Tree & Shrub Mitigation Plan
Oliver Wind IV & Transmission Line
Mercer & Oliver Counties, North Dakota

April 22, 2025
ECT No. 240726

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Introduction and Regulatory Background

Environmental Consulting and Technology, Inc. (ECT) has been retained by NextEra Energy Resources, LLC (NEER) to plan and conduct a tree and shrub mitigation plan for Oliver Wind IV, LLC, a wholly owned, indirect subsidiary of NEER (referred to herein, Oliver Wind IV) for the Oliver Wind IV Energy Center and 345 kV Transmission Line (collectively, the Projects) which commenced commercial operations in December 2024. The Projects consist of turbines, transmission line, access roads, underground electrical collection systems, collection substations, and operations and maintenance (O&M) building, meteorological evaluation (Met) towers, a construction laydown area, and a batch plant. Construction of the Projects required the removal of trees and shrubs.

On April 29, 2024, in Case No. PU-23-317 and Case No. PU-23-318, the North Dakota Public Service Commission (Commission) issued Findings of Fact, Conclusions of Law, and Order (Order) for the Projects which contained the Tree and Shrub Mitigation Specifications (***Appendix A***).

The Commission required that prior to the removal of any tree or shrub for construction, all trees with a diameter at breast height (DBH) larger than one inch be inventoried, to record the location, species, and location (***Appendix C***). All trees and shrubs greater than one-inch DBH and all coniferous trees and shrubs of any size were inventoried to record the location, species, and location. Merjent, Inc provided tree and shrub inventory data from pre-construction and post-construction. This information was used to plan for the proposed quantity, species, and location. Any species deemed to be noxious or invasive are planned to be replaced with a similar non-invasive, non-noxious species suitable for the North Dakota growing conditions as recommended by the Oliver County Soil Conservation District. The removed species will be replaced at a 2:1 ratio with conservation grade saplings at least two years old.

The tree and shrub replacements will be inspected annually in September for two consecutive years. The first inspection will take place in September 2025.

The purpose of this Tree and Shrub Mitigation Plan is to create sustainable plantings that are appropriate for the local growing conditions and soil that will provide landowners, farmers and ranchers, the community, wildlife and the environment long-term benefits. This Tree and Shrub Mitigation Plan was developed in consultation with effected landowners and the local Soil Conservation District office in accordance with United States Department of Agriculture-Natural Resources Conservation Service-North Dakota Field Office Technical Guide: Windbreak and Woodland Tree Care and Management (***Appendix B***). Tree and Shrub Mitigation Plan includes the inventory of trees and shrubs that were cleared during construction, the proposed amount, species, and location of trees and shrubs to be replaced at a 2:1 ratio, and approximate date for tree and shrub plantings.

Inventory of Trees and Shrubs

The Commission requires that, prior to cutting trees or shrubs for construction, all trees greater than one-inch DBH and all coniferous trees and shrubs of any size must have recorded the location, quantity, and species (***Appendix D***).

Trees and shrubs were inventoried prior to the Projects' construction in the spring and summer of 2024 by Merjent, Inc. The inventory documented the location, quantity, and species of trees and shrubs. The inventory occurred where the Projects' construction easements intersected trees and shrubs. The inventory documented a total of 5,535 trees and shrubs collectively within the Projects construction easements that were identified as needing to be removed (***Appendix D***). A total of 25 different tree and shrub species were identified including: white fir (*Abies concolor*), caragana (*Caragana arborescens*), common hackberry (*Celtis occidentalis*), red osier (*Cornus sericea*), Arnold hawthorn (*Crataegus arnoldiana*), Russian olive (*Elaeagnus angustifolia*), silverberry (*Elaeagnus angustifolia*), green ash (*Fraxinus pennsylvanica*), Rocky Mountain juniper (*Juniperus scopulorum*), eastern red-cedar (*Juniperus* virginiana), tatarian honeysuckle (*Lonicera tatarica*), Ironwood (*Ostrya virginiana*), Colorado blue spruce (*Picea pungens*), white poplar (*Populus* alba), eastern cottonwood (*Populus deltoides*), quaking aspen (*Populus tremuloides*), American plum (*Prunus americana*), chokecherry (*Prunus virginiana*), golden currant (*Ribes* aureum), Bebb's willow (*Salix bebbiana*), sandbar willow (*Salix interior*), silver buffaloberry (*Shepherdia argentea*), common lilac (*Syringa vulgaris*), American elm (*Ulmus Americana*), and Siberian elm (*Ulmus pumila*).

Trees and shrubs were removed during construction of the Projects between June 2024 and October 2024. Oliver IV Wind restricted the construction easement near trees and shrubs to limit the number of trees and shrubs removed. A total of 5,521 trees and shrubs were removed during construction. Each tree and shrub that was removed will be replaced on a minimum 2:1 ratio for a total of 11, 042 trees and shrubs planted. However, 13,725 trees and shrubs will be planted in order to provide a greater benefit to the community, landowners, and to account for potential losses. Trees and shrubs will be replaced following the Field Office Technical Guide: Windbreak and Woodland Tree Care and Management (***Appendix B***) and recommendations by the local Soil Conservation District office.

Landowner Consultation

Landowners that had trees and/or shrubs removed from their property were initially contacted on March 27th, 2025, to determine how they wanted to proceed with tree and shrub replacement. Landowners were given the option to choose the location, the quantity of trees and shrubs they wanted, and the desired species (depending on availability). The list of suitable trees and shrubs given to landowners to make their selection was based upon the ability of ECT's contractor Prairie View Landscaping and Nursery to procure appropriate trees and shrubs that fit within the NRCS guidelines and recommendations for the area. Landowners were also given the option to waive their right to have trees and shrubs replaced on their property (***Appendix E***). Some landowners did not send waivers back. If a response was not received after multiple follow up calls and voicemails over a three and a half week period, the non-response was considered to be an opt out. Over the course of the three and a half week period from initial contact attempts, landowners were called every four to seven days with voicemails left every time (when voicemail boxes were set up). Additional coordination with the NextEra land team to contact unresponsive landowners took place once the third round of contact attempts occurred. The Oliver County Soil Conservation District was contacted to acquire the NRCS expected 20-year tree height list for Oliver County, North Dakota. The Oliver County Soil Conservation District also highlighted the 6D soil class within the document since that is the most predominate soil class we would experience within Oliver County and made recommendations about certain species of trees and shrubs that would be more desirable by landowners.

The landowners that were interested in having the trees/shrubs replaced on their property were sent individual follow-up emails, which included aerial imagery of their property and proposed planting locations by the landowner. Discussions occurred to ensure locations were suitable for planting based upon the tree and shrub species selected by the landowner. The landowner proceeded to confirm on the aerial imagery where they would like the replacement trees/shrubs to be planted (***Appendix F***). The email contained a list of the available approved species in accordance with the NRCS guidelines and recommendations that the landowner could choose from. As part of the development of this plan, Oliver IV Wind consulted with landowners and provided them with the option of whether they wanted to utilize weed barrier fabric and tree protectors. Upon feedback received from initial landowner coordination efforts, additional evergreen species were obtained to ensure there were enough evergreens for each landowner. Using that information, individual planting plans were created for each landowner. If the landowner did not want the trees/shrubs replaced on their property, an alternative site was selected.

There is still ongoing coordination with David and Roslyn Henke and Richard Huntimer to select planting locations. Therefore, those planting plans are not finalized currently but are expected to be finalized in the near future.

Table 0. Tree/Shrub Replacement Quantity & Species by Landowner

Landowner	Number of Trees/Shrubs Removed	Number of Replacement Trees/Shrubs	Tree/Shrub Species Requested	Total of Each Species
Toni Aalberg	317 Trees 1002 Shrubs	339 Trees 1,810 Shrubs	American Plum	200
			Common Chokecherry	210
			Ponderosa Pine	144
			Quaking Aspen	70
			Red Dogwood	200
			Sandbar Willow	25
			Silver Buffaloberry	1200
			White Poplar	100
Sandy Bargmann	4 Trees 4 Shrubs	594 Trees 100 Shrubs	Eastern Cottonwood	100
			Eastern Red Cedar	174
			Ponderosa Pine	170
			Rocky Mountain Juniper	100
			Silver Buffaloberry	100
			White Poplar	50
Basin Cooperative Services	489 Trees 839 Shrubs	Opt out	N/A	0
Gary Beckman	93 Trees 0 Shrubs	520 Trees 50 Shrubs	Common Chokecherry	50
			Eastern Cottonwood	261
			Eastern Red Cedar	174
			Ponderosa Pine	85
Loretta Beckman- Life Estate (Marvin Beckman)	2 Trees 0 Shrubs	Opt out	N/A	0
Dwight & Darbie Berger	0 Trees 8 Shrubs	30 Trees 200 Shrubs	Ponderosa Pine	10
			Rocky Mountain Juniper	10
			Silver Buffaloberry	200
			White Poplar	10

Landowner	Number of Trees/Shrubs Removed	Number of Replacement Trees/Shrubs	Tree/Shrub Species Requested	Total of Each Species
Foss, Gordon, Edven & Sherree Boutilier	1 Tree 23 Shrubs	299 Trees 30 Shrubs	American Plum	10
			Common Chokecherry	20
			Eastern Red Cedar	153
			Ponderosa Pine	116
			Quaking Aspen	10
			Rocky Mountain Juniper	20
Valerie Brunmeier	182 Trees 579 Shrubs	1,087 Trees 800 Shrubs	American Plum	150
			Common Chokecherry	25
			Eastern Cottonwood	100
			Eastern Red Cedar	300
			Ponderosa Pine	250
			Quaking Aspen	50
			Rocky Mountain Juniper	387
			Silver Buffaloberry	625
Kenneth Cahoon	1 Tree 0 Shrubs	Opt out	N/A	0
Carolyn Oster Life Estate-Lyn Kull, Todd & Audra Oster	1 Tree 27 Shrubs	221 Trees 20 Shrubs	Common Chokecherry	10
			Eastern Red Cedar	87
			Ponderosa Pine	85
			Red Dogwood	10
			Rocky Mountain Juniper	29
			White Poplar	20
Faut Family Revocable Living Trust	1 Tree 0 Shrubs	89 Trees 0 Shrubs	Eastern Red Cedar	87
			Ponderosa Pine	2
Robert & Bonita Ford	1 Tree 0 Shrubs	75 Trees 2 Shrubs	American Plum	2
			Eastern Red Cedar	25
			Ponderosa Pine	50

Landowner	Number of Trees/Shrubs Removed	Number of Replacement Trees/Shrubs	Tree/Shrub Species Requested	Total of Each Species
Dennis & Loretta Foss	162 Trees 69 Shrubs	811 Trees 950 Shrubs	Eastern Cottonwood	89
			Eastern Red Cedar	287
			Ponderosa Pine	135
			Quaking Aspen	50
			Red Dogwood	25
			Rocky Mountain Juniper	200
			Sandbar Willow	25
			Silver Buffaloberry	925
			White Poplar	25
Great River Energy	0 Trees 40 Shrubs	Opt out	N/A	0
David & Roselyn Henke	1 Tree 0 Shrubs	50 Trees 0 Shrubs	To Be Determined	50 total – Coordination ongoing
Dwight & Nancy Henke- Life Estate	0 Trees 59 Shrubs	Opt out	N/A	0
Lonnie Henke	1 Tree 0 Shrubs	2 Trees 0 Shrubs	Ponderosa Pine	2
Ryan & Darby Henke	95 Trees 53 Shrubs	Opt out	N/A	0
Betty Hintz- Life Estate: Steven, Traci, Kevin & Kelly Hintz	6 Trees 7 Shrubs	363 Trees 13 Shrubs	American Plum	3
			Common Chokecherry	10
			Eastern Red Cedar	174
			Ponderosa Pine	170
			Quaking Aspen	9
			White Poplar	10
Richard Huntimer	0 Trees 0 Shrubs	400 Trees 0 Shrubs	Eastern Red Cedar	100
			Ponderosa Pine	100
			Rocky Mountain Juniper	200
Marc & Marilyn Jensen	0 Trees 1 Shrub	1 Tree 1 Shrub	Quaking Aspen	1
			Red Dogwood	1

Landowner	Number of Trees/Shrubs Removed	Number of Replacement Trees/Shrubs	Tree/Shrub Species Requested	Total of Each Species
Marshall & Janice Karges	108 Trees 110 Shrubs	713 Trees	Eastern Red Cedar	127
			Ponderosa Pine	235
			Rocky Mountain Juniper	351
Kelly & Stephanie Maas- Living Trust	0 Trees 37 Shrubs	264 Trees 0 Shrubs	Eastern Red Cedar	87
			Ponderosa Pine	177
Kelly & Stephanie Maas- Living Trust	0 Trees 19 Shrubs	47 Trees 0 Shrubs	Ponderosa Pine	47
Ronald & Carol Kessler	1 Tree 6 Shrubs	172 Trees 25 Shrubs	Caragana	25
			Eastern Red Cedar	87
			Ponderosa Pine	85
Jennifer Olander	418 Tree 628 Shrubs	2,583 Trees 14 Shrubs	Eastern Red Cedar	600
			Ponderosa Pine	678
			Red Dogwood	14
			Rocky Mountain Juniper	1300
			White Poplar	5
Wayne & Deborah Rahn- Life Estate: Jody Saxton & Jessica Richter	6 Trees 0 Shrubs	Opt out	N/A	0
Jesse Roth	18 Trees 0 Shrubs	389 Trees 10 Shrubs	American Plum	10
			Eastern Red Cedar	197
			Ponderosa Pine	115
			Quaking Aspen	10
			Rocky Mountain Juniper	62
			White Poplar	5
Blaine Wilkens/ Treavor Hendrickson	103 Trees 12 Shrubs	701 Trees 0 Shrubs	Eastern Red Cedar	216
			Ponderosa Pine	269
			Rocky Mountain	216

Planting Schedules

Replacement trees and shrubs will be planted in the spring of 2025 (***Appendix F***). The planting plans will outline the location of the plantings for each individual landowner in ***Appendix F***. All required materials such as stakes, tube tree protectors, etc. will be acquired prior to planting. Arrangements have been made with the Prairie View Landscaping and Nursery to acquire trees and shrubs in Baldwin, North Dakota. Tree and shrub planting will be conducted by Prairie View Landscaping and Nursery and will be supervised by qualified ECT ecologists. Trees and shrubs will be two-foot conservation grade bareroot seedlings. Each tree and shrub will be hand planted with soil polymer, tree tubes and weed matting (if appropriate for the species and the landowner wants it), and given a good watering at the time of planting.

Follow-Up Documentation & Monitoring

For two consecutive years (2025, 2026) after completion and execution of tree and shrub mitigation plan, ECT will conduct annual visual surveys in September of the planting areas to document success/mortality. By October 1st of 2025, ECT will produce an annual technical memorandum documenting planting success and mortality of replacement trees and shrubs. By October 1st of 2026, ECT will produce a technical report documenting planting success and mortality of replacement trees and shrubs. Only the technical report will be submitted to the Commission, as outlined in the Tree and Shrub Mitigation Specifications (***Appendix A***).

APPENDIX A: TREE AND SHRUB MITIGATION SPECIFICATIONS

STATE OF NORTH DAKOTA
PUBLIC SERVICE COMMISSION

Oliver Wind IV, LLC **Case No. PU-23-317**
200 MW Oliver Wind IV Energy Center – Oliver County
Siting Application

Oliver Wind IV, LLC **Case No. PU-23-318**
345-kV Transmission Line – Oliver & Mercer
Siting Application

Tree and Shrub Mitigation Specifications

Inventory

Prior to cutting or clearing trees or shrubs for construction:

- All trees one-inch or greater in diameter at breast height must be inventoried to record the location, number, and species.
- All shrubs and all coniferous trees of any diameter must be inventoried to record the location, number, and species.

Clearing

The maximum width of tree and shrub removal is 50 feet, unless otherwise approved by the Commission.

Replacement

1. Landowners must be given the option to have trees and shrubs that are removed from their property replaced on their property. The landowner may waive this option in writing. If the landowner waives this option, the company shall plant replacement trees and shrubs in an alternate location in the same region, if practical.

2. Trees and shrubs must be replaced on a minimum two-to-one basis. The company shall develop a Tree and Shrub Mitigation Plan (Plan) in consultation with landowners who are seeking replacement trees and shrubs and in accordance with USDA-NRCS-North Dakota Field Office Technical Guide: Windbreak and Woodland Tree Care and Management. The guidelines outlined in the Technical Guide shall be followed until filing of the Plan summary outlined in number 5 below.

3. The purpose of the company's Tree and Shrub Mitigation Plan is to create sustainable plantings, appropriate for the local soil and growing conditions that will provide long-term benefit to landowners, farmers and ranchers, the community, wildlife and the environment.

4. The Plan, including the proposed number, variety, type, location, and approximate date for plantings, shall be filed with and approved by the Commission.

5. Two years after completion of the plan, the company must file a summary documenting how the plan achieved the purpose outlined in number 3 above. The summary must also report the number of surviving replacement trees and shrubs.

6. The Commission will consider, on a limited basis as conditions warrant, mitigation plans that provide long-term wildlife habitat and conservation benefits but do not involve the replanting of trees and shrubs.

APPENDIX B: FIELD OFFICE TECHNICAL GUIDE: WINDBREAK AND WOODLAND TREE CARE MANAGEMENT

TREE CARE AND MANAGEMENT

This technical note provides guidance for establishing trees and shrubs as part of the following Natural Resources Conservation Service (NRCS) Field Office Technical Guide (FOTG) Practices:

Alley Cropping (practice code 311)
Recreation Area Improvement (practice code 562)
Riparian Forest Buffer (practice code 391)
Stream Bank and Shoreline Protection (practice code 580)
Tree/Shrub Establishment (practice code 612)
Upland Wildlife Habitat Management (practice code 645)
Wetland Wildlife Habitat Management (practice code 644)
Windbreak/Shelterbelt Establishment (practice code 380)
Windbreak/Shelterbelt Renovation (practice code 650)

The success of any tree planting is dependent upon site preparation, stock quality, planting and handling techniques, and maintenance employed by the planner, vendor, planter, and landowner. This document illustrates a wide variety of methods that have proven successful for conservation tree and shrub plantings in North Dakota.

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WINDBREAK SUITABILITY GROUPS

Refer to "Expected 20-Year Tree Heights" in Section II - North Dakota FOTG to determine expected 20-year heights of trees and shrubs for the soils of each windbreak suitability group.

PLANT STOCK REQUIREMENTS

Planting stock must be grown from locally adapted seed or cuttings of known origin and meet height and caliper standards listed below. Planting stock should not come from sources greater than 200 miles away in latitude, 400 miles away in longitude, or 2,000 feet difference in elevation, unless long-term replicated field trials or extensive historical data indicate that the stock is hardy for a given location. "Planting stock sources" refers to the location where the plant naturally occurred or was propagated, not the location of the nursery from where it was purchased.

Bare Root Deciduous Seedlings shall not be less than ¼ inch caliper at 1 inch above the root collar. Bare root deciduous seedlings shall have a shoot (top growth) of at least 12 inches. Bare root seedlings should not be topped, unless untopped stock is not available. Rooted planting stock must not exceed a 2:1 shoot-to-root ratio (see Figure 1).

Bare Root Coniferous Stock shall be either 3-0 or 2-1 aged stock at a minimum (3-0 equals 3 years in a seedling bed; 2-1 equals 2 years in a seedling bed and 1 year in a transplant bed). Coniferous seedlings or transplants shall have at least a 6-inch shoot. Coniferous seedlings or transplants shall have a minimum stem diameter of 3/16 inch at 1 inch above the root collar. Rooted planting stock should have a well-developed fibrous root system and should not exceed a 2:1 shoot-to-root ratio (see Figure 1).

Vegetative Deciduous Cuttings shall be no less than ½ inch diameter at the base, have the apical bud and all lateral side branches removed, and produced in lengths long enough to reach a soil depth that remains saturated throughout the growing season, or the site must be irrigated (see Figure 7). Depth to the saturated zone must be determined before cuttings are ordered or harvested. In no case will vegetative deciduous cuttings be less than 10 inches in length. Tops of dormant-season-collected cuttings may be dipped in latex paint, paraffin or sealing wax to prevent desiccation and mark the top.

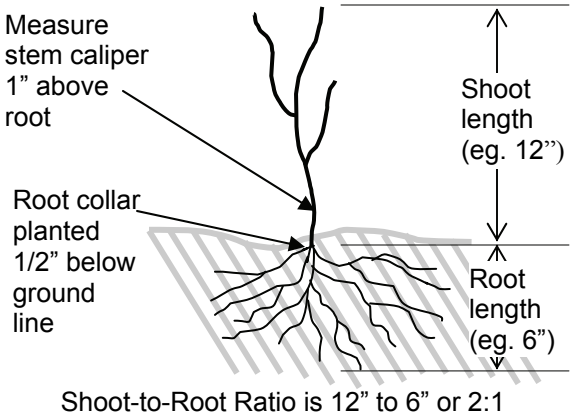
Vegetative material should be collected while dormant. Dormancy means no bud swell, no green showing on buds, and no separation of bud scales. Actively growing materials can be used, but survival will usually be lower.

Vegetative material works best if planted within 2 -3 weeks of harvest. Willow and cottonwood species can be stored up to 6 months. Proper storage consists of 34-38 degrees F with nearly 100 percent relative humidity. Storage in plastic bags will achieve the desired humidity. Care must be taken to prevent mold buildup. Do not allow stock to dry out for even short periods of time, as survival will be greatly reduced.

Container-grown Stock shall have a root mass of at least 7 cubic inches. Seedling height should be at least 6 inches. Container grown stock must be produced in containers that minimize girdling roots or J-roots.

Bare root seedlings, transplants, or container grown stock shall be dormant when planted. Avoid planting stock after bud break, except for bur oak and hackberry that have been sweated, or golden currant, common lilac, late lilac, Peking cotoneaster, and Tatarian honeysuckle. Container grown stock in gallon pots or larger may be planted after bud break, based on specific situations and individual requests of a variance.

Seeds shall be viable within the limits of the species. There is a large variation in seed quality between species. Some species of trees and shrubs have a high percentage of viable seeds that will easily germinate the first season



Shoot-to-Root Ratio is 12” to 6” or 2:1

Figure 1: Shoot/Root Ratio

after planting. Other species have seed that is very difficult to germinate. Even with proper scarification and/or stratification, some species exhibit only 2-3 percent germination 2 years after planting.

STORAGE OF STOCK

Rooted planting stock and cuttings will be stored in a cool, moist environment (34-38°F) or heeled into the soil. During all stages of handling and storage, keep stock free of mold, and roots moist and cool. Keep roots covered at all times. Evaluate stock that has been allowed to dry, heat up (e.g., within a bale, delivery carton or container), or that has developed mold or other problems. Destroy stock if there is any doubt as to the viability. Live cuttings that are not immediately planted after harvest shall be promptly placed in controlled storage conditions (34-38°F) and protected until planting time.

Seeds shall be stored in a cool (35-40°F), dark area. Depending upon the species, seed storage may require moist or dry conditions. Become knowledgeable of the duration of seed viability. Some species of seeds lose viability within months after maturity. Others, with proper storage, remain viable for years. To learn seed characteristics of a particular species, go to the Woody Plant Seed Manual. http://www.nsl.fs.fed.us/wpsm/ .

Landowners may keep stock for up to one week before planting by storing it in a shaded, cool, moist place. A basement or fruit cellar works very well. Plant bundles should be turned every day when temporarily stored to avoid mold and/ or drying problems within the bundle. Ensure roots are moist and not exposed to the air. Do not store in a bucket of water. Trees will commonly break dormancy (begin to leaf out) with this type of storage, resulting in poorer survival.

For longer storage periods, stock may be heeled in. This can be described as high-density planting in a furrow. Locate the heel-in bed in good soil in a protected location. See Figure 2 for details.

Cover roots quickly to minimize exposure to sun and air. Short periods of exposure can greatly reduce survival and establishment. Leaving plants in a heel-in bed for longer than one season increases the difficulty of transplanting and decreases survivability.

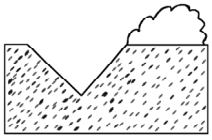


Figure 2A: Dig a trench deep enough for proper root placement.

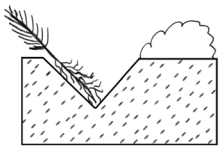


Figure 2B: Break bundles and spread along the trench wall with 2-3 inches between each plant.

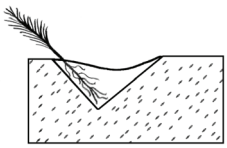


Figure 2C: Immediately cover roots with soil and lightly pack. Thoroughly soak the trench with water after planting to remove air spaces and improve root soil contact.

CARE AND HANDLING REQUIREMENTS

Roots of bare root stock shall be kept moist at all times during planting operations by placing in a water-soil (mud) slurry, super-absorbent (e.g., polyacrylamide) slurry, or covering with wet peat moss, wet shingle tow, or other equivalent material. Do not cover with dry shingle tow, peat moss, etc. and expect to thoroughly wet it afterwards. No matter the amount of water applied, some roots will remain dry.

The rooting medium of container or potted stock shall be kept moist at all times by periodic watering.

Pre-treat stored unrooted cuttings prior to planting by soaking in water for 24-48 hours. Note: There is some debate as to the effectiveness of soaking stored, unrooted cuttings prior to planting. However, soaking will not harm cuttings and may increase survivability.

Pre-treat bare root stock by soaking roots in water or polyacrylamide for several minutes before placing on the tree-planting machine. Keep roots moist and covered throughout the entire planting operation. To further reduce planting shock, stock could be carried during the planting process in buckets of water or slurry. Do not allow rooted conifer stock to be immersed for longer than one hour.

Stock shall not be planted when soil is frozen or dry. Do not handle trees or shrubs when temperatures are freezing or below.

Reduce exposure of bare root seedlings to air and sunshine while loading the planter and during the planting operation. Studies from South Dakota have shown that exposure of Scotch pine roots to air and sun on a 73-degree day for only 2 minutes resulted in 80 percent mortality.

Do not plant on hot, dry, windy days. Refer to Figure 3, Climatic Stress Chart, to identify suitable conditions for planting.

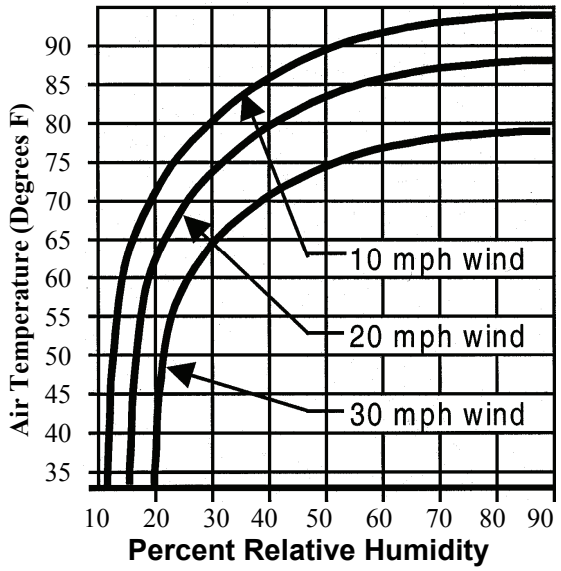


Figure 3: Climate Stress Chart

Cease planting when field temperature and humidity conditions fall above the curved line appropriate for sustained wind speeds at the site. As conditions approach those indicated by the appropriate wind speed line, use extra care to prevent desiccation of roots and tops. Site conditions falling below the appropriate wind speed line are generally considered good for tree and shrub planting. Cease planting when sustained wind speeds exceed 30 mph (miles per hour). To get a feel for changing climatic conditions throughout the previous day, go to the NDSU weather site at http://ndawn.ndsu.nodak.edu/.

Remove any wire or plastic ties that encircle the trunk or limbs of planted stock. If left on, they can girdle and kill the stem above that point as the stem increases in diameter.

Sweating Seedlings
Certain species such as bur oak and hackberry may require special preparation before planting, especially in cold, wet soils. These species have a tendency to not break dormancy without a "sweating" treatment. Trees that do not break dormancy during the first growing season will likely die.

Sweating trees is a simple process that usually requires nothing more than large sheets of plastic, large cardboard boxes and tape. One to two weeks before the trees are to be planted, remove them from the cooler. Line the cardboard boxes with a large piece of plastic. Place broken bundles of trees loosely in the plastic-lined box. Wet them thoroughly. Fold and tape the plastic together to make an air tight seal. Store the wrapped trees at room temperature, away from direct sunlight, for one to two weeks, checking to ensure they do not dry out.

Condensation should form on the inside of the plastic within hours, indicating a tight seal and that the process is working.

When properly sweated, the buds of these species will have swollen and in some cases broken open. Use extra precautions when planting sweated stock, especially if leaves are starting to emerge, because they are very sensitive to drying out during handling and the effects of hot dry winds immediately after planting.

PLANTING SITE PREPARATION

Planting sites shall be properly prepared based on soil and vegetative conditions listed below. Avoid sites that have had recent application of pesticides that may be harmful to woody species.

Check waiting period restrictions and carryover characteristics of pesticides applied to the planting site in the previous one to two years prior to initiating tree planting. If pesticides are used, apply only as needed within Federal, State, and local regulations. Follow label directions and heed all precautions listed on the container.

On sites treated with pesticides, especially tilled sites, be alert to health risks that may result from handling the chemically treated soil or breathing the chemically impregnated dust.

Do not plant trees where previously have been feedlots, manure piles, hay piles, or manure runoff without extensive soil testing to determine

salt and nutrient levels and chemical properties in the proposed planting area.

Site preparation may include the whole field, strips, or patches. Individual site preparation for each tree/shrub should provide a minimum 6-foot diameter circle, or a minimum 6-foot x 6-foot square, or a 6-foot wide strip at each planting spot (3 feet on each side of the planted stock).

The planting area must be free of living sod and perennial weeds before planting.

Tillage Site Preparation

Site Preparation by Tillage on Sod-covered Sites (or Sites With Perennial Herbaceous Cover)

Perform sufficient tillage to kill the sod and maintain the entire site in a reasonably weed free condition for one growing season prior to tree and shrub planting.

Nonselective herbicides may be used to kill sod grasses and other herbaceous species prior to tillage. Follow guidelines under "Chemical Site Preparation" and instructions found on the herbicide label.

Avoid tilling soils that are wet, to minimize compaction. Compacted soils can reduce rooting success and plant vigor.

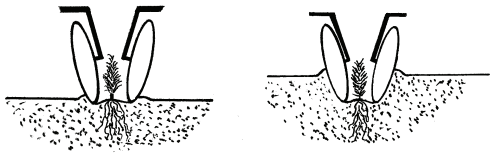
Be alert to potential wind and water erosion risks during the fallow period. Seed an annual cover crop of oats or spring grains to control erosion while minimizing water usage. Oats and spring grains will die over winter, but must be seeded early enough to attain 4-6 inch height prior to freeze up to provide soil protection.

For very erosive sites without rhizomatous grasses, (smooth bromegrass, canarygrass, Kentucky bluegrass, or quackgrass) and no plans for cover crops, till only 6-10 foot wide strips where the trees/shrubs will be planted while leaving and maintaining the existing vegetation between the rows. This will reduce wind and water erosion, sandblasting, provide easier site access, and provide wildlife benefits. The wider tilled area is appropriate for locations where weed control fabric is to be installed after the tree or shrub planting.

Orient tree and shrub plantings on the contour, when possible, to minimize water erosion risks during the fallow period and subsequent planting and maintenance operations.

Avoid deep tillage (greater than 2 inches deep) immediately prior to planting to prevent drying the seedbed.

Firm the seedbed prior to planting, if needed, to reduce soil moisture loss and aid in proper plant placement. A firm seedbed for tree planting should be similar to a firm seedbed for grass seeding where adult human footprints are barely visible and planting equipment leaves a minimal trench (see Figure 4).



This
Firm soil, plants at proper depth.

Not This
Soil too loose, plants pressed too deep.

Figure 4: Effects of Seedbed Firmness

Tillage Site Preparation on Cropland Sites

Shallow tillage immediately prior to planting to remove sprouted annual weeds and grasses is appropriate. Shallow tillage between harvest and freeze up the year before planting is permitted, if needed. Be alert to potential wind and water erosion risks during the fallow period. If needed, seed an annual cover crop of oats or small grains to control erosion while minimizing water usage. Oats or small grains will die over winter but must be seeded early enough to attain a 4-6 inch height prior to freeze up to provide soil protection.

Avoid excessive tillage prior to planting. Tillage is not needed or effective if there are no weeds present. Avoid drying the site with deep tillage.

Prior to planting, firm the seedbed, if needed, to reduce drying and to aid in proper depth placement of the plant and natural moisture movement within the soil. A firm seedbed for tree planting should be similar to a firm seedbed for grass seeding where adult human footprints are barely visible and planting equipment leaves a minimal trench (see Figure 4).

All precautions concerning erosion and sand blasting on sod-covered sites apply on cropland sites.

Consider tilling only 5-6 foot strips where the trees/shrubs will be planted (8-10 foot strips, if weed control fabric is to be installed after planting), thereby, allowing the standing stubble between the rows to act as temporary wind protection for new seedlings.

Scalp Planting Site Preparation

Scalp planting is a method that places plant material in an area cleared of competing vegetation. The area cleared is usually a foot or more wide on each side of the planted row. This operation is usually performed by attachments to the planting machine. It can also be done by other machines in a separate operation, or by hand immediately prior to planting.

Do not scalp plant into aggressive sods such as smooth brome, reed canarygrass, Kentucky bluegrass or quackgrass without additional weed control and site preparation treatments. Follow guidelines under "Chemical Site Preparation" and instructions found on the herbicide label before planting into sites with existing aggressive sods.

Scalping tends to encourage a rapid flush of annual weeds on the freshly exposed soil that will require a post-plant weed control effort.

When scalping on native range sites, orient plantings in locations that are most conducive to tree/shrub growth. Best tree growing sites are often found in toeslope positions, north facing slopes, or in swales and draws. Evaluate alternative locations to avoid establishing trees and shrubs on native range.

When possible, orient rows on a true contour to harvest runoff moisture and reduce erosion. Do not scalp into tilled sites.

Chemical Site Preparation

Chemical Site Preparation on Soddy Sites (or Sites With Perennial Herbaceous Cover)

Site preparation by herbicides on soddy sites should be initiated the growing season before planting. Troublesome species such as smooth bromegrass, Kentucky bluegrass, reed canarygrass or quackgrass, thistle, spurge, etc. may require multiple years of site prep before planting.

Follow label instructions so that application technique and timing of herbicide application will lead to a complete control of the vegetation. Repeated applications throughout the fallow year(s) are usually necessary. To improve herbicide coverage and effectiveness, bale or burn the area and allow fresh succulent regrowth. Apply herbicides at the proper time and rate to this regrowth.

For sites with rhizomatous grasses, (bromegrass, bluegrass, canarygrass, or quackgrass) completely spray the entire area where the trees/shrubs will be planted, including a 10-foot wide band around the outside of the planting.

On very erosive sites without rhizomatous grasses, (bromegrass, bluegrass, canarygrass, or quackgrass) and no plans for cover crops, completely spray out 5-6 foot wide strips where the trees/shrubs will be planted (8-10 feet where fabric will be applied) while leaving existing vegetation between rows. This will reduce potential erosion, sandblasting, provide easier access, and provide wildlife benefits.

Undisturbed dead sod often provides a season's weed control or suppression after the trees or shrubs have been planted.

Herbicides vary as to their risk of leaching or runoff. Avoid using herbicides with high runoff or leaching potential on sites where there is increased risk of polluting surface or ground water sources.

Chemical Site Preparation on Crop Fields

Apply appropriate burndown chemicals according to label directions prior to planting trees and shrubs, if needed.

Natural Regeneration Site Preparation

This procedure should only be attempted on sites within the 10-50 year floodplain of stream systems where adequate native seed trees or shrubs are within 200 yards of every part of the planting site and soils are suitable for tree planting. A healthy stand of cottonwoods or willows may be as far away as 1/4 mile from the seeding area. Stream systems where this could be attempted with a reasonable chance of success include:

- All perennial streams in counties bordering the Red River.
- Scattered segments of the Souris, James, and Sheyenne Rivers that meet flooding, soil, and seed tree requirements.

Perennial grasses should be controlled with herbicides and/or tillage prior to attempting this method of tree and shrub establishment. Riparian forest natural regeneration sites will tend to be very weedy due to large weed seed banks and high nutrient levels until tree canopies become thick enough to shade out the herbaceous vegetation.

Once herbaceous vegetation has been controlled, the site should be tilled to expose bare mineral soil just prior to seed dispersal from the tree species desired. Seed dispersal may occur from mid spring to late fall depending upon the species. During planning phases, determine dispersal times of the desired species to ensure timely site preparation. Besides direct on-site observation, the following source, "Woody Plant Seed Manual", can be used to determine likely seed dispersal times.

Consider leaving strips of vegetation perpendicular to flood flows to reduce scour erosion.

Installed Fabric Site Preparation

Fabric Site Preparation, All Sites

All instructions concerning fabric installation for weed control after planting apply when fabric is used for site preparation. Refer to “Synthetic Mulch (Fabric) Weed Control” under the maintenance section of this reference.

Installation of weed control fabrics as a form of site preparation can be very effective. When properly applied, it can effectively kill vegetation and store seasonal moisture ahead of planting.

Currently, planting trees/shrubs through the fabric must be done by hand; therefore, planting stock with compact root systems is most appropriate. Installing fabric the summer before planting, as a site preparation method, and using container-grown stock, can extend the planting season by 2-4 weeks.

Minimum fabric widths should be 6 feet (about 4 feet of weed control following installation by machine).

Rocks, staples, and/or soil must hold down fabric edges. It is essential that wind not be allowed under the fabric or it will be torn out of the ground. Staples or rocks should be spaced in the center of the fabric close to where the trees/shrubs will be planted the following spring.

When not using soil to anchor the fabric edges, staples, pins, or rocks must be placed every 3-5 feet along the edge. Do not use soil to hold down the fabric centers, as weeds will quickly become established on the soil spots, reducing or ruining the effectiveness of the fabric.

Fabric may be hand placed by anchoring the edges every 3-5 feet with staples, pins, or rocks. Every 10-15 feet a staple, pin, or rock should be placed in the middle of the fabric to prevent "billowing" by the wind.

After installation, fabric should be taut against the soil surface, reasonably level, and well anchored.

Fabric Site Preparation, Tilled Sites

The area to be tilled should be 2-4 feet wider than the width of the fabric, for those sites where fabric will be installed by machine. If the fabric will be hand placed, tillage need only be as wide as the fabric.

To facilitate hand planting, tillage should be deep enough to accommodate roots of the species to be planted the following spring.

Fabric Site Preparation, No Till Sites

Large amounts of grass and other herbaceous cover should be mowed and removed from the site before fabric installation to reduce the risks of rodent damage to the newly planted trees and shrubs.

Equipment modifications may be necessary if installing fabric by machine. Fabric laying machines may need to be “beefed up” in order to get good fabric placement and soil coverage on the fabric edges.

Tools used for planting must be able to easily penetrate untilled soils to the proper depth under the fabric. If easy penetration is not likely, use the “Fabric Site Preparation, Tilled Sites” method.

Native Grass Cover

Warm-season native grass species of blue grama, and/or sideoats grama may be seeded between tree/shrub rows to reduce erosion and runoff, prevent sandblasting, and improve wildlife cover.

When using native grasses between rows, it is essential a weed-free zone of at least 6 feet be maintained around each tree or shrub (3-foot radius around the trunk) for the first 3 years after planting. In areas with annual precipitation less than 16 inches, it is best to maintain the weed free zone for the entire life of the planting.

Warm-season native grass species sideoats grama and blue grama initiate growth after trees and shrubs have leafed out, reducing early season competition for water. These warm-season grass species are shade intolerant and will be suppressed as growing tree and shrub canopies shade the ground. In no case should a sod-forming cool-season grass such as smooth brome, canarygrass, bluegrass, or quackgrass be substituted for these species.

Warm-season grasses seeded between rows to control erosion and provide habitat. Note the chemical weed control within the rows.

Refer to Warm-Season Grass Cover Between Tree Rows fact sheet for detailed instruction on establishing the grass cover. Seeding grass during the prior year fallow period or seeding between rows after tree and shrub planting or fabric installation can minimize the potential conflict between grass seeding and tree planting dates.

Short warm season grasses are particularly effective between fabric strips. Without tillage between fabric strips, there is no risk of the fabric being hooked by a tillage implement and torn out. The following pure stand, drilled, seeding rates are to be used for designing the between row grass seeding

Blue grama 2.5# PLS (Pure Live Seed) per acre

Sideoats grama 7.5# PLS per acre

Broadcast rates must be 1.5 times drilled seeding rates.

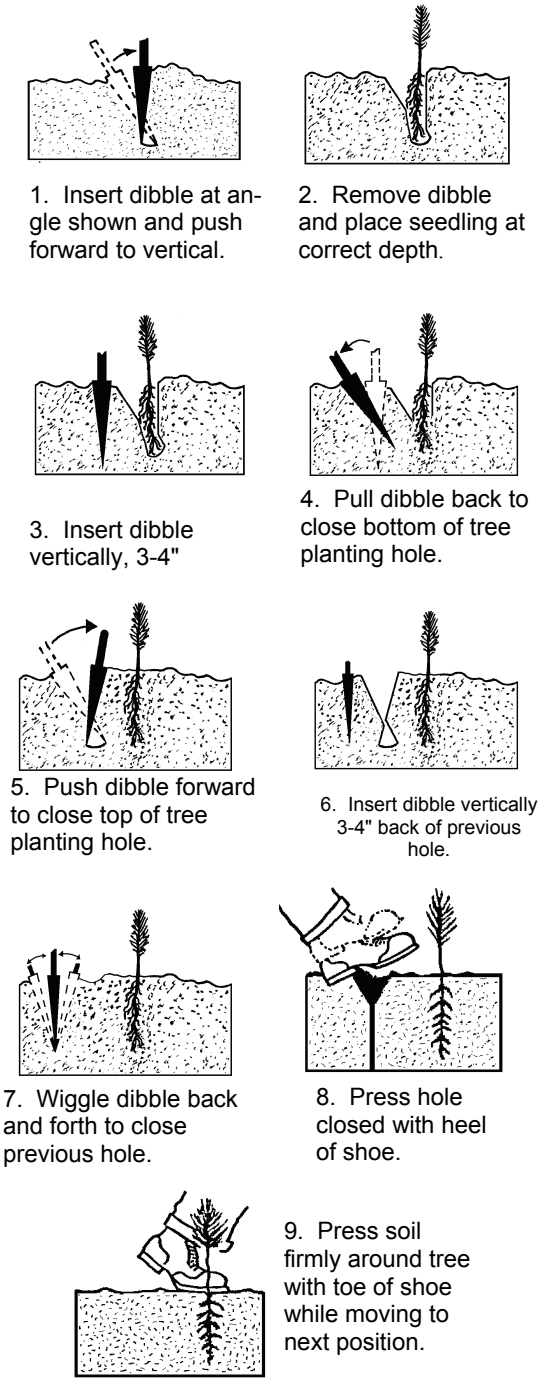


Figure 5: Hand Planting

PLANTING

Planting - All Sites Except Natural Regeneration and Direct Seeding

Plant only in the spring of the year after frost is out of the ground. All stock, except as noted, will be planted by May 31.

Extensions of these planting dates by 10 days may be made by the district conservationist, if local soil moisture and temperature conditions justify it and are documented. Before granting an extension, consider the cooperator's ability and willingness to address the greater need for supplemental watering, wind protection, and/or shade that may be necessary in the weeks immediately following a later planting.

Container-grown stock planted through fabric that has been properly placed a year in advance may be planted up to June 30. Refer to "Installed Fabric Site Preparation" for details. Before initiating a late June planting through fabric (past the cutoff date for all other plantings), ensure a minimum 2-foot depth field capacity soil moisture is present beneath the installed fabric and herbaceous wind barriers are at an effective height to protect the new planting.

Fall planting of trees and shrubs, excluding direct seeding, should not be attempted since consistent survival across the State has never been demonstrated.

Immediately after, or during planting of all stock, whether by hand or machine, pack soil firmly around each plant to eliminate air pockets. Proper adjustment and operation of the tree-planting machine will eliminate the need to pack the edges of tree rows with tractor tires or feet.

Planting - Bare Root Stock (Seedlings, Transplants, Rooted Cuttings)

Rooted stock will be planted in a vertical position with the root collars approximately ½-inch below the soil surface (see Figures 1, 4, 5, and 6).

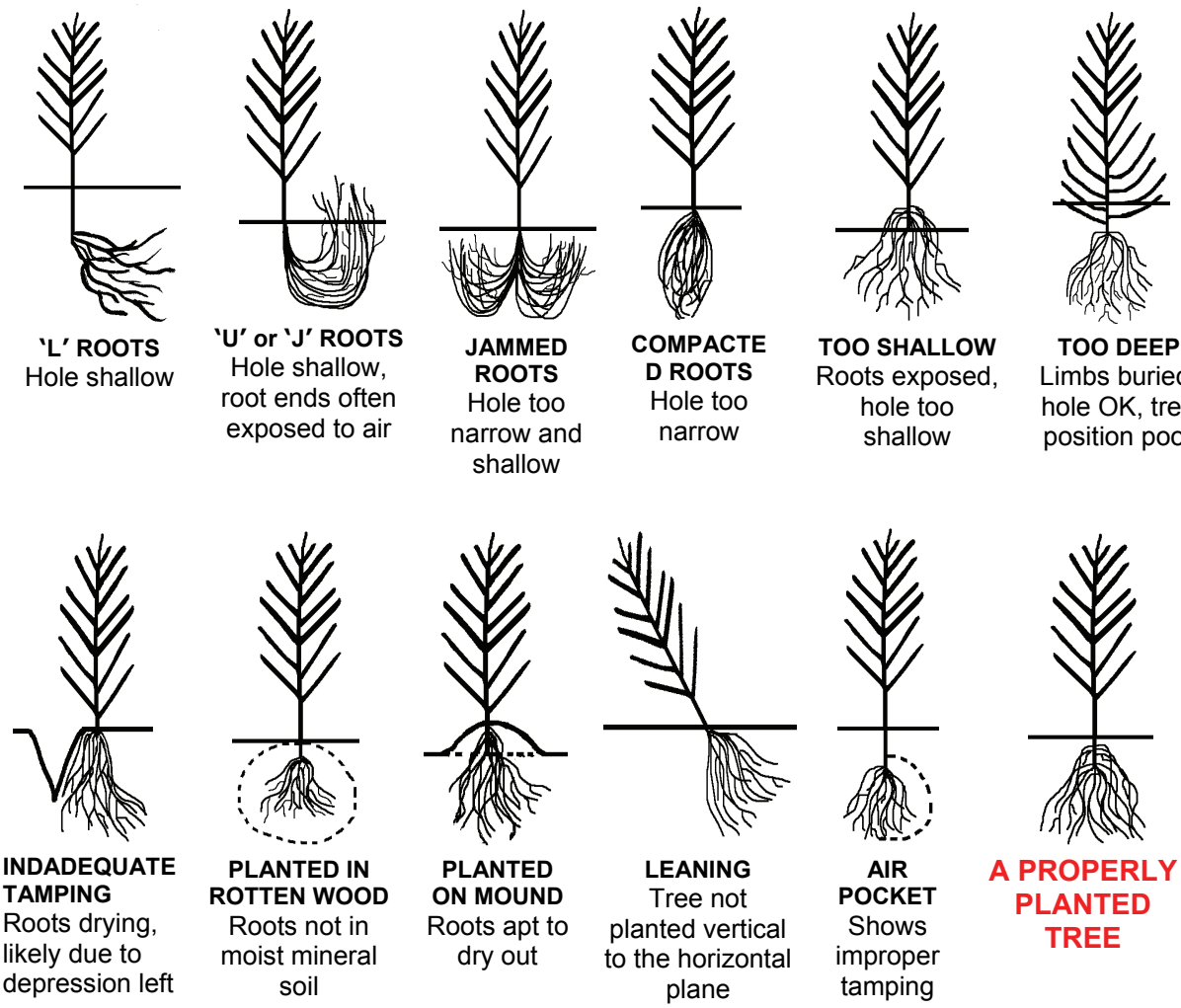


Figure 6: Examples of improperly planted trees.

The planting trench or hole must be deep and wide enough to permit roots to spread out and down without J-rooting or L-rooting. Trim straggly roots of bare-root stock as needed to prevent J-roots, L-roots, broken roots, or wadded roots that may result from "stuffing" too many roots into the planting shoe. Do not over trim roots (see Figure 6).

Planting - Unrooted Cuttings (Willow, Poplar and Dogwood Species)

Base ends of longer cuttings, or the entire cutting if smaller, should be soaked for 10-24 hours before planting. If cuttings have been stored for more than one week, recut the base end at a 45 degree angle to maximize water uptake. Cut back until the cut is in green tissue.

Planting may be by hydraulic jetting, hand dibbles, shovels, tree planters, or probes.

Insert cuttings to the depth required to reach adequate soil moisture with one to two buds sticking above the soil surface. (Note: Depth to growing season water table must be determined before obtaining cuttings to ensure cuttings are

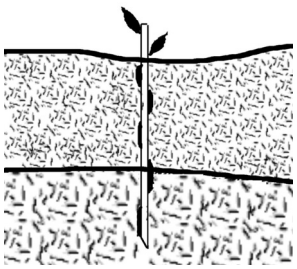


Figure 7: Unrooted Cutting

sufficiently long enough to reach the water table.) Make sure that the base end is planted down (see Figure 7).

When using shorter cuttings through a traditional tree-planting machine, ensure the soil is firmly packed against the cutting. Shorter cuttings may require supplemental watering to ensure survival and establishment during the first year.

When planting by hand, ensure the planting hole is large enough to prevent stripping or damaging the bark and buds.

Once the cutting is in the hole, ensure that voids are eliminated either by packing around the cutting or by using hydraulic jetting to prepare the planting hole.

When planting by hand, avoid excessive force that may kink or break the cutting.

Planting - Container-grown Stock

Remove container stock from the pots, blocks, wire baskets, etc. in which they were grown, if not already done by the nursery. Balled and burlap (B&B) stock can remain in the burlap ball but all ties must be removed from around the trunk and the burlap rolled back off the top of the ball, once placed at the proper depth in the planting hole.

Some potted or B&B stock may have developed girdling roots. If so, the root ball should be gently manipulated and the roots spread radially from the trunk of the tree. In essence, this becomes a bare root planting.

Container-grown stock should be planted so the

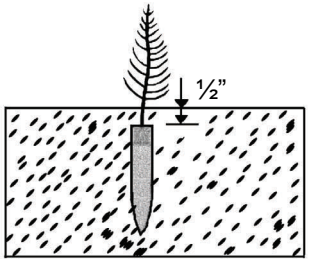


Figure 8: Container-grown planting depth

top of the root ball or plug is covered with just ½ inch of soil (see Figure 8). Some nursery practices result in several inches of soil covering the top roots in the pot. This excess soil should be removed so that proper root planting depths can be achieved. Planting too deep is detrimental to tree health for most species.

During planting, ensure the root ball stays moist. Do not soak in water.

Planting - Natural Regeneration

This method should only be attempted within the 10-50 year floodplain of the following stream systems.

- All perennial streams and tributaries of the Red River in the counties bordering the Red River.
- Scattered segments of the Souris, James, and Sheyenne Rivers.

At least 2 seed producing (nearly mature or mature) trees within 200 yards of the planting site are needed for species producing seeds with samara (wings). Healthy seed producing cottonwoods or willows may be as far as ¼ mile from the planting site. Species that have seeds with no samara (wings) or fluff, shall be within 50 yards of the planting site. Wildlife or floodwaters may bring in other species of trees and shrubs.

Natural regeneration sites, especially riparian sites, will be quite weedy for several years after seeding. High stem counts per acre (in excess of 10,000 trees per acre on some sites) will eventually shade out the weeds. Stem counts of 500-700 stems per acre will satisfactorily capture the site, if not browsed by wildlife, but weed pressures will last longer. High stem counts compensate for heavy deer browse.

Success of this method is dependent upon a good seedbed and seed crop at the appropriate time.

Refer to Natural Regeneration - Site Preparation for guidance in preparing the planting site prior to seed dispersal.

Planting - Direct Seeding

Until more data on the viability of this planting method in North Dakota becomes available, review and approval of each site, planting plan and maintenance schedule shall be obtained from the NRCS State forester.

This method should only be attempted:

- On high water table, run-on, or floodplain sites in the counties bordering the Red River.
- Between the 10 and 50-year flood elevations on scattered segments of the Souris, James, and Sheyenne Rivers. Each site's eligibility will have to be determined individually.

When using this method, it is best to utilize as many species as are available and suited to the site. Mortality and predation of seed will be extremely high with this method, so the amount of seed needs to be increased accordingly.

To determine the amount of seed needed, strive for 15,000 emerging seedlings per acre by the end of the first growing season.

Determine the percentage of each species to be in the mix.

Using purity of seed, amount of hard seed, and percent germination (usually available in seed production manuals), determine how much seed is needed. Example: For basswood to be 20 percent of a mix: 15,000 emerging plants x 20 percent of the stand / 80 percent purity / 2 percent germination / 3,000 seeds per pound = 62.5 pounds bulk seed per acre.

Tree seeds are very particular with respect to depth of planting. Tree seeds generally respond best when seeded to a depth of 1-3 times the diameter of the seed. For species such as quaking aspen or birch, this means they should be placed on the soil surface. For hackberry, basswood, ironwood, etc. plant 1/4 to 3/8 inch deep. Oak, walnut, and similar-sized seed should be planted 1-2 inches deep.

Understand the requirements of each species to know the best time to seed. Some species need a warm-cold-warm stratification period while others need a cold-warm stratification period. Some species such as white oak begin sprouting within days after falling from the tree in natural conditions. In other words, some species are planted in the summer, some in the fall, and some in the spring. For