition to direct embed steel poles, engineered laminated wood structures will also be utilized and directed buried in a similar manner to direct embed steel poles. Self-supporting steel structures may be used on the project. These structures will require a drilled pier concrete foundation, the size of which is anticipated to be 3-5 feet in diameter and 10-15 feet deep. Installed pole will generally have a height of 60 - 75 feet and will be supporting electrical transmission conductor.

Upgrades to the Winchester Substation will consist of expanding the footprint of the existing substation and adding equipment necessary to accommodate the new and rebuilt transmission circuits. The expanded area around the existing substation will be graded to level, a copper grounding grid will be installed below the soil surface, and approximately 6 inches of crushed rock will be added across the site. Also, within the site,





various structure foundations will be installed to a depth of between five and ten feet. The site will be enclosed by a chain-link fence with posts installed directly in the ground.

Upon Completion of construction, operations at the substation sites are expected to generate 4-10 trips per year for maintenance and inspection. The transmission corridor will be visited at least once a year and vegetation management will be provided through manual upkeep. The planned operational life of the installed facilities is approximately 50 years.

To initiate the process, RUS has asked that information regarding State listed species, critical habitat, and migratory birds be obtained from your office. Rural Development, as the lead Federal agency, is responsible for compliance with Section 7(a)(2) of the Endangered Species Act and will provide determinations of effect as appropriate during the consultation process. Please note that other applicable regulatory agencies will be contacted for their review of this project. The proposal should not represent a "major construction activity" as defined in 50 CFR 402.02. We request a list of any State listed or proposed threatened or endangered species and designated or proposed critical habitat that may be present in the Project corridor. In addition, please advise of present concerns you may have related to possible effects of the proposed Project on such species or critical habitat, as well as any other wildlife concerns.

We request your review of this Project and ask that you provide information on any concerns, resources, or potential impacts that you believe the forthcoming Environmental Assessment should address. We would appreciate any recommendations you may have to mitigate or avoid environmental impacts. Also, please share any information regarding additional review requirements that your agency may have. We would appreciate a response within **30 days** of your receipt of this request.

Please submit your comments on this Project to me at <u>DusingMegan@stanleygroup.com</u>. You may also mail responses to me at 2658 Crosspark Road Suite 100, Coralville, Iowa, 52241. Should you have any questions or would like additional information, please do not hesitate to contact me at the email address listed above or at (319) 259-6600.

Sincerely,

Megan Dusing, PWS

Project Manager

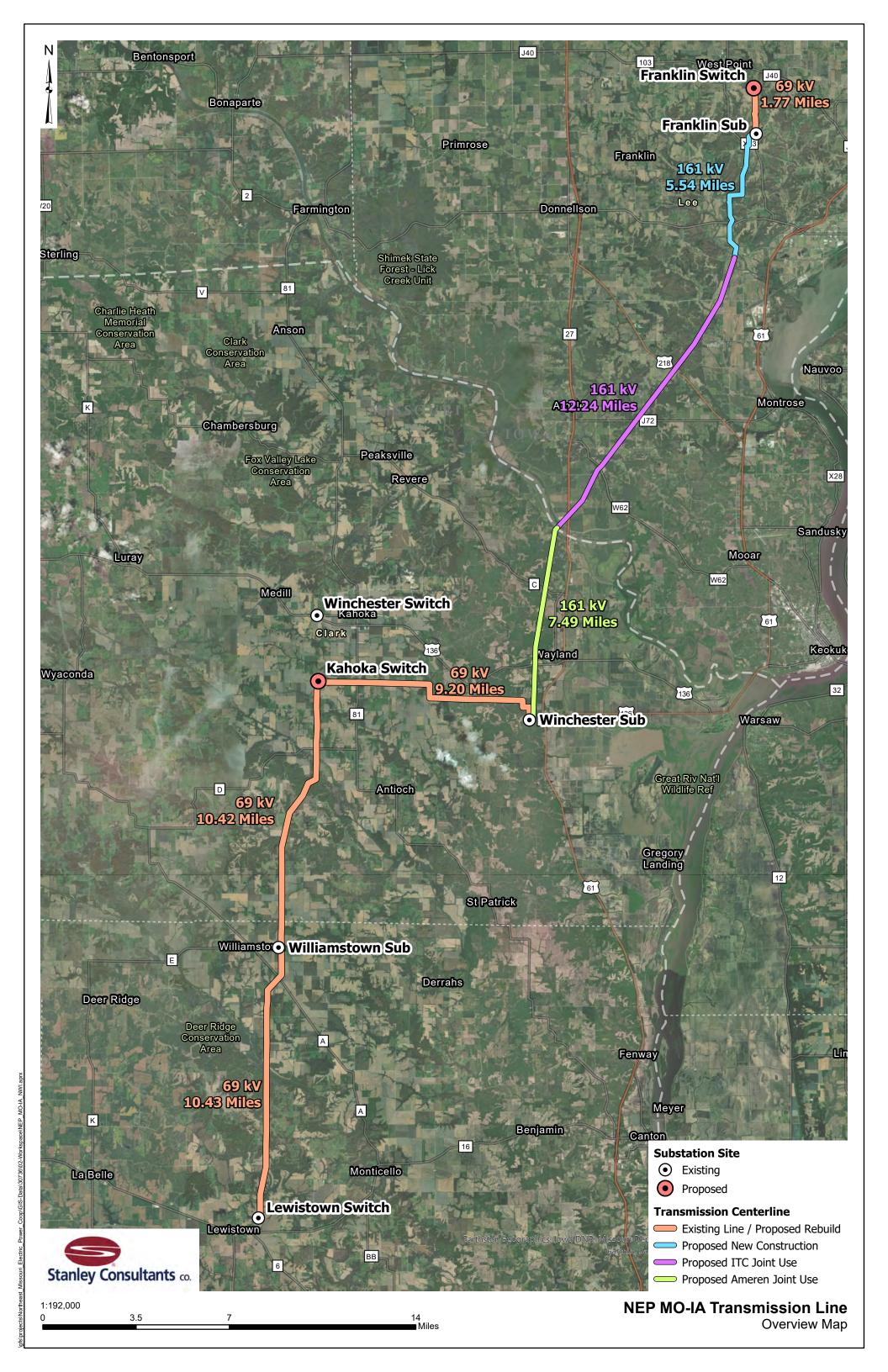
Stanley Consultants, Inc.

Enclosures: Project Figures and Overview Maps

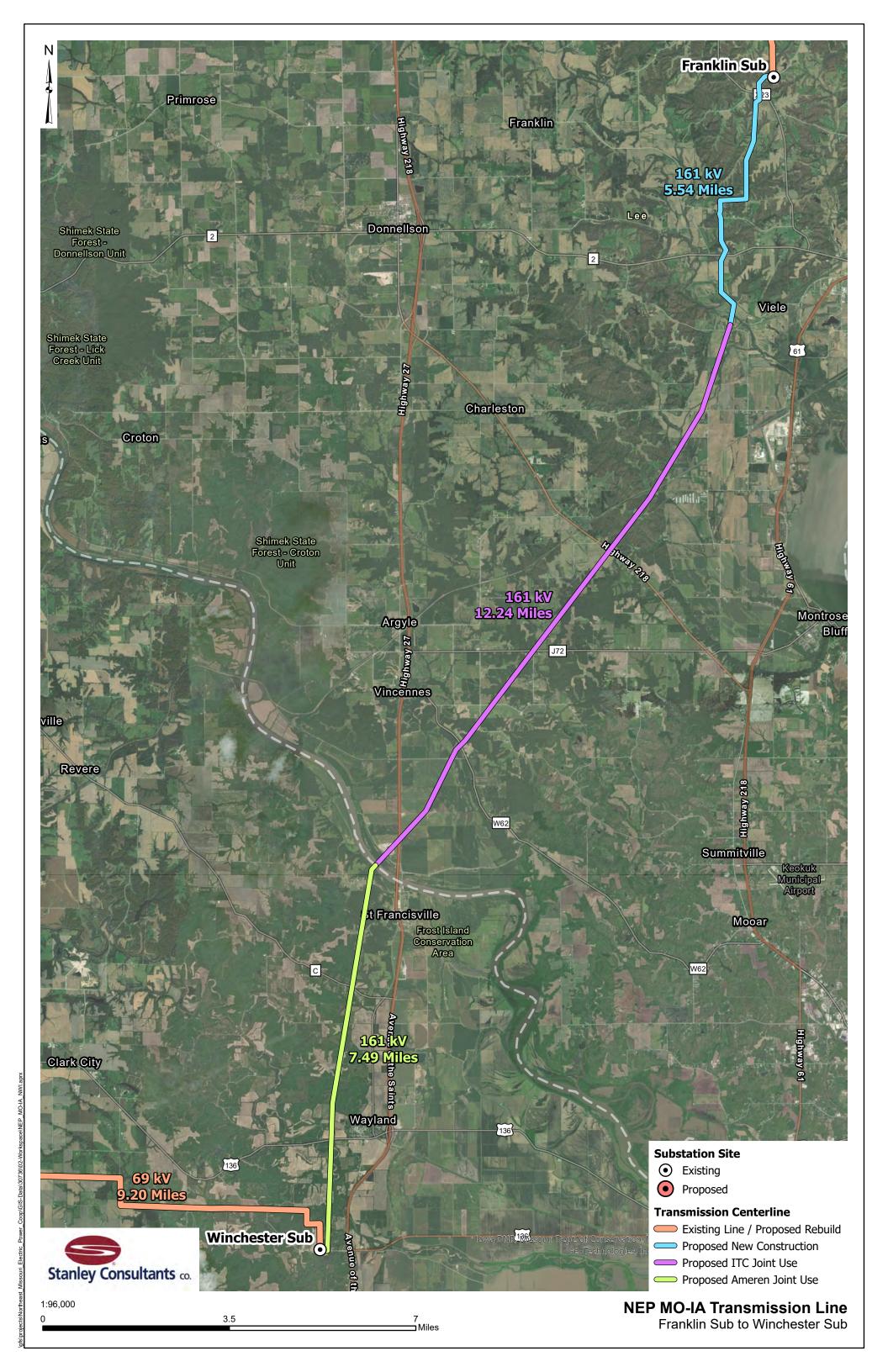


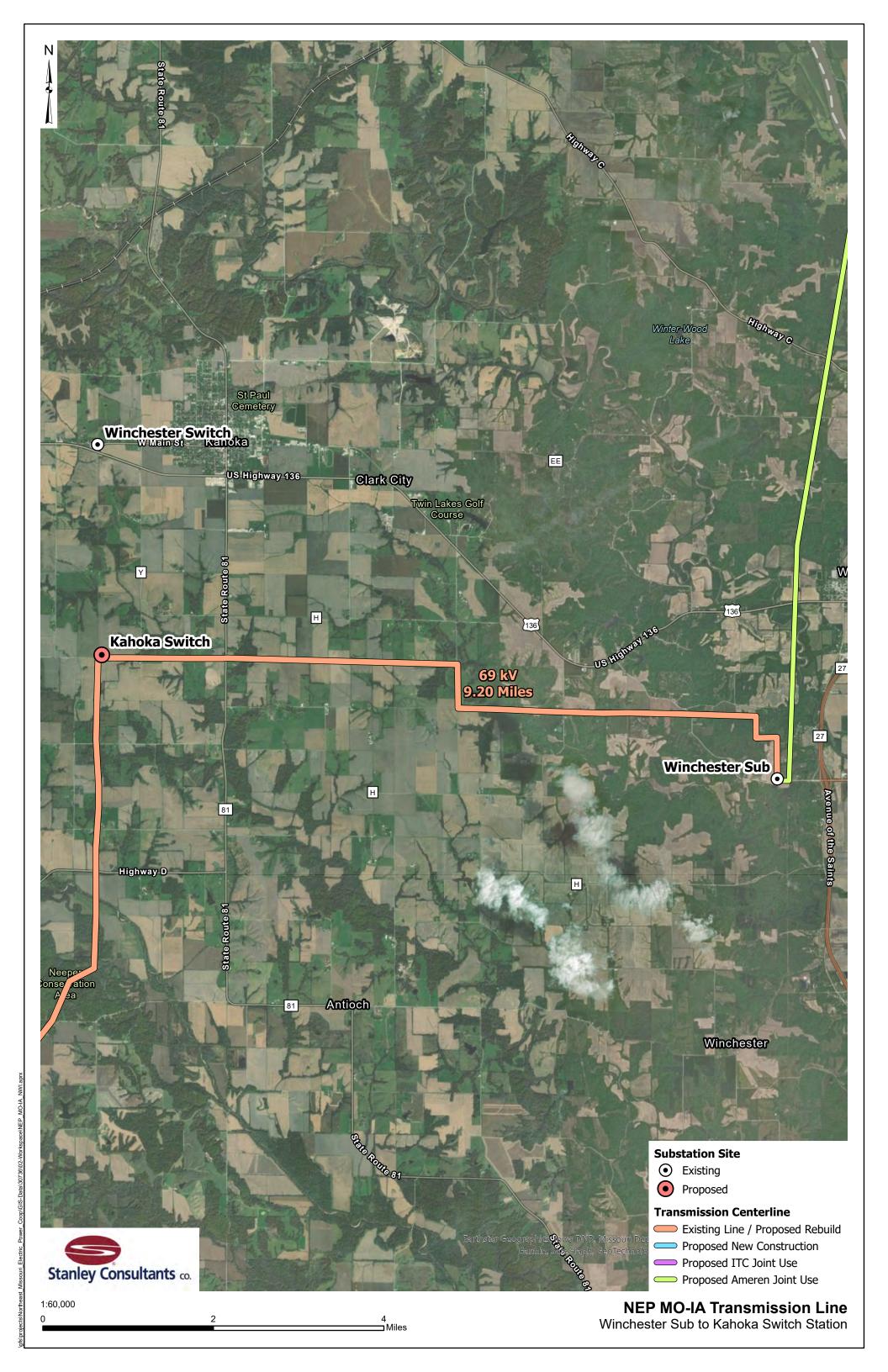


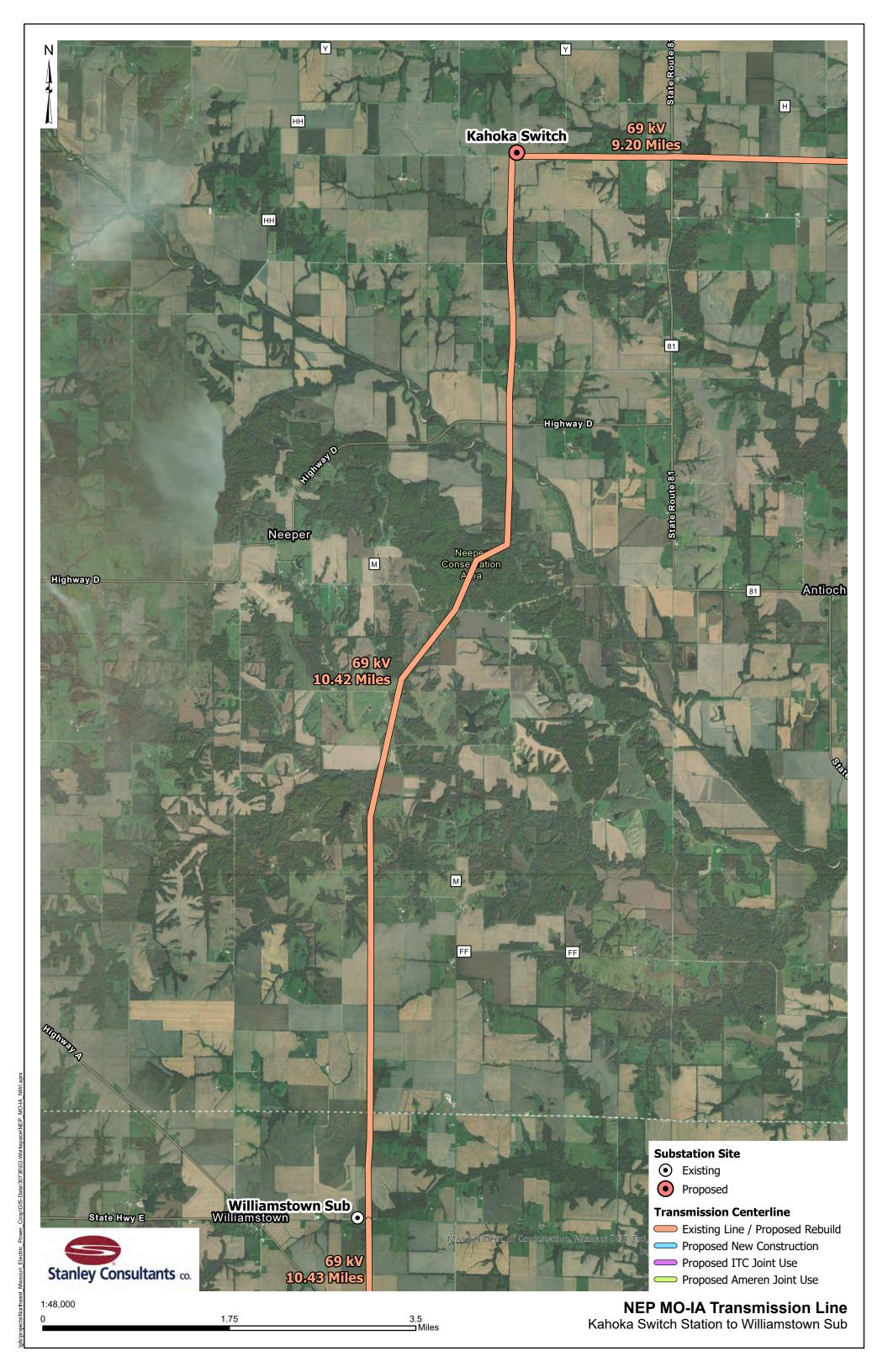
Project Figures

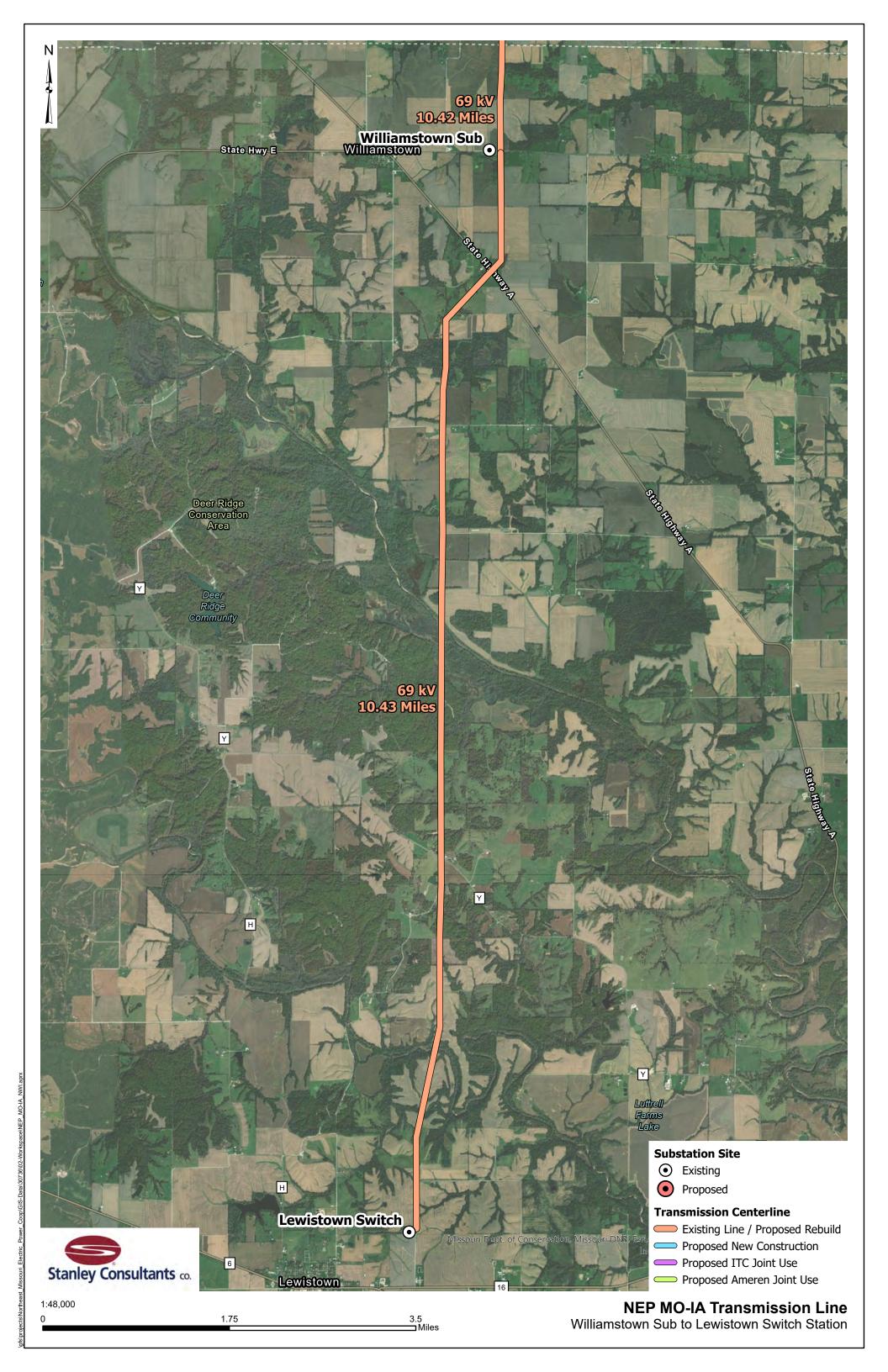














Missouri Department of Conservation Natural Heritage Review Report

February 22, 2023

Science Branch
P. O. Box 180
Jefferson City, MO 65102
Prepared by: Hannah Roos
NaturalHeritageReview@mdc.mo.gov
(573) 522 - 4115 ext. 3182

Megan Dusing
Stanley Consultants
DusingMegan@stanleygroup.com

NHR ERT ID:	12178	NHR ERT Level: 3					
Project type:	Utility – Above Ground Comm						
Location/Scope:	Lewis, Clark Co. MO; Lee Co. IA						
County:	Lewis, Clark Co. I	MO; Lee Co. IA					
Query reference:	NEP Missouri to I	owa Transmission Line					
Query received:	2/3/2023						

This NATURAL HERITAGE REVIEW is not a site clearance letter. Rather, it identifies public lands and records of sensitive resources located close to and/or potentially affected by the proposed project. If project plans or location change, this report may no longer be valid. Because land use conditions change and animals move, the existence of an occurrence record does not mean the species/habitat is still present. Therefore, reports include information about records near but not necessarily on the project site. Lack of an occurrence record does not mean that a sensitive species or natural community is not present on or near the project area. On-site verification is the responsibility of the project. These records serve as one reference and additional information (e.g. wetland or soils maps, on-site inspections or surveys) should be considered. Look for additional information about the biological and habitat needs of records listed to avoid or minimize impacts. More information is at Natural Areas | Missouri Department of Conservation (mo.qov) and Missouri Fish and Wildlife Information System (MOFWIS).

Level 3: Records of <u>federal-listed</u> (also state-listed) species or critical habitats near the project site:

Natural Heritage records indicate Indiana and Northern Long-eared bats occur within 1 mile of the project area.

► Indiana Bats and Northern Long-eared Bats: If this project has the potential to alter habitat (e.g. tree removal, projects in karst habitat) or cause direct mortality of bats, please coordinate directly with U.S. Fish and Wildlife Service (Ecological Services, 101 Park Deville Drive, Suite A, Columbia, Missouri 65203-0007; Phone 573-234-2132 Ext. 100 for Ecological Services) for further coordination under the Endangered Species Act.

Indiana and Northern Long-eared bats should be assumed present wherever habitat exists. Indiana Bats (Myotis sodalis, federal and state-listed endangered) and Northern Long-eared Bats (Myotis septentrionalis, federal-listed threatened) hibernate during winter months in caves and mines. During the summer months, they roost and raise young under the bark of trees in riparian forests and upland forests near perennial streams. During project activities, avoid degrading stream quality and where possible leave snags standing and preserve mature forest canopy. Do not enter caves known to harbor Indiana Bats and/or Northern Long-eared Bats, especially from September to April.

FEDERAL LIST species/habitats are protected under the Federal Endangered Species Act. Contact U.S. Fish & Wildlife Service (101 Park Deville Drive Suite A, Columbia, Missouri 65203-0007; 573-234-2132) for Endangered Species Act coordination and concurrence information).

Level 2: Records of <u>state-listed</u> (not federal-listed) endangered species AND / OR <u>state-ranked</u> (not state-listed endangered) species and natural communities of conservation concern. The Department tracks these species and natural communities due to population declines and/or apparent vulnerability.

Natural Heritage records identify no state-listed endangered species within the project area.

Natural Heritage records indicate the following state-ranked species near the project area:

Scientific Name	Common Name	State Rank	Proximity (miles)	Primary Habitat
Setophaga cerulea	Cerulean Warbler	S2S3	<1	Forest bottomland, Forest upland
Chelone obliqua	Rose Turtlehead	S2	<1	Forest bottomland, Wetland matrix
Myotis lucifugus	Little Brown Myotis	S2	<1	Forest matrix, Cave, Habitat generalist
Bombus fervidus	Yellow Bumblebee	S1	<2	Grassland matrix
Monarda punctata var. villicaulis	Horsemint	S3	<1	Grassland matrix
Oenothera clelandii	Evening Primrose	S2	<1	Grassland matrix
Perognathus flavescens	Plains Pocket Mouse	S1	<5	Grassland matrix
Cyperus schweinitzii	Schweinitz's Flatsedge	S3	<1	Grassland matrix, Moist edge/mudflat, Roadside/railroad
Poliocitellus franklinii	Franklin's Ground Squirrel	S2S3	<2	Grassland matrix, Roadside/railroad
Taxidea taxus	American Badger	S3	<1	Grassland matrix, Savanna pasture/orchard, Row/close grown crops
Mustela nivalis	Least Weasel	S3	<1	Grassland matrix, Savanna/Shrub/Woodland matrix, Marsh, Wet prairie/meadow
Pantherophis vulpinus	Eastern Foxsnake	S1	<2	Grassland matrix, Wet prairie/meadow
Speyeria idalia	Regal Fritillary	S3	<2	Grassland native prairie
Carex lacustris	Lake-bank Sedge	S2	<3	Grassland native prairie, Marsh
Mustela frenata	Long-tailed Weasel	S3	<3	Habitat generalist,
	MISS	ΟU	RI	Savanna/Shrub/Woodland matrix, Forest matrix, Grassland matrix
Porzana carolina	Sora	S2	<2	Marsh, Moist edge/mudflat
Ambystoma tigrinum	Eastern Tiger Salamander	S3	<1	Savanna/Shrub/Woodland matrix, Grassland matrix, Wetland matrix
Dryopteris cristata	Crested Fern	S1	<2	Spring/spring branch, Forest bottomland
Lysimachia thyrsiflora	Tufted Loosestrife	S1	<2	Swamp, Wet prairie/meadow, Fen/seep, Marsh

Clonophis kirtlandii	Kirtland's Snake	S1	<1	Wet prairie/meadow
Carex comosa	Bristly Sedge	S2	<1	Wetland matrix, Forest bottomland
Trillium nivale	Snow Trillium	S3	<1	Woodland

State Rank Definitions:

- S1: Critically imperiled in the state because of extreme rarity of or because of some factor(s) making it especially vulnerable to extirpation from the state. Typically, 5 or fewer occurrences or very few remaining individuals (<1,000).
- S2: Imperiled in the state because of rarity or because of some factor(s) making it very vulnerable to extirpation from the state (6 to 20 occurrences or few remaining individuals).
- S3: Vulnerable in the state either because rare and uncommon, or found only in a restricted range (even if abundant at some locations), or because of other factors making it vulnerable to extirpation. Typically 21 to 100 occurrences or between 3,000 and 10,000 individuals.
- S4: Uncommon but not rare, and usually widespread in the nation or state. Possible cause of long-term concern. Usually more than 100 occurrences and more than 10,000 individuals.
- S#S#: Range Rank: A numeric range rank (e.g., S2S3) is used to indicate the range of uncertainty about the exact status.
- ?: Denotes inexact or uncertain numeric rank.

There are no regulatory requirements associated with this status, however we encourage voluntary stewardship to minimize the risk of further decline that could lead to listing.

STATE ENDANGERED species are protected under the Wildlife Code of Missouri (3CSR10-4.111). See the 2022 Missouri Species and Communities of Conservation Concern Checklist for a complete list.

General recommendations related to this project or site, or based on information about the historic range of species (unrelated to any specific Natural Heritage records):

- Contact Area Manager: This project is within Deer Ridge and Neeper Conservation Areas. Please contact area manager, Ryan Kelly (573-754-6171 Ext.1802) to coordinate project activities at these areas.
- ➤ <u>Utility Lines:</u> Cross-country lines affect both plants and wildlife, as do activities necessary to their construction, maintenance and repair. Stream and drainage crossings are primary concerns, and every effort should be made to avoid erosion, silt introduction, petroleum or chemical pollution, and disruption or realignment of stream banks and beds. All wetlands should be avoided to the extent possible. Where wetlands cannot be avoided, project managers should minimize impacts and develop a mitigation plan to replace lost aquatic functions. See <u>Best Management Practices for Construction and Development Projects Affecting Missouri Rivers and Streams (mo.gov)</u> for best management recommendations for in-stream work.
 - During construction ground disturbance should be minimized. In areas where ground disturbance is necessary, best management practices for erosion control should be implemented to minimize negative impacts.
 - Revegetation is an important part of managing utility corridors, and it can have significant resource impacts – for better or worse. Revegetation of disturbed areas is recommended to minimize erosion, as is restoration with native plant species compatible with the local landscape and wildlife needs. Native shrubs (e.g. buttonbush, dogwood, willow) are a good option to stabilize streambanks, slow water velocities, and provide some wildlife habitat.

- Annuals like Rye Grass may be combined with native perennials for quicker green-up. Avoid aggressive exotic perennials such as crown vetch and sericea lespedeza.
- Maintenance of ground cover in utility corridors can have significant implications for sensitive
 resources. Native plant species typically require low maintenance over the long term and
 provide more benefits to native wildlife. Utility corridors can provide wildlife travel corridors,
 food sources and types of low-growing plant diversity sometimes rare in adjoining land.
 Mowing and maintenance schedules should consider nesting seasons, and diversity in plant
 composition. If herbicides will be used to control vegetation in the corridor after construction
 has been completed, best management practices should be implemented to avoid impacts to
 non-target plant species and to avoid impacts to all aquatic species.
- Conservation Opportunity Areas: A portion of this project is within Deer Ridge Conservation Opportunity Area. COAs are key landscapes that represent the greatest opportunities for sustainable conservation of the Missouri's diverse flora and fauna and the natural communities they depend upon, including: grasslands (including prairie and savanna), glades, forests and woodlands, wetlands, caves and karst, and rivers and streams. COAs have been identified based on several factors, including the diversity and rarity of species and natural communities present, and the comparative likelihood/importance of projects to maintain them in the area over time. COAs have no regulatory role, but do reflect interest as a planning tool from multiple government agencies, non-governmental organizations and citizen groups to facilitate conservation in the area. Maintenance of high quality natural terrestrial and aquatic communities will help provide important habitat for the COA's biodiversity. Funding might be available to manage for important habitats within the COA. Please visit Missouri Comprehensive Conservation Strategy MDC Tiered Approach to Natural Community and Habitat Management (arcgis.com) or contact Missouri Department of Conservation for more information.
- ▶ <u>Bald Eagles:</u> Bald Eagles (*Haliaeetus leucocephalus*) nest near streams or water bodies in the project area. Nests are large and fairly easy to identify. While no longer listed as endangered, eagles continue to be protected by the federal government under the Bald and Golden Eagle Protection Act. Work managers should be alert for nesting areas within 1500 meters of project activities, and follow federal guidelines at: Do I need an eagle take permit? | U.S. Fish & Wildlife Service (fws.gov) if eagle nests are seen.
- Invasive exotic species are a significant issue for fish, wildlife and agriculture in Missouri. Seeds, eggs, larvae, and aquatic plant material may be moved to new sites on boats or construction equipment, so inspect and clean equipment thoroughly before moving between project sites.
 - Remove any mud, soil, trash, plants (or plant material) or animals from equipment before leaving any water body or work area.
 - Drain water from boats and machinery that has operated in water, checking motor cavities, live-well, bilge and transom wells, tracks, buckets, and any other water reservoirs.
 - When possible, wash and rinse equipment thoroughly with hard spray or HOT water (≥140° F, typically available at do-it-yourself carwash sites), and dry in the hot sun before using again.

These recommendations are ones project managers might prudently consider based on a general understanding of species needs and landscape conditions. Natural Heritage records largely reflect sites visited by specialists in the last 30 years. Many privately owned tracts have not been surveyed and could host remnants of species once but no longer common.

2658 Crosspark Road Suite 100 Coralville, IA 52241

319.259.6658 stanleyconsultants.com



February 6, 2023

Eric Niemeyer USDA - NRCS Columbia, MO

SUBJECT: Northeast Missouri Electric Power Cooperative – Missouri to Iowa Transmission

Line Environmental Assessment

Dear Eric:

Northeast Missouri Electric Power Cooperative (NEP/Applicant) is in the process of performing an environmental assessment pursuant to the National Environmental Policy Act (NEPA) for the United States Department of Agriculture (USDA), Rural Development to assess the environmental impacts of a transmission line rebuild and construction project (Project). NEP has proposed to rebuild approximately 52 miles of transmission line to support a larger capacity, construct six miles of new transmission line, and conduct improvements at an existing substation to support higher voltages and additional transmission lines. This project stretches from Lewis County, Missouri, to Lee County, Iowa, and intends to obtain funding through the Rural Utility Services (RUS) Federal Grant Program.

The purpose of the Project is to provide the following benefits to the NEP transmission system:

- Provide additional transmission capacity in the Iowa portion of NEP's power system.
- Improve reliability in the area surrounding the project in both Iowa and Missouri portions of the system.
- Provide economic power to existing power by adequately meeting projected load from within the NEP system.

Approval of the proposed Project will result in the rebuild/ construction and operation of overhead electric transmission lines and distribution facilities. The majority of Project corridor would be rebuilt on existing utility easements, owned by NEP and others, to accommodate a new double-circuit line, with a small portion (approximately six miles) requiring easement acquisition and development of a new Right-of-Way and transmission line installation. Additionally, the Winchester Substation will be expanded.

The topography throughout the Project corridor varies, but generally consists of rills, ravines, intermittent and ephemeral creeks, and perennial streams and rivers in major valleys. Land uses within the project area, at lower elevations, is agricultural and residential development. Land use at higher elevations is predominately undeveloped deciduous forests with some residential development.

Project construction is expected take place over the course of several years as development of the route will be broken into sections. As stated, most of the Project is within existing utility right-of-way (ROW). Grading of the new utility easement will be minimized to the extent feasible and will focus on maintaining original contours. When possible, wetlands and other Waters of the United States (WOTUS) will be avoided and there will be minimal impacts when avoidance is not feasible.





The project involves several segments of transmission line and the Winchester Substation improvements. The attached figure, "NEP_MO-IA_Transmission_MapSeries.pdf," provides the geographical location of each section below:

- Franklin Tap to Franklin Substation, 1.77 miles of double circuit 69 kV line rebuild: this portion of the project will consist of rebuilding the existing Franklin Tap with single metal pole structures following the existing right-of-way.
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Upgrades to the Winchester Substation will consist of expanding the footprint of the existing substation and adding equipment necessary to accommodate the new and rebuilt transmission circuits. The expanded area around the existing substation will be graded to level, a copper grounding grid will be installed below the soil surface, and approximately 6 inches of crushed rock will be added across the site. Also, within the site,





various structure foundations will be installed to a depth of between five and ten feet. The site will be enclosed by a chain-link fence with posts installed directly in the ground.

Upon Completion of construction, operations at the substation sites are expected to generate 4-10 trips per year for maintenance and inspection. The transmission corridor will be visited at least once a year and vegetation management will be provided through manual upkeep. The planned operational life of the installed facilities is approximately 50 years.

We are requesting information on the possible effects of the proposal on important farmland and any recommendations you have to minimize or avoid these effects. We also seek your assessment of the compatibility of the proposal with state and local government or any private programs and policies to protect important farmland. The NRCS form AD-1006 is enclosed as well as the soils report for the Project corridor. To ensure compliance with the Farmland Protection Policy Act and to support the NEPA process, RUS requests that the USDA Natural Resources Conservation Service review the enclosed project-specific information and complete Parts II, IV, and V on the enclosed NRCS-CPA-106.

We request your review of this Project and ask that you provide information on any concerns, resources, or potential impacts that you believe the forthcoming Environmental Assessment should address. We would appreciate any recommendations you may have to mitigate or avoid environmental impacts. Also, please share any information regarding additional review requirements that your agency may have. We would appreciate a response within **30 days** of your receipt of this request.

Please submit your comments on this Project to me at <u>DusingMegan@stanleygroup.com</u>. You may also mail responses to me at 2658 Crosspark Road Suite 100, Coralville, Iowa, 52241. Should you have any questions or would like additional information, please do not hesitate to contact me at the email address listed above or at (319) 259-6600.

Sincerely,

Megan/Dusing, PWS

Project Manager

Stanley Consultants, Inc.

Enclosures: Form NRCS-CPA-106, Project Figures, Soils Report





Form NRCS-CPA-106

(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I (To be completed by Federal Agency)		Date of Land Evaluation Request Sheet 1 of							
1. Name of Project		5. Federal Agency Involved							
2. Type of Project			6. County and State						
PART II (To be completed by NRCS)			Date Request Received by NRCS			2. Person Completing Form			
Does the corridor contain prime, unique statewide or local important farmland (If no, the FPPA does not apply - Do not complete additional parts of this for			YES I I NO I I			Acres Irrigated Average Farm Size			
5. Major Crop(s)				nment Jurisdiction		7. Amount of Farmland As Defined in FPPA			
, , , ,		Acres:		%			Acres: %		
8. Name Of Land Evaluation System U	sed	9. Name of Local	Local Site Assessment System 10. Date Land Evaluation Returned b					turned by NRCS	
PART III (To be completed by Federal Agency)				Alternative Corridor For Seg Corridor A Corridor B			egment	Corridor D	
A. Total Acres To Be Converted Dire	ctly			OUTINOT A	0011	Idol B	COTTIGOT C	OGITIAGI B	
B. Total Acres To Be Converted Indi	rectly, Or To Receive S	Services							
C. Total Acres In Corridor									
PART IV (To be completed by N	RCS) Land Evaluati	on Information							
A. Total Acres Prime And Unique Fa	armland								
B. Total Acres Statewide And Local	Important Farmland								
C. Percentage Of Farmland in Cour	nty Or Local Govt. Unit	To Be Converted	d						
D. Percentage Of Farmland in Govt.	Jurisdiction With Same	Or Higher Relative	ve Value						
PART V (To be completed by NRCS	,		Relative						
value of Farmland to Be Serviced	•	<u> </u>							
PART VI (To be completed by Fed Assessment Criteria (These criteria	• • • • • • • • • • • • • • • • • • • •	I	/laximum Points						
1. Area in Nonurban Use	•	- ("	15						
2. Perimeter in Nonurban Use			10					_	
Percent Of Corridor Being Far	med		20						
4. Protection Provided By State			20						
5. Size of Present Farm Unit Cor			10						
6. Creation Of Nonfarmable Farr	nland		25						
7. Availablility Of Farm Support S	Services		5						
8. On-Farm Investments			20						
9. Effects Of Conversion On Far	m Support Services		25						
10. Compatibility With Existing Ag	gricultural Use		10						
TOTAL CORRIDOR ASSESSMI	ENT POINTS		160						
PART VII (To be completed by Fe	deral Agency)								
Relative Value Of Farmland (From	Part V)		100						
Total Corridor Assessment (From assessment)	Part VI above or a local	l site	160						
TOTAL POINTS (Total of above	2 lines)		260						
Corridor Selected:	2. Total Acres of Farm	nlands to be 3	. Date Of S	L Selection:	4. Was	A Local Sit	e Assessment Use	d?	
	Converted by Proje					7 (<u>2</u> 00a) 0 (.	
						YES [NO 🗌		
5. Reason For Selection:		111			1				
Signature of Person Completing this Part: Magan Dusing				DATE					
NOTE: Complete a form for ea	ach segment with r	nore than one	Alternat	e Corridor					



May 5, 2023

Megan Dusing, PWS, Principal Environmental Scientist STANLEYCONSULTANTS, 2658 Crosspark Road, Coralville, Iowa 52241

Dear Megan Dusing

Attached is a Farmland Conversion Impact Rating (form AD-1006) for the proposed Winchester Electric Substation Expansion in Clark County, Missouri. After you complete the form, please return one copy for our records.

Please note that if the Total Points (Parts V & VI) in Part VII exceeds 160, alternative sites should be considered. Two alternatives are required if the score is between 160-220, and three alternatives are required if the score is over 220.

Review of the remainder of the project: Areas where the electric distribution facilities or lines are constructed within road and highway rights of ways are determined "previously converted" to non-agricultural uses. Areas where the poles and guy wires are installed in cultivated fields and pastures will have only a minor impact on the conversion of important farmlands.

If you have any questions, please call me at (573) 769-2235 Ext. # 133.

Sincerely,

Scott Larsen

Area Resource Soil Scientist

Attachment

cc: Brandy Franklin, DC, NRCS, Kahoka, MO

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

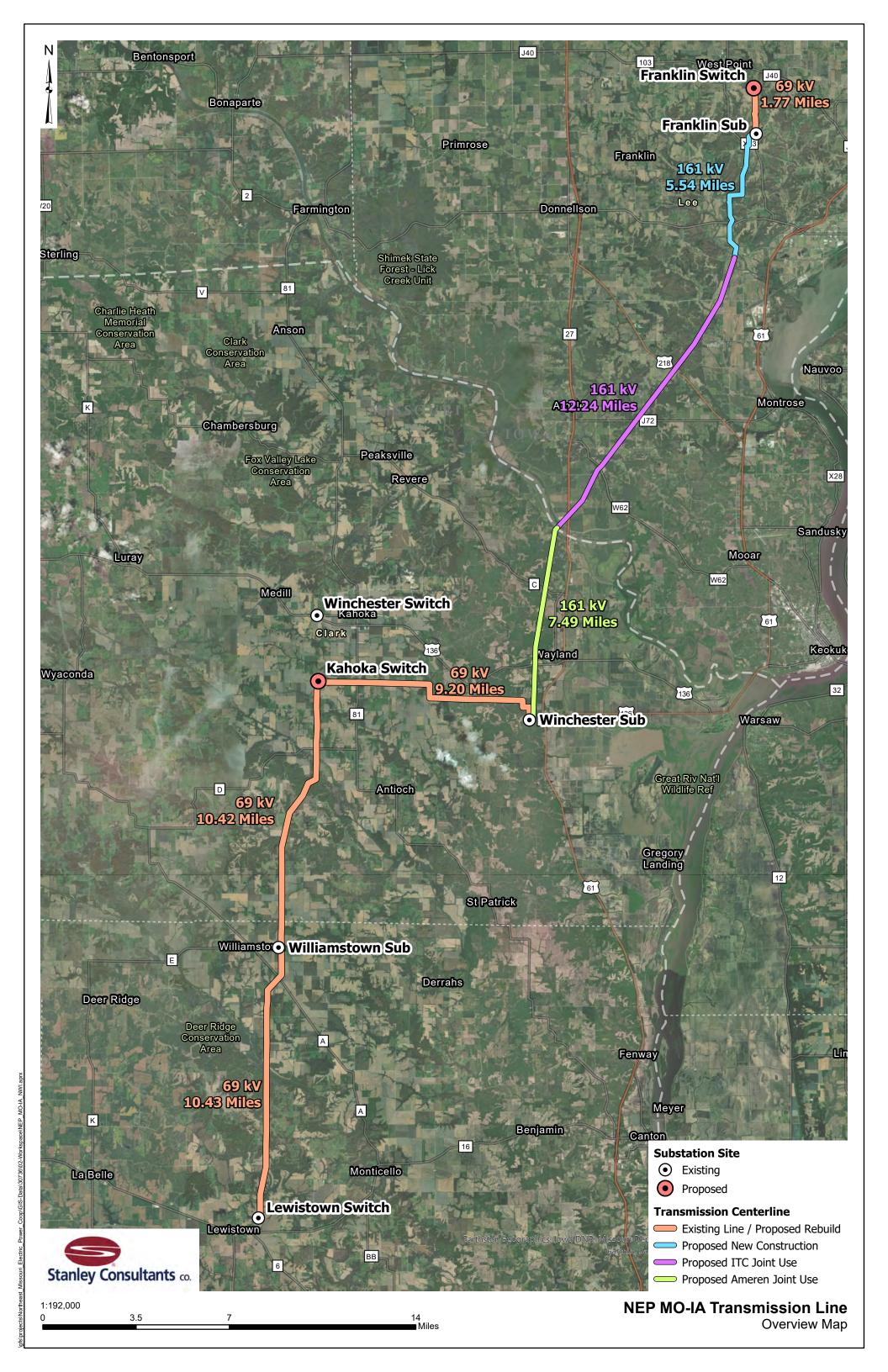
PART I (To be completed by Federal Agency)			Date Of Land Evaluation Request					
Name Of Project	Federal Ag	Federal Agency Involved						
Proposed Land Use	County And State							
PART II (To be completed by NRCS)	Date Request Received By NRCS							
Does the site contain prime, unique, statewide	armland?	Yes N	o Acres Irrigate	ed Average Farm	n Size			
(If no, the FPPA does not apply do not com		···········						
Major Crop(s) Farmable Lan		Govt. Jurisdiction		Amount Of F	armland As Defin	nland As Defined in FPPA		
	Acres:		%	Acres:	Acres: %			
Name Of Land Evaluation System Used Name Of Local Site Assess			essment System Date Land Evaluation Returned By NRC			d By NRCS		
PART III (To be completed by Federal Agency)				Alternative	Site Rating			
			Site A	Site B	Site C	Site D		
A. Total Acres To Be Converted Directly						-		
B. Total Acres To Be Converted Indirectly								
C. Total Acres In Site								
PART IV (To be completed by NRCS) Land Eva	luation Information							
A. Total Acres Prime And Unique Farmland								
B. Total Acres Statewide And Local Importan								
C. Percentage Of Farmland In County Or Loc								
D. Percentage Of Farmland In Govt. Jurisdiction W		elative Value						
PART V (To be completed by NRCS) Land Eval Relative Value Of Farmland To Be Conve		100 Points)						
PART VI (To be completed by Federal Agency) Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b)		Maximum Points						
1. Area In Nonurban Use								
Perimeter In Nonurban Use								
Percent Of Site Being Farmed								
4. Protection Provided By State And Local Go	overnment							
5. Distance From Urban Builtup Area								
6. Distance To Urban Support Services								
7. Size Of Present Farm Unit Compared To A	verage							
8. Creation Of Nonfarmable Farmland								
9. Availability Of Farm Support Services								
10. On-Farm Investments								
11. Effects Of Conversion On Farm Support S12. Compatibility With Existing Agricultural Use								
	100							
TOTAL SITE ASSESSMENT POINTS	160							
PART VII (To be completed by Federal Agency)								
Relative Value Of Farmland (From Part V)	100							
Total Site Assessment (From Part VI above or a local site assessment)		160						
TOTAL POINTS (Total of above 2 lines)	260							
Site Selected: Date Of Selection				Was A Local Sit Ye	e Assessment Us	ed?		
Date Of Selection				ı re	o	,U		

Reason For Selection:

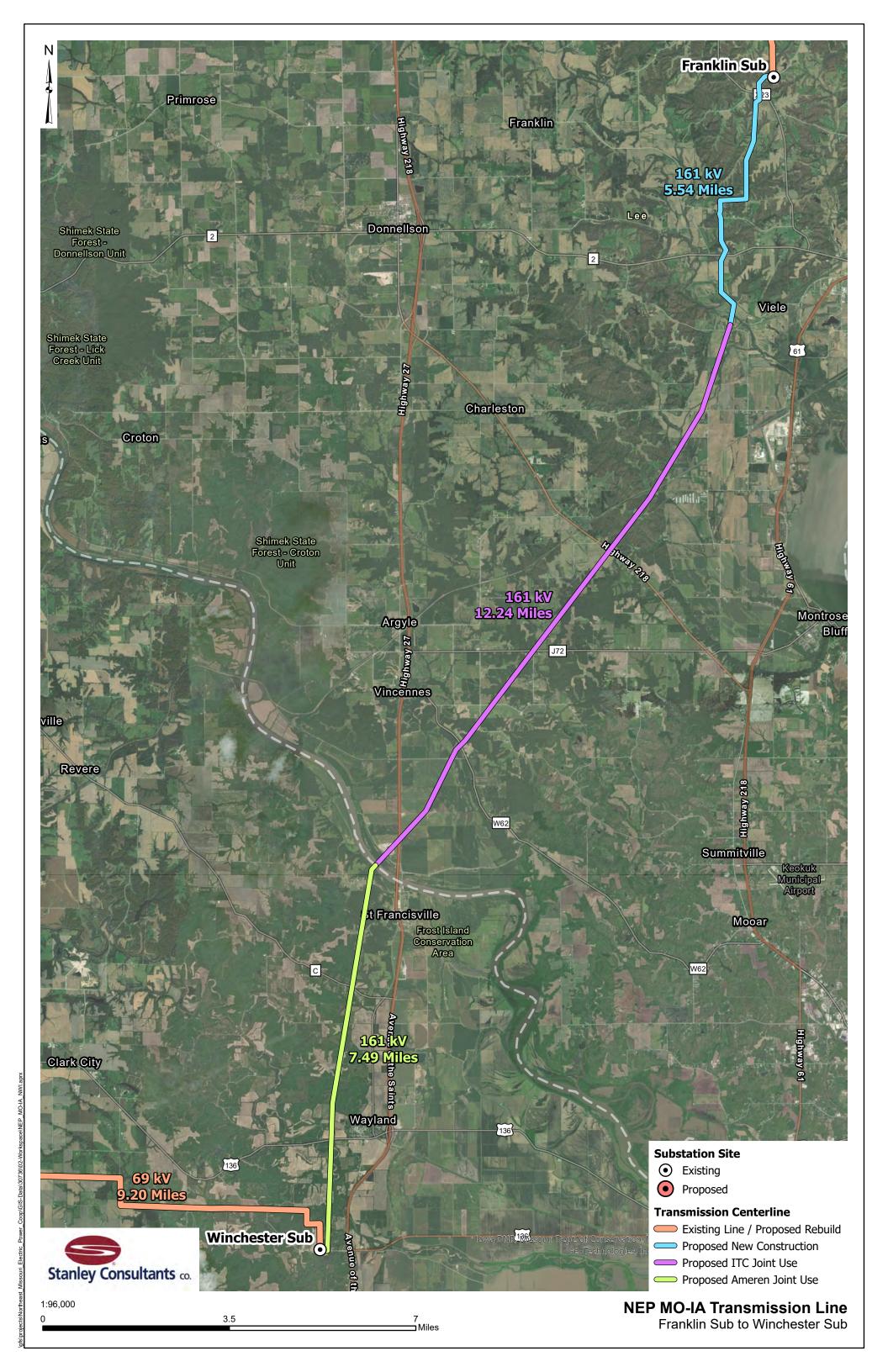


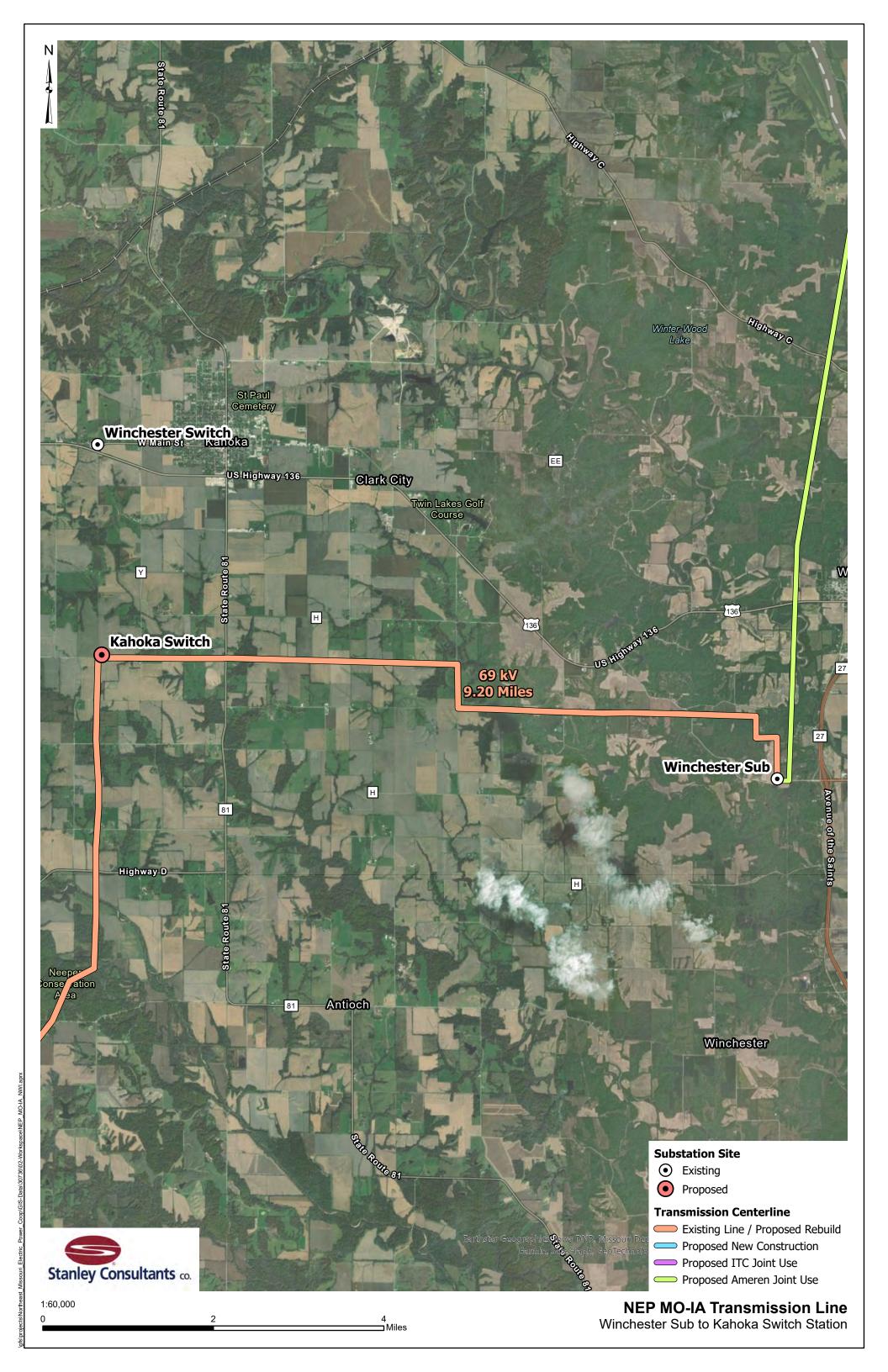


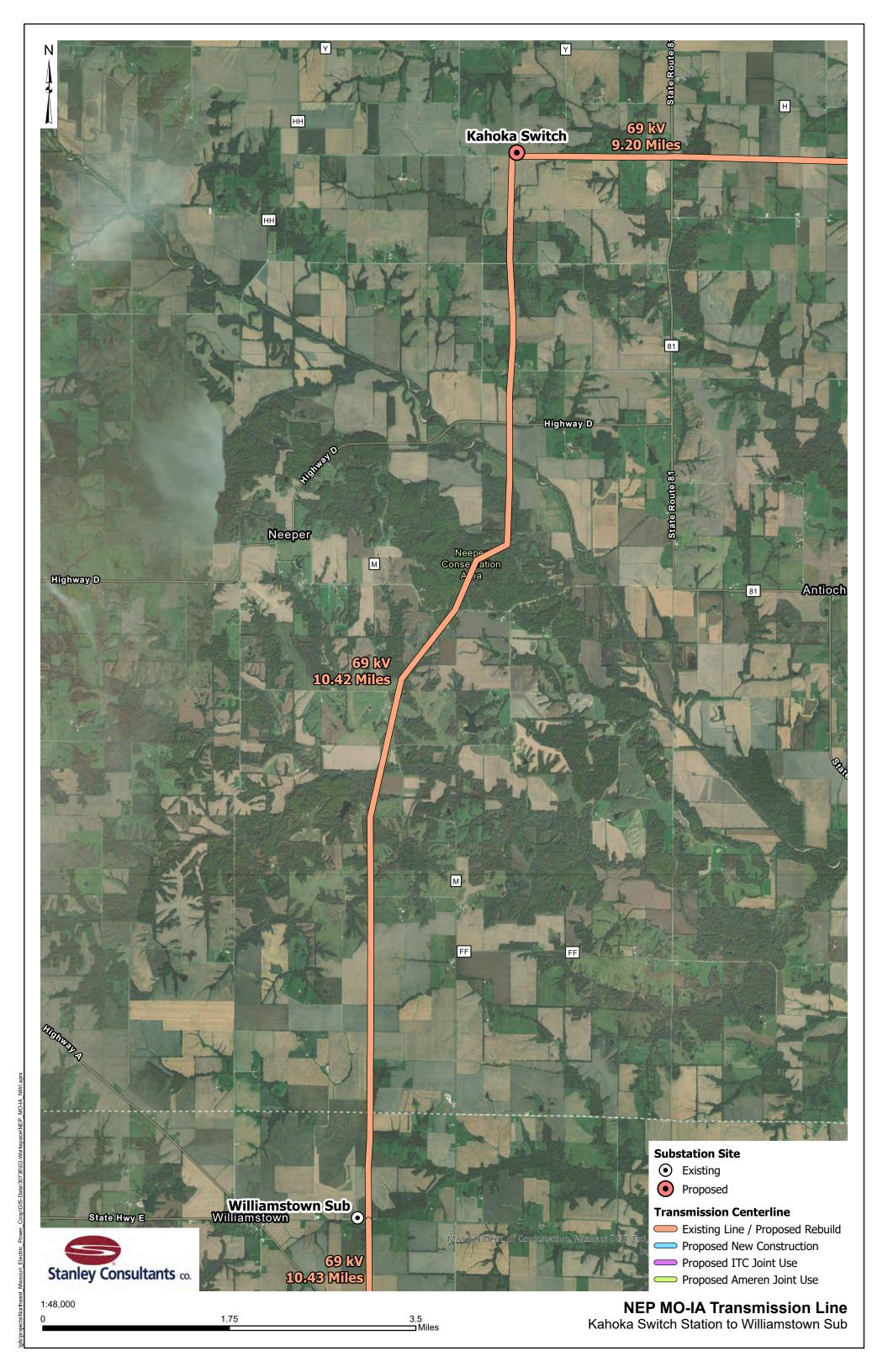
Project Figures

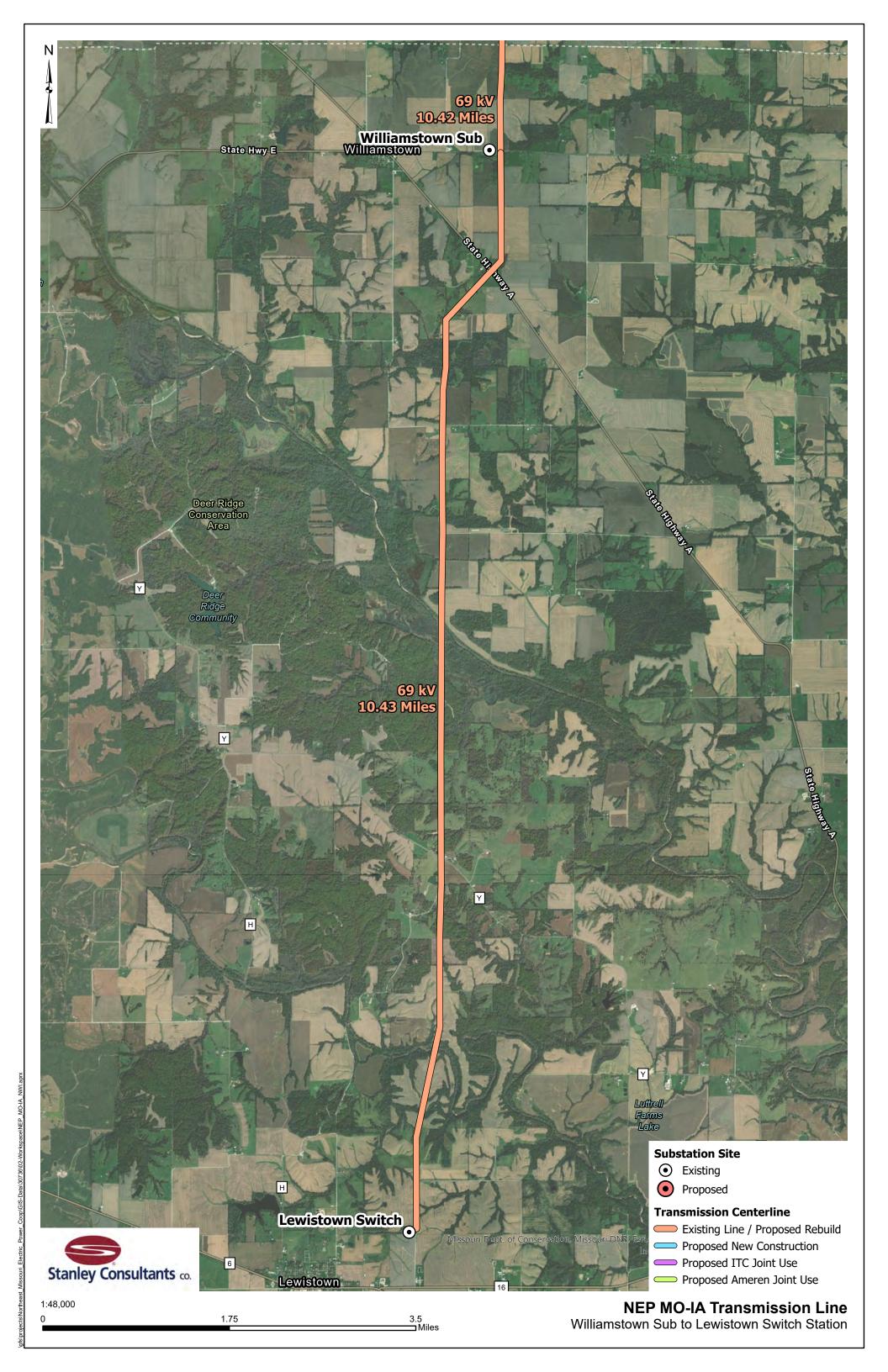
















Soils Report

2658 Crosspark Road Suite 100 Coralville, IA 52241

319.259.6658 stanleyconsultants.com



January 30, 2023

Jim Kelley
Project Manager
Eastern Branch
Regulatory Division
Rock Island District Corps of Engineers
P.O. Box 2004
Rock Island, IL 61204-2004

SUBJECT: Northeast Missouri Electric Power Cooperative – Missouri to Iowa Transmission Line Environmental Assessment

Dear Jim:

Northeast Missouri Electric Power Cooperative (NEP/Applicant) is in the process of performing an environmental assessment pursuant to the National Environmental Policy Act (NEPA) for the United States Department of Agriculture (USDA), Rural Development to assess the environmental impacts of a transmission line rebuild and construction project (Project). NEP has proposed to rebuild approximately 52 miles of transmission line to support a larger capacity, construct six miles of new transmission line, and conduct improvements at an existing substation to support higher voltages and additional transmission lines. This project stretches from Lewis County, Missouri, to Lee County, Iowa, and intends to obtain funding through the Rural Utility Services (RUS) Federal Grant Program.

The purpose of the Project is to provide the following benefits to the NEP transmission system:

- Provide additional transmission capacity in the Iowa portion of NEP's power system.
- Improve reliability in the area surrounding the project in both Iowa and Missouri portions of the system.
- Provide economic power to existing power by adequately meeting projected load from within the NEP system.

Approval of the proposed Project will result in the rebuild/ construction and operation of overhead electric transmission lines and distribution facilities. The majority of Project corridor would be rebuilt on existing utility easements, owned by NEP and others, to accommodate a new double-circuit line, with a small portion (approximately six miles) requiring easement acquisition and development of a new Right-of-Way and transmission line installation. Additionally, the Winchester Substation will be expanded.

The topography throughout the Project corridor varies, but generally consists of rills, ravines, intermittent and ephemeral creeks, and perennial streams and rivers in major valleys. Land uses within the project area, at lower elevations, is agricultural and residential development. Land use at higher elevations is predominately undeveloped deciduous forests with some residential development.





Project construction is expected take place over the course of several years as development of the route will be broken into sections. As stated, most of the Project is within existing utility right-of-way (ROW). Grading of the new utility easement will be minimized to the extent feasible and will focus on maintaining original contours. When possible, wetlands and other Waters of the United States (WOTUS) will be avoided and there will be minimal impacts when avoidance is not feasible.

The project involves several segments of transmission line and the Winchester Substation improvements. The attached figure, "NEP_MO-IA_Transmission_MapSeries.pdf," provides the geographical location of each section below:

- Franklin Tap to Franklin Substation, 1.77 miles of double circuit 69 kV line rebuild: this portion of the project will consist of rebuilding the existing Franklin Tap with single metal pole structures following the existing right-of-way.
- Franklin Sub to Winchester Substation, 25.27 miles of 161 kV (operated at 69 kV) new line construction as single circuit new line and double circuit with existing ITC/Ameren 161 kV transmission line: this portion of the project will tie the existing Winchester Substation with the existing Franklin Substation. The new NEP line will be a single circuit line (5.54 miles) to connect with an existing ITC/Ameren 161 kV transmission line and create a double circuit with the existing ITC (Iowa, 12.24 miles) and Ameren (Missouri, 7.49 miles) 161 kV following the existing ITC/Ameren right-of-way using single metal pole structures.
- Winchester 69 kV to 12.47 kV Substation Improvements: this portion of the project will involve upgrading the Winchester Substation to accommodate the new Franklin Sub to Winchester Subtransmission line and the rebuild Winchester Tap (below).
- Winchester Tap to Winchester Substation, 9.20 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Winchester Tap with single metal pole structures following the existing right-of-way.
- Winchester Tap to Williamstown Tap, 10.42 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Winchester Tap to Williamstown Tap with single metal pole structures following the existing right-of-way.
- Williamstown Tap to Lewistown Switch Station: 10.43 miles of 161 kV (operated at 69 kV) line rebuild: this portion of the project will consist of rebuilding the existing Williamstown Tap to Lewistown Switch Station with single metal pole structures following the existing right-of-way.

The above transmissions line will generally use 60 to 80 foot tall single-pole steel structures with spacing of generally 250 - 400 feet apart. Structures will be direct embedded 10 - 20 feet deep in drilled holes approximately 3 - 4 feet in diameter. Holes will be back filled with rock and any spoils removed and surrounding disturbance restored to original condition. At certain locations on the route, down-guys and anchors will be used to support the line. Anchors will have helical fins and will be installed by rotating the helical fins into the ground. In addition to direct embed steel poles, engineered laminated wood structures will also be utilized and directed buried in a similar manner to direct embed steel poles. Self-supporting steel structures may be used on the project. These structures will require a drilled pier concrete foundation, the size of which is anticipated to be 3-5 feet in diameter and 10-15 feet deep. Installed pole will generally have a height of 60 - 75 feet and will be supporting electrical transmission conductor.

Upgrades to the Winchester Substation will consist of expanding the footprint of the existing substation and adding equipment necessary to accommodate the new and rebuilt transmission circuits. The expanded area





around the existing substation will be graded to level, a copper grounding grid will be installed below the soil surface, and approximately 6 inches of crushed rock will be added across the site. Also, within the site, various structure foundations will be installed to a depth of between five and ten feet. The site will be enclosed by a chain-link fence with posts installed directly in the ground.

Upon Completion of construction, operations at the substation sites are expected to generate 4-10 trips per year for maintenance and inspection. The transmission corridor will be visited at least once a year and vegetation management will be provided through manual upkeep. The planned operational life of the installed facilities is approximately 50 years.

In anticipation of permit requirements pursuant to Section 404 of the Clean Water Act, Applicant's consultant will prepare a preliminary wetland determination of the Project corridor using available desktop information. This documentation will be submitted to the USACE Rock Island District for review and concurrence.

We request your review of this Project and ask that you provide information on any concerns, resources, or potential impacts that you believe the forthcoming Environmental Assessment should address. We would appreciate any recommendations you may have to mitigate or avoid environmental impacts. Also, please share any information regarding additional review requirements that your agency may have. We would appreciate a response within 30 days of your receipt of this request.

Please submit your comments on this Project to me at <u>DusingMegan@stanleygroup.com</u>. You may also mail responses to me at 2658 Crosspark Road Suite 100, Coralville, Iowa, 52241. Should you have any questions or would like additional information, please do not hesitate to contact me at the email address listed above or at (319) 259-6600.

Sincerely,

Megan Dusing, PWS

Project Manager

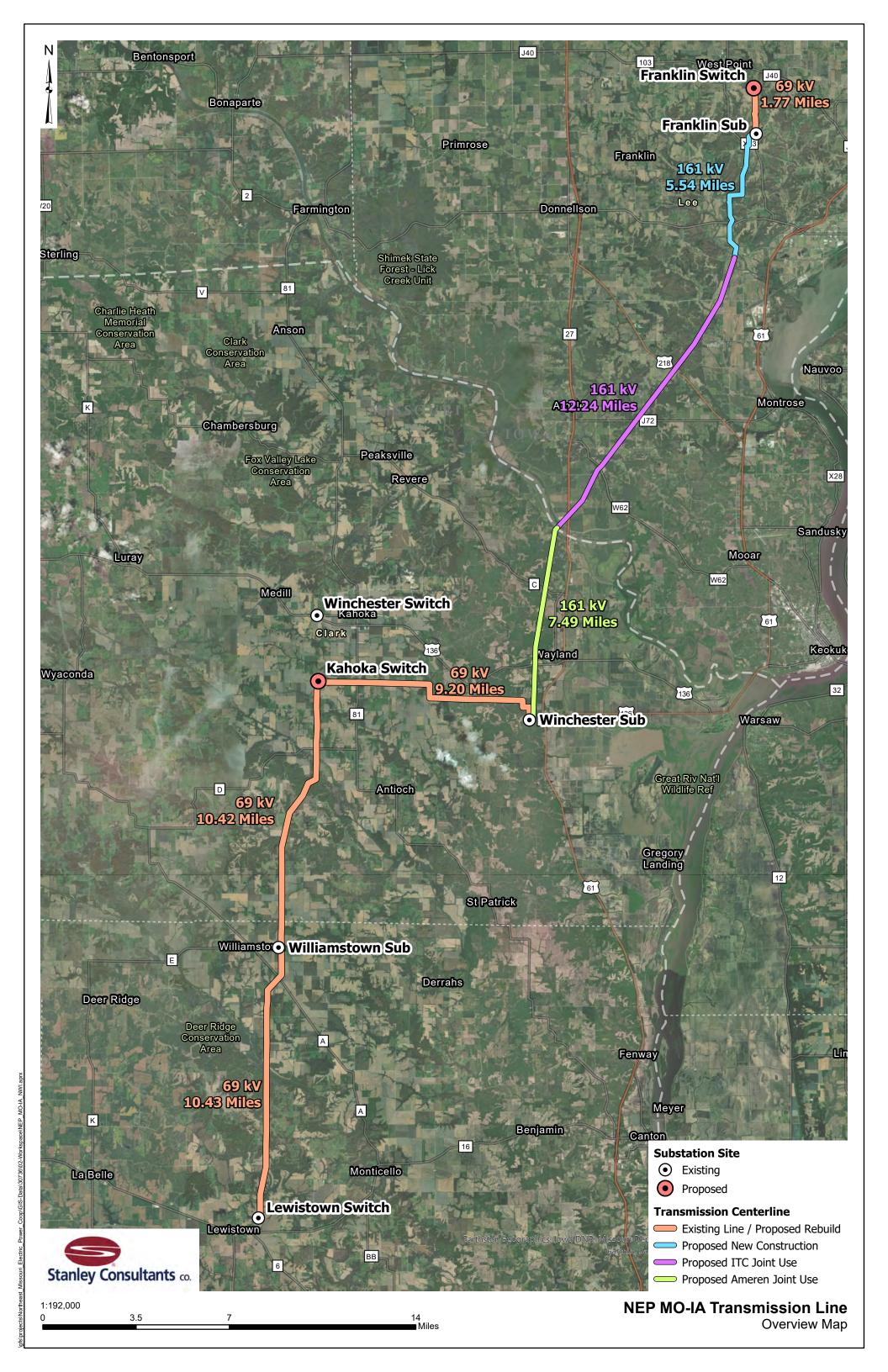
Stanley Consultants, Inc.

Enclosures: Project Figures and Overview Maps

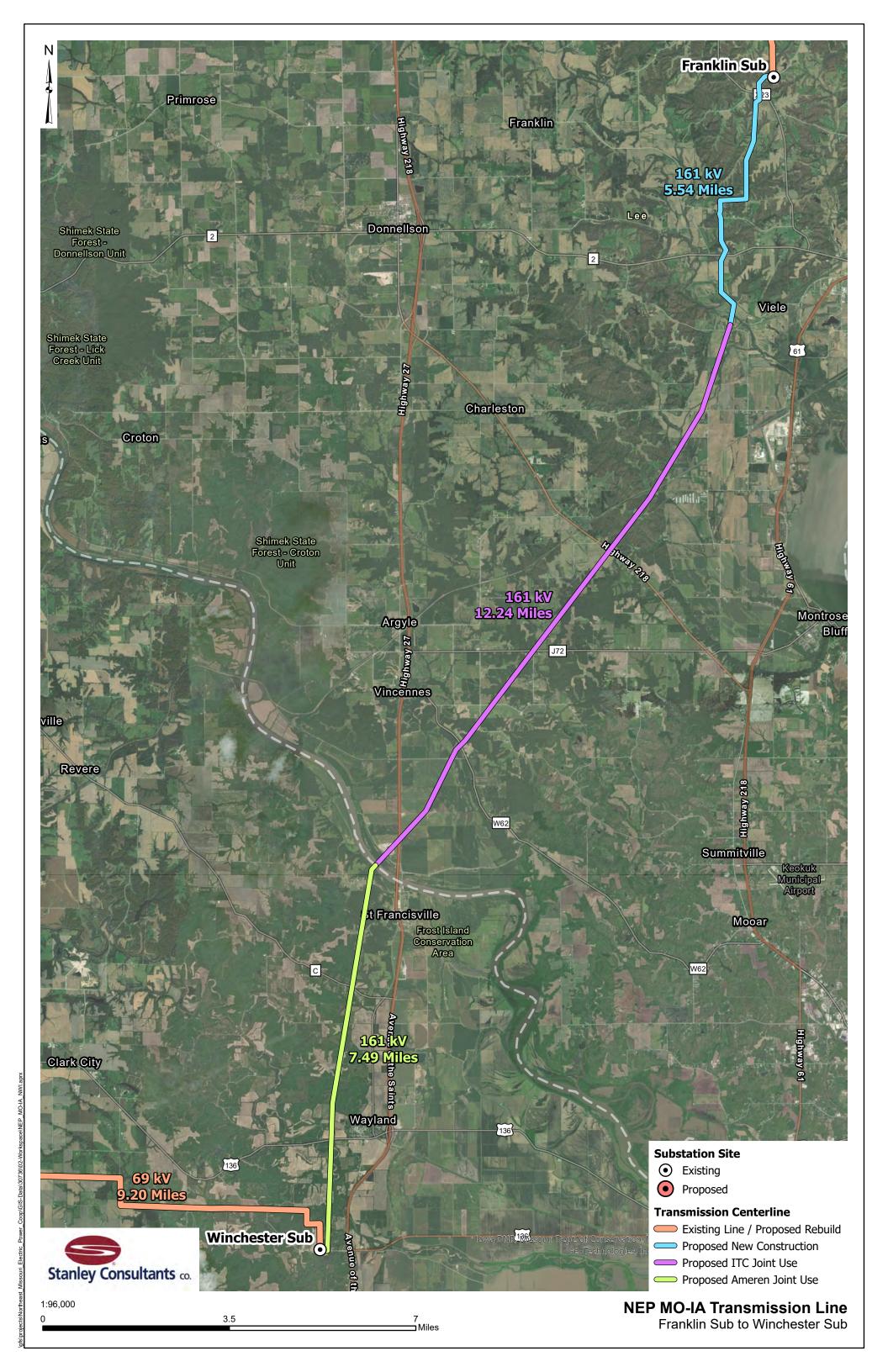


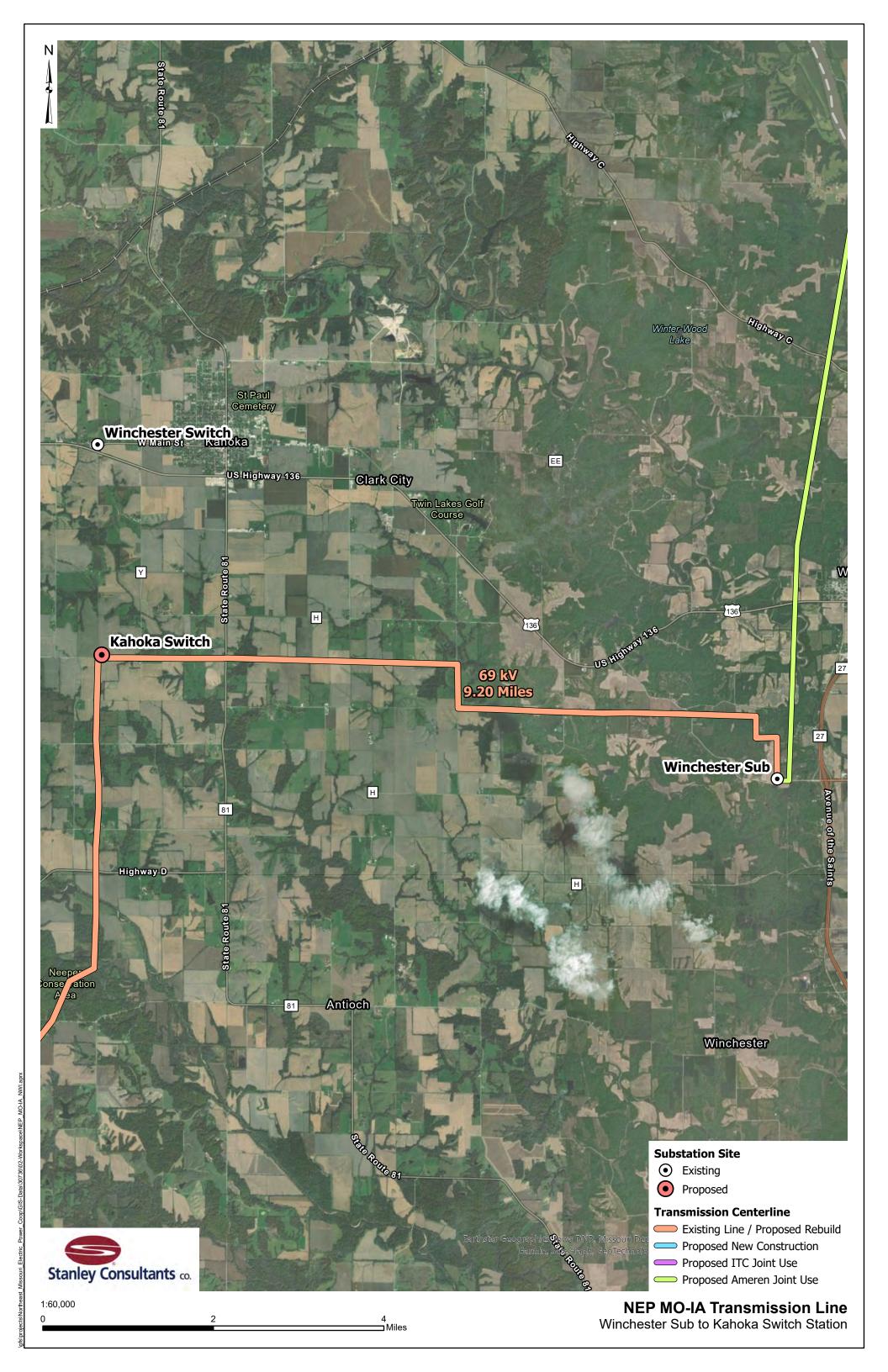


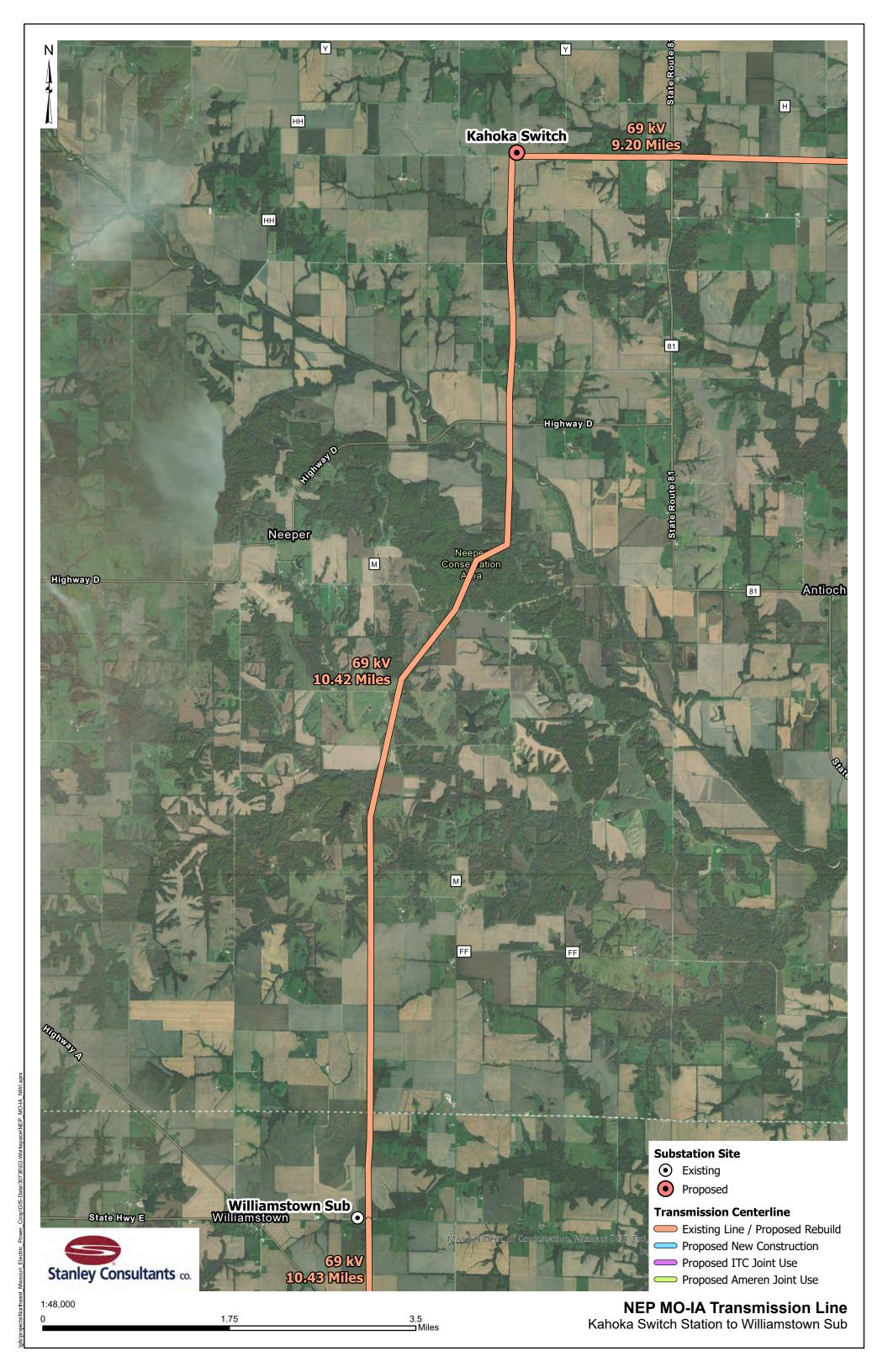
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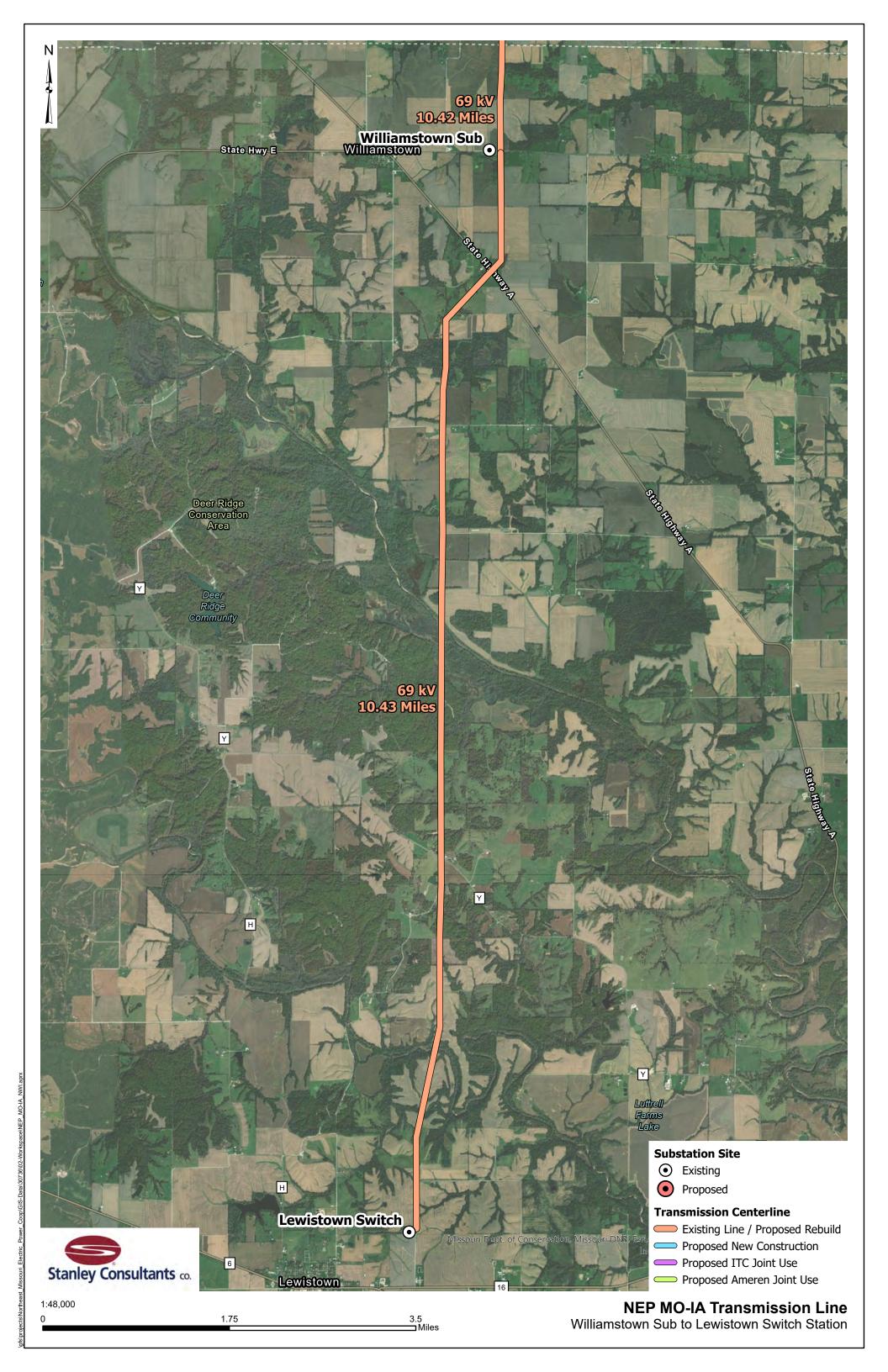












January 19, 2023

Kraig McPeek Field Office Supervisor US Fish and Wildlife Service Illinois & Iowa ES Field Office 1511 47th Avenue Moline, IL 61265

SUBJECT: Northeast Missouri Electric Power Cooperative – Missouri to Iowa Transmission Line Environmental Assessment

Dear Kraig:

Northeast Missouri Electric Power Cooperative (NEP/Applicant) is in the process of performing an environmental assessment pursuant to the National Environmental Policy Act (NEPA) for the United States Department of Agriculture (USDA), Rural Development to assess the environmental impacts of a transmission line rebuild and construction project (Project). NEP has proposed to rebuild approximately 52 miles of transmission line to support a larger capacity, construct six miles of new transmission line, and conduct improvements at an existing substation to support higher voltages and additional transmission lines. This project stretches from Lewis County, Missouri, to Lee County, Iowa, and intends to obtain funding through the Rural Utility Services (RUS) Federal Grant Program.

The purpose of the Project is to provide the following benefits to the NEP transmission system:

- Provide additional transmission capacity in the Iowa portion of NEP's power system.
- Improve reliability in the area surrounding the project in both Iowa and Missouri portions of the system.
- Provide economic power to existing power by adequately meeting projected load from within the NEP system.

Approval of the proposed Project will result in the rebuild/ construction and operation of overhead electric transmission lines and distribution facilities. The majority of Project corridor would be rebuilt on existing utility easements, owned by NEP and others, to accommodate a new double-circuit line, with a small portion (approximately six miles) requiring easement acquisition and development of a new Right-of-Way and transmission line installation. Additionally, the Winchester Substation will be expanded.

The topography throughout the Project corridor varies, but generally consists of rills, ravines, intermittent and ephemeral creeks, and perennial streams and rivers in major valleys. Land uses within the project area, at lower elevations, is agricultural and residential development. Land use at higher elevations is predominately undeveloped deciduous forests with some residential development.

Project construction is expected take place over the course of several years as development of the route will be broken into sections. As stated, most of the Project is within existing utility right-of-way (ROW). Grading of the new utility easement will be minimized to the extent feasible and will focus on maintaining original contours. When possible, wetlands and other Waters of the United States (WOTUS) will be avoided and there will be minimal impacts when avoidance is not feasible.

The project involves several segments of transmission line and the Winchester Substation improvements. The attached figure, "NEP_MO-IA_Transmission_MapSeries.pdf," provides the geographical location of each section below:

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Upgrades to the Winchester Substation will consist of expanding the footprint of the existing substation and adding equipment necessary to accommodate the new and rebuilt transmission circuits. The expanded area around the existing substation will be graded to level, a copper grounding grid will be installed below the soil surface, and approximately 6 inches of crushed rock will be added across the site. Also, within the site, various structure foundations will be installed to a depth of between five and ten feet. The site will be enclosed by a chain-link fence with posts installed directly in the ground.

Upon Completion of construction, operations at the substation sites are expected to generate 4-10 trips per year for maintenance and inspection. The transmission corridor will be visited at least once a year and vegetation management will be provided through manual upkeep. The planned operational life of the installed facilities is approximately 50 years.

To initiate the process, Rural Development has asked that information regarding Federally listed species, critical habitat, and migratory birds be obtained from your office. Rural Development, as the lead Federal agency, is responsible for compliance with Section 7(a)(2) of the Endangered Species Act and will provide determinations of effect as appropriate during the consultation process. Please note that other applicable regulatory agencies will be contacted for their review of this project. The proposal should not represent a "major construction activity" as defined in 50 CFR 402.02. We request a list of any Federally listed or proposed threatened or endangered species and designated or proposed critical habitat that may be present in the Project corridor. In addition, please advise of present concerns you

may have related to possible effects of the proposed Project on such species or critical habitat, as well as any other wildlife concerns.

We request your review of this Project and ask that you provide information on any concerns, resources, or potential impacts that you believe the forthcoming Environmental Assessment should address. We would appreciate any recommendations you may have to mitigate or avoid environmental impacts. Also, please share any information regarding additional review requirements that your agency may have. We would appreciate a response within **30 days** of your receipt of this request.

Please submit your comments on this Project to me at DusingMegan@stanleygroup.com. You may also mail responses to me at 2658 Crosspark Road Suite 100, Coralville, Iowa, 52241. Should you have any questions or would like additional information, please do not hesitate to contact me at the email address listed above or at (319) 259-6600.

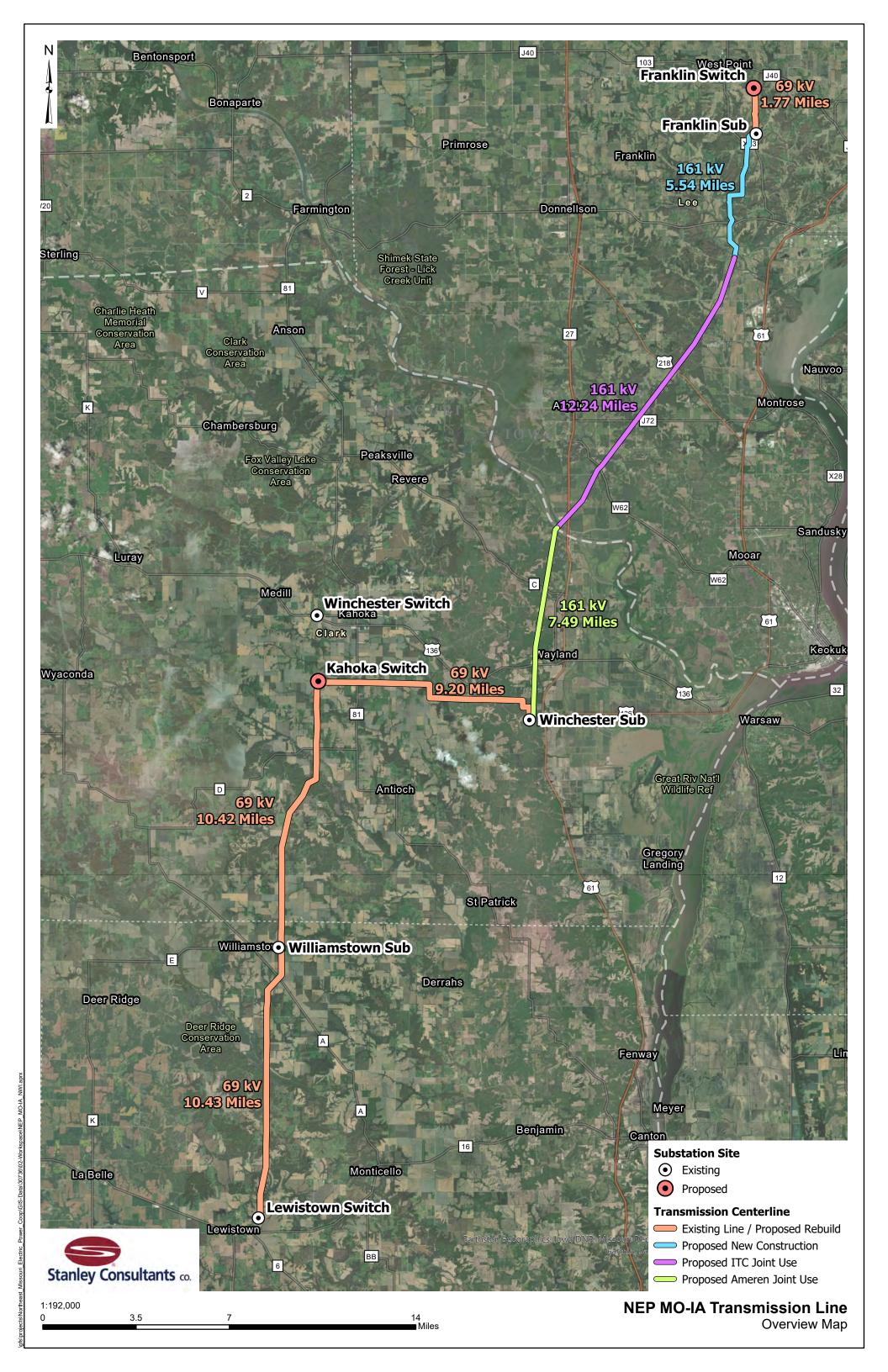
Sincerely,

Megan Dusing, PWS

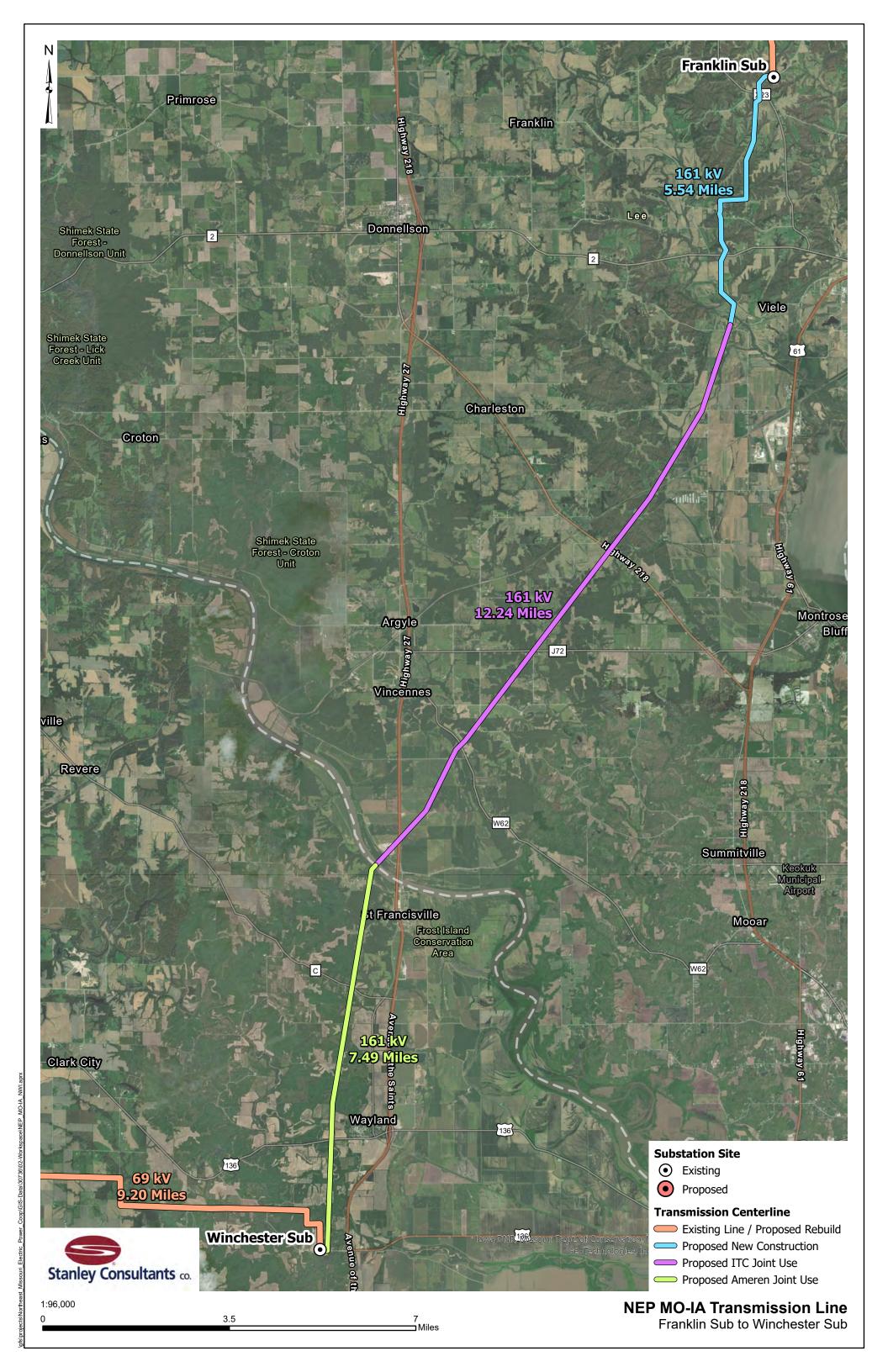
Project/Manager Stanley Consultants, Inc.

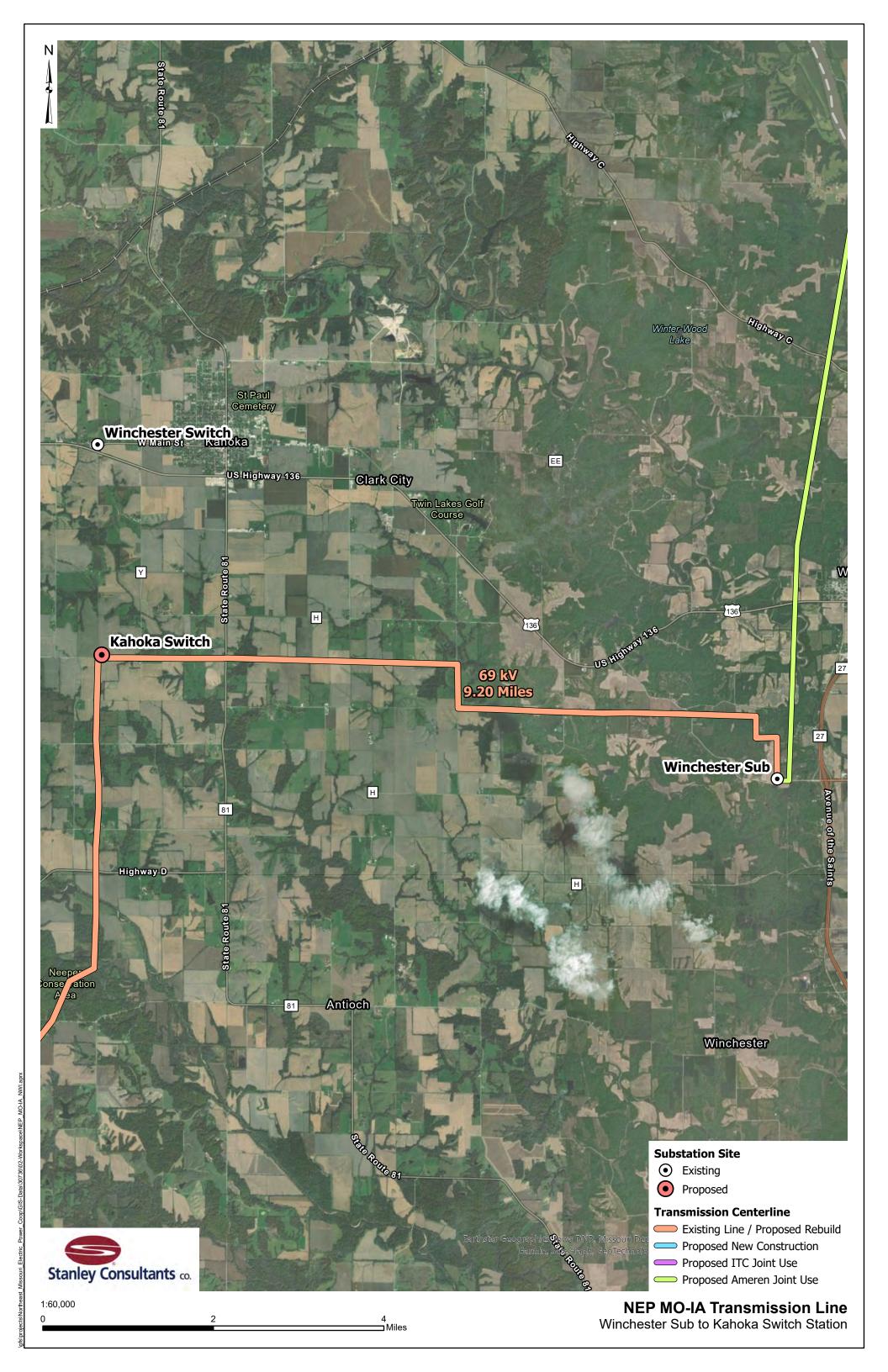
Enclosures: Project Figures and Overview Map

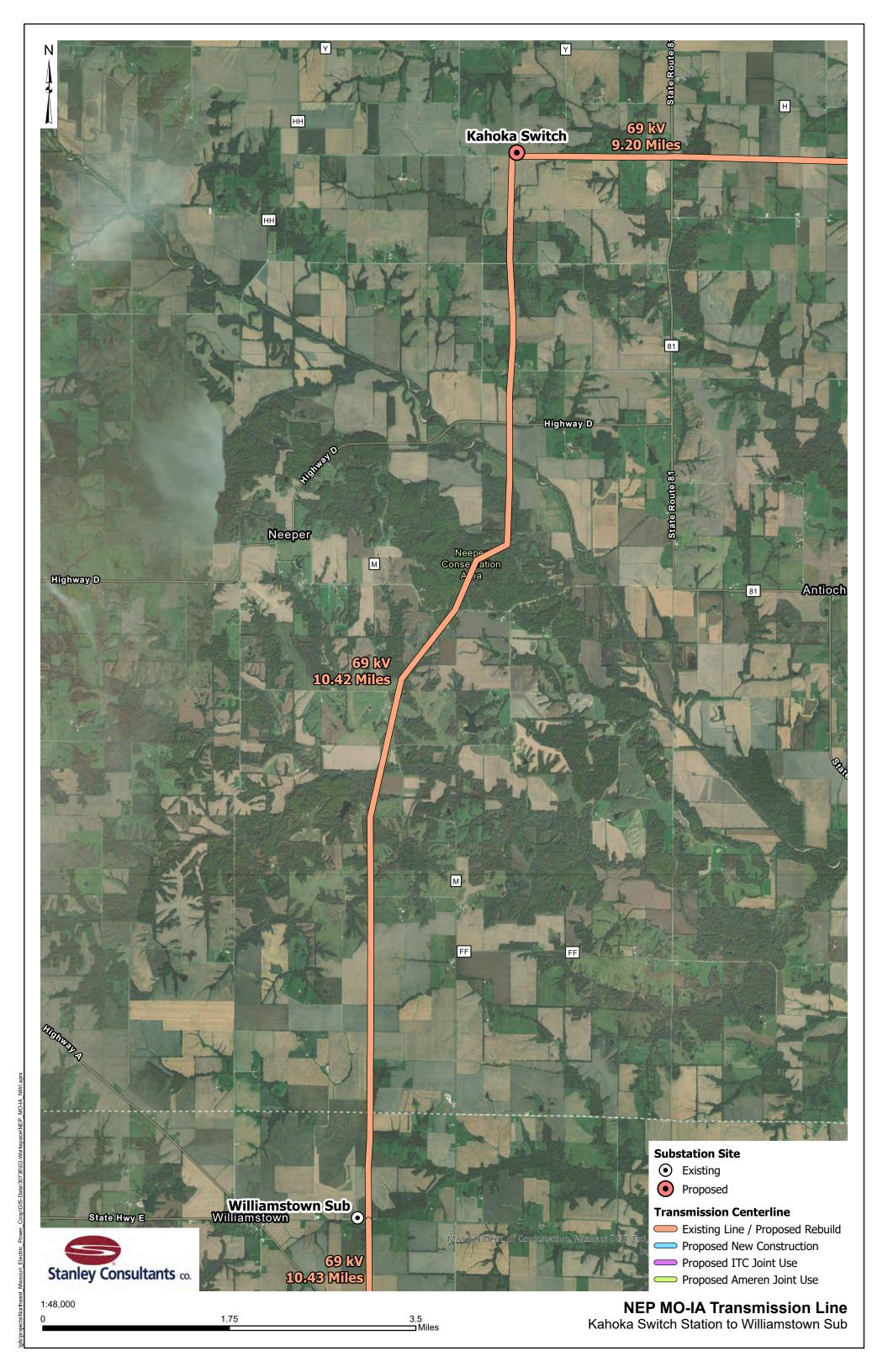
Project Figures

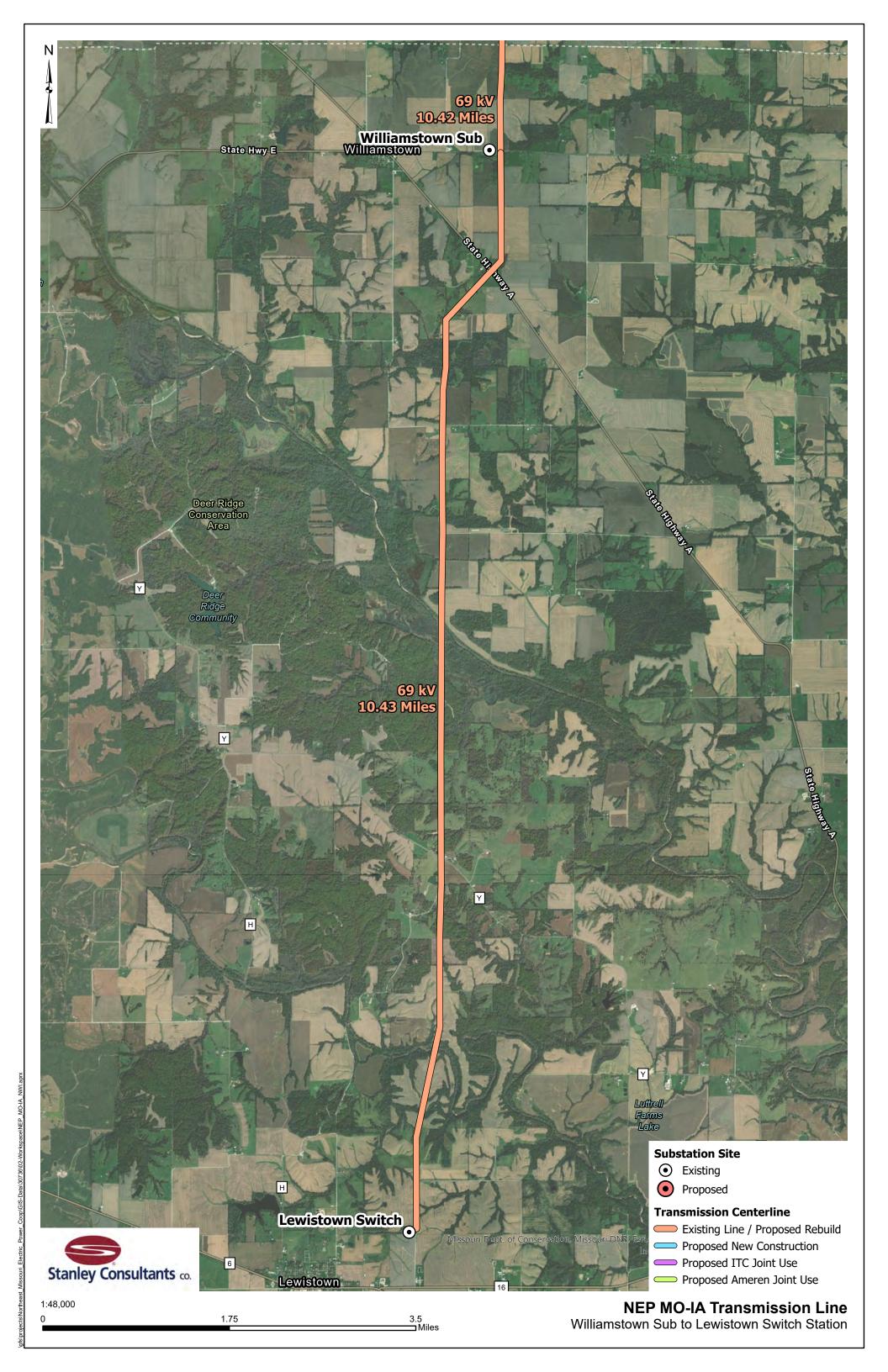














2658 Crosspark Road Suite 100 Coralville, IA 52241

319.259.6658 stanleyconsultants.com



October 23, 2024

Kraig McPeek Field Office Supervisor U.S. Fish and Wildlife Service 1511 47th Avenue Moline, IL 61265

NO OBJECTION

U.S. Fish and Wildlife Service Illinois-Iowa ES Field Office Supervisor: Date:

SUBJECT: Project Code: 2023-0048528; NEP MO to IA Transmission Line, New Construction

Dear Kraig:

Project Description

Northeast Missouri Electric Power Cooperative (NEP/Applicant) is in the process of performing an environmental assessment pursuant to the National Environmental Policy Act (NEPA) for the United States Department of Agriculture (USDA), Rural Development to assess the environmental impacts of a transmission line rebuild and construction project (Project). NEP has proposed to rebuild approximately 52 miles of existing transmission line to support a larger capacity, construct 5.54 miles of new transmission line, and conduct improvements at an existing substation to support higher voltages and additional transmission lines. This project stretches from Lewis County, Missouri, to Lee County, Iowa, and intends to obtain funding through the Rural Utility Services (RUS) Federal Grant Program.

Project Impact

As stated, approximately 5.54 miles of new transmission line is proposed for construction. This portion of the proposed route is located in Lee County, Iowa, roughly five miles west-northwest of the city of Fort Madison (see attached Overview Map). The topography throughout the proposed project corridor varies, but the landscape in this portion of the project consists generally of rills, ravines, low-lying intermittent and ephemeral creeks, perennial streams, and large swaths of forest. Land uses within the project area, at lower elevations, is agricultural and residential development. Land use at higher elevations is predominately undeveloped deciduous forests with some residential development. The Mississippi River is located approximately four miles to the southeast.

As shown on the attached Tree Clearing Area figure, within a 0.5-mile radius of the project there are more than 2,000 acres of landcover types that have the potential to serve as bat habitat. Assuming tree removal is limited to 50 feet on of either side of the transmission line centerline and the entirety of the access road, construction activities will result in the removal of 32.47 acres (1.55% of the 0.5-mile radius) of those land covers.

Construction specifications will dictate that tree removal is to occur outside the maternity roost season (October 1st to March 31st) and methods of tree removal will be minimally invasive. This will be achieved by limiting the method of tree clearing to hand cutting, brush hogging, and removal of stumps using a stump grinder. Additionally, debris created by the removal process will be hauled away with as little ground disturbance as possible.

Regulatory Review and Concurrence

The U.S. Fish & Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) tool was used to identify a list of species and critical habitat that "may be present" within the project area. Three bat species were listed: the Gray Bat (Myotis grisescens), the Indiana Bat (Myotis sodalis), and the Northern Long-eared bat (Myotis





septentrionalis). At the time of this letter, the Tricolored bat (*Perimyotis subflavus*) is proposed endangered. There were no areas of critical habitat listed as occurring within the project corridor.

It is the opinion of Stanley Consultants and NEP that the proposed project is "not likely to adversely affect" the above listed species. This determination is based on the availability of other suitable habitat in the immediate area and the limitations that will be placed on tree clearing (outside the maternity roosting season and the use of minimally invasive techniques). It is with submittal of this letter that we are requesting concurrence with this determination.

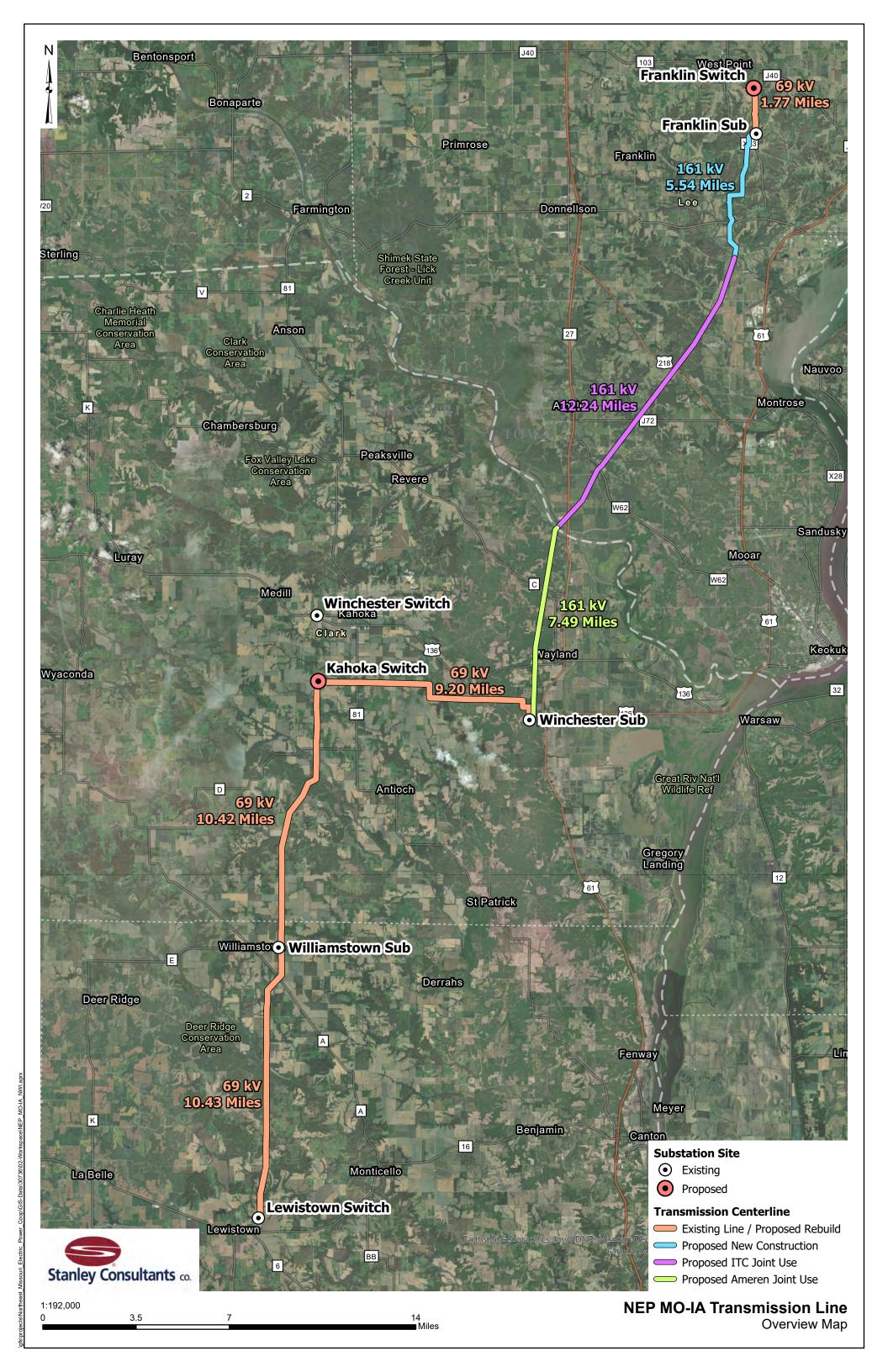
Thank you for your time. Should you have any questions or need additional information, please contact me at 319.259.6600 or DusingMegan@stanlevgroup.com.

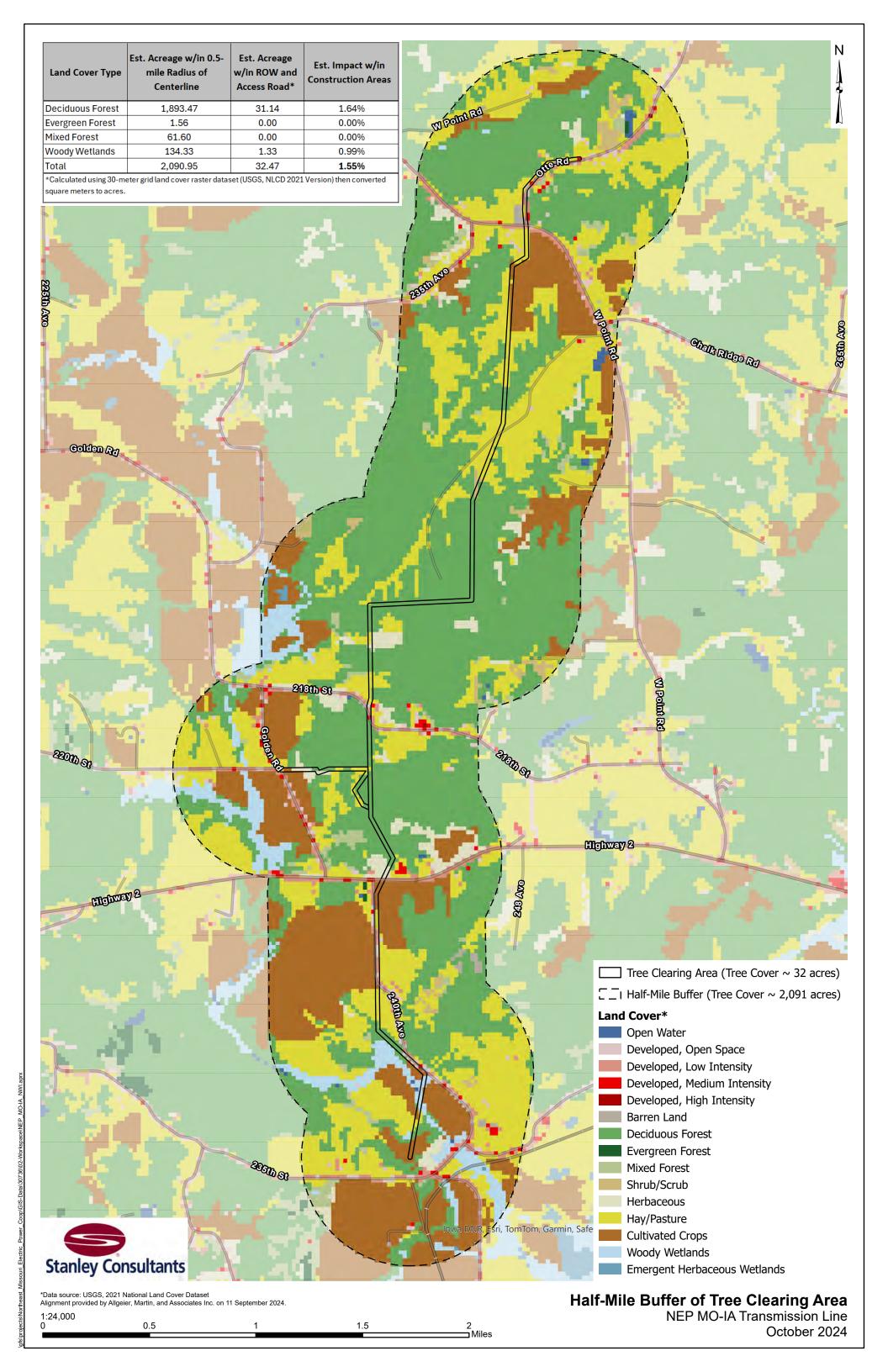
Sincerely,

Stanley Consultants, Inc.

Megan Dusing, PWS

Principal Environmental Scientist







United States Department of the Interior



FISH AND WILDLIFE SERVICE

Missouri Ecological Services Field Office 101 Park Deville Drive Suite A Columbia, MO 65203-0057

Columbia, MO 65203-0057 Phone: (573) 234-2132 Fax: (573) 234-2181

In Reply Refer To: 02/21/2025 21:54:21 UTC

Project Code: 2023-0048528

Project Name: NEP MO70 Missouri to Iowa EA

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Threatened and Endangered Species

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and may be affected by your proposed project. The species list fulfills the requirement for obtaining a Technical Assistance Letter from the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. **Note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days.** The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

Consultation Technical Assistance

Refer to the Midwest Region <u>S7 Technical Assistance</u> website for step-by-step instructions for making species determinations and for specific guidance on the following types of projects:

projects in developed areas, HUD, pipelines, buried utilities, telecommunications, and requests for a Conditional Letter of Map Revision (CLOMR) from FEMA.

Federally Listed Bat Species

Indiana bats, gray bats, and northern long-eared bats occur throughout Missouri and the information below may help in determining if your project may affect these species.

Gray bats - Gray bats roost in caves or mines year-round and use water features and forested riparian corridors for foraging and travel. If your project will impact caves, mines, associated riparian areas, or will involve tree removal around these features – particularly within stream corridors, riparian areas, or associated upland woodlots –gray bats could be affected. *Indiana and northern long-eared bats* - These species hibernate in caves or mines only during the winter. In Missouri the hibernation season is considered to be November 1 to March 31. During the active season in Missouri (April 1 to October 31) they roost in forest and woodland habitats. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥5 inches diameter at breast height (dbh) for Indiana bat, and ≥ 3 inches dbh for northern long-eared bat, that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Tree species often include, but are not limited to, shellbark or shagbark hickory, white oak, cottonwood, and maple. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat and evaluated for use by bats. If your project will impact caves or mines or will involve clearing forest or woodland habitat containing suitable roosting habitat, Indiana bats or northern long-eared bats could be affected.

Examples of <u>unsuitable</u> habitat include:

Project code: 2023-0048528

- Individual trees that are greater than 1,000 feet from forested or wooded areas;
- Trees found in highly-developed urban areas (e.g., street trees, downtown areas);
- A pure stand of less than 3-inch dbh trees that are not mixed with larger trees; and
- A stand of eastern red cedar shrubby vegetation with no potential roost trees.

Using the IPaC Official Species List to Make No Effect and May Affect Determinations for Listed Species

1. If IPaC returns a result of "There are no listed species found within the vicinity of the project," then project proponents can conclude the proposed activities will have **no effect** on any federally listed species under Service jurisdiction. Concurrence from the Service is not required for **No Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records. An example "No Effect" document also can be found on the S7 Technical Assistance website.

2. If IPaC returns one or more federally listed, proposed, or candidate species as potentially present in the action area of the proposed project – other than bats (see #3 below) – then project proponents can conclude the proposed activities **may affect** those species. For assistance in determining if suitable habitat for listed, candidate, or proposed species occurs within your project area or if species may be affected by project activities, you can obtain Life History Information for Listed and Candidate Species through the Species

- 3. If IPac returns a result that one or more federally listed bat species (Indiana bat, northern long-eared bat, or gray bat) are potentially present in the action area of the proposed project, project proponents can conclude the proposed activities **may affect** these bat species **IF** one or more of the following activities are proposed:
 - Clearing or disturbing suitable roosting habitat, as defined above, at any time of year;
 - b. Any activity in or near the entrance to a cave or mine;
 - c. Mining, deep excavation, or underground work within 0.25 miles of a cave or mine;
 - d. Construction of one or more wind turbines; or

Project code: 2023-0048528

website.

e. Demolition or reconstruction of human-made structures that are known to be used by bats based on observations of roosting bats, bats emerging at dusk, or guano deposits or stains.

If none of the above activities are proposed, project proponents can conclude the proposed activities will have **no effect** on listed bat species. Concurrence from the Service is not required for **No Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records. An example "No Effect" document also can be found on the S7 Technical Assistance website.

If any of the above activities are proposed in areas where one or more bat species may be present, project proponents can conclude the proposed activities **may affect** one or more bat species. We recommend coordinating with the Service as early as possible during project planning. If your project will involve removal of over 5 acres of <u>suitable</u> forest or woodland habitat, we recommend you complete a Summer Habitat Assessment prior to contacting our office to expedite the consultation process. The Summer Habitat Assessment Form is available in Appendix A of the most recent version of the <u>Range-wide Indiana Bat Summer Survey</u> Guidelines.

Other Trust Resources and Activities

Bald and Golden Eagles - Although the bald eagle has been removed from the endangered species list, this species and the golden eagle are protected by the Bald and Golden Eagle Act and the Migratory Bird Treaty Act. Should bald or golden eagles occur within or near the project area please contact our office for further coordination. For communication and wind energy projects, please refer to additional guidelines below.

Migratory Birds - The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Service. The Service has the responsibility under the MBTA

to proactively prevent the mortality of migratory birds whenever possible and we encourage implementation of recommendations that minimize potential impacts to migratory birds. Such measures include clearing forested habitat outside the nesting season (generally March 1 to August 31) or conducting nest surveys prior to clearing to avoid injury to eggs or nestlings.

Communication Towers - Construction of new communications towers (including radio, television, cellular, and microwave) creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. However, the Service has developed voluntary guidelines for minimizing impacts.

Transmission Lines - Migratory birds, especially large species with long wingspans, heavy bodies, and poor maneuverability can also collide with power lines. In addition, mortality can occur when birds, particularly hawks, eagles, kites, falcons, and owls, attempt to perch on uninsulated or unguarded power poles. To minimize these risks, please refer to guidelines developed by the Avian Power Line Interaction Committee and the Service. Implementation of these measures is especially important along sections of lines adjacent to wetlands or other areas that support large numbers of raptors and migratory birds.

Wind Energy - To minimize impacts to migratory birds and bats, wind energy projects should follow the Service's <u>Wind Energy Guidelines</u>. In addition, please refer to the Service's <u>Eagle Conservation Plan Guidance</u>, which provides guidance for conserving bald and golden eagles in the course of siting, constructing, and operating wind energy facilities.

Next Steps

Should you determine that project activities **may affect** any federally listed species or trust resources described herein, please contact our office for further coordination. Letters with requests for consultation or correspondence about your project should include the Consultation Tracking Number in the header. Electronic submission is preferred.

If you have not already done so, please contact the Missouri Department of Conservation (Policy Coordination, P. O. Box 180, Jefferson City, MO 65102) for information concerning Missouri Natural Communities and Species of Conservation Concern.

We appreciate your concern for threatened and endangered species. Please feel free to contact our office with questions or for additional information.

John Weber

Note: IPaC has provided all available attachments because this project is in multiple field office jurisdictions.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles

Migratory Birds

Project code: 2023-0048528

Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Missouri Ecological Services Field Office

101 Park Deville Drive Suite A Columbia, MO 65203-0057 (573) 234-2132

This project's location is within the jurisdiction of multiple offices. However, only one species list document will be provided for all offices. The species and critical habitats in this document reflect the aggregation of those that fall in each of the affiliated office's jurisdiction. Other offices affiliated with the project:

Illinois-Iowa Ecological Services Field Office

Illinois & Iowa Ecological Services Field Office 1511 47th Ave Moline, IL 61265-7022 (309) 757-5800

PROJECT SUMMARY

Project code: 2023-0048528

Project Code: 2023-0048528

Project Name: NEP MO70 Missouri to Iowa EA

Project Type: Transmission Line - New Constr - Above Ground

Project Description: NEP has proposed to rebuild approximately 52 miles of transmission line

to support a larger capacity, construct six miles of new transmission line, and conduct improvements at an existing substation to support higher voltages and additional transmission lines. This project stretches from Lewis County, Missouri, to Lee County, Iowa, and intends to obtain funding through the Rural Utility Services (RUS) Federal Grant Program.

The proposed start date for construction is May 2024

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@40.396960449999995,-91.59320261412515,14z



Counties: Iowa and Missouri

ENDANGERED SPECIES ACT SPECIES

Project code: 2023-0048528

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2023-0048528 02/21/2025 21:54:21 UTC

MAMMALS

NAME STATUS

Gray Bat *Myotis grisescens*

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329

Indiana Bat Myotis sodalis

Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/RZKA3KQC7FCUNJUUXXRHEMQYTM/

documents/generated/7280.pdf

Northern Long-eared Bat Myotis septentrionalis

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/RZKA3KQC7FCUNJUUXXRHEMQYTM/

documents/generated/7280.pdf

Tricolored Bat Perimyotis subflavus

Proposed

No critical habitat has been designated for this species.

Endangered

Species profile: https://ecos.fws.gov/ecp/species/10515

CLAMS

NAME STATUS

Higgins Eye (pearlymussel) Lampsilis higginsii

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/5428

Endangered

Sheepnose Mussel *Plethobasus cyphyus*

There is **proposed** critical habitat for this species. Your location does not overlap the critical

habitat.

Species profile: https://ecos.fws.gov/ecp/species/6903

Endangered

Spectaclecase (mussel) Cumberlandia monodonta

There is **proposed** critical habitat for this species. Your location does not overlap the critical

habitat.

Species profile: https://ecos.fws.gov/ecp/species/7867

Endangered

INSECTS

NAME STATUS

Monarch Butterfly *Danaus plexippus*

Proposed

There is **proposed** critical habitat for this species. Your location does not overlap the critical

Threatened

habitat.

Species profile: https://ecos.fws.gov/ecp/species/9743

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NAME

Western Regal Fritillary Argynnis idalia occidentalis

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/12017

FLOWERING PLANTS

NAME

STATUS

Eastern Prairie Fringed Orchid Platanthera leucophaea

Threatened

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/601

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act ² and the Migratory Bird Treaty Act (MBTA) ¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

- 1. The Bald and Golden Eagle Protection Act of 1940.
- 2. The Migratory Birds Treaty Act of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are Bald Eagles and/or Golden Eagles in your project area.

Measures for Proactively Minimizing Eagle Impacts

For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the <u>National Bald Eagle Management Guidelines</u>. You may employ the timing and activity-specific distance recommendations in this document when designing your project/ activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to <u>Bald Eagle Nesting and Sensitivity to Human Activity</u>.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional <u>Migratory Bird Office</u> or <u>Ecological Services Field Office</u>.

If disturbance or take of eagles cannot be avoided, an <u>incidental take permit</u> may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the <u>Do I Need A Permit Tool</u>. For assistance making this determination for golden eagles, please consult with the appropriate Regional <u>Migratory Bird Office</u> or <u>Ecological Services Field Office</u>.

Ensure Your Eagle List is Accurate and Complete

If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the <u>Supplemental Information on Migratory Birds and Eagles</u>, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

NAME BREEDING SEASON

Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

Breeds Oct 15 to

Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (

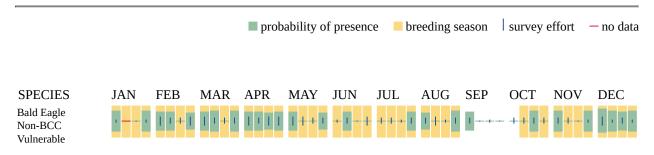
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (-)

A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service). The incidental take of migratory birds is the injury or death of birds that results from, but is not the purpose, of an activity. The Service interprets the MBTA to prohibit incidental take.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Black-billed Cuckoo <i>Coccyzus erythropthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Bobolink <i>Dolichonyx oryzivorus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9454	Breeds May 20 to Jul 31
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Eastern Whip-poor-will <i>Antrostomus vociferus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10678	Breeds May 1 to Aug 20
Grasshopper Sparrow <i>Ammodramus savannarum perpallidus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8329	Breeds Jun 1 to Aug 20
Henslow's Sparrow <i>Centronyx henslowii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3941	Breeds May 1 to Aug 31
Kentucky Warbler <i>Geothlypis formosa</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9443	Breeds Apr 20 to Aug 20
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere

NAME	BREEDING SEASON
Pectoral Sandpiper <i>Calidris melanotos</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9561	Breeds elsewhere
Prothonotary Warbler <i>Protonotaria citrea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9439	Breeds Apr 1 to Jul 31
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9398	Breeds May 10 to Sep 10
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9478	Breeds elsewhere
Semipalmated Sandpiper <i>Calidris pusilla</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9603	Breeds elsewhere
Short-billed Dowitcher <i>Limnodromus griseus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (-)

A week is marked as having no data if there were no survey events for that week.





Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

• R5UBH

- R2USC
- R2UBF
- R4SBC
- R4SBA
- R2UBGx
- R2UBFx
- R4SBCx
- R2UBH
- R2UBG

FRESHWATER FORESTED/SHRUB WETLAND

- PFO1Ch
- PFO1Ax
- PFO1C
- PFO1A
- PSS1C

FRESHWATER EMERGENT WETLAND

- PEM1A
- PEM1Cx
- PEM1Ch
- PEM1C
- PEM1F

FRESHWATER POND

- PUBGh
- PUBFx
- PUBFh

Project code: 2023-0048528 02/21/2025 21:54:21 UTC

IPAC USER CONTACT INFORMATION

Agency: Stanley Consultants Name: Megan Dusing

Address: 2658 Crosspark Road Ste. 100

City: Coralville

State: IA Zip: 52241

Email dusingmegan@stanleygroup.com

Phone: 3192596600

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Rural Utilities Service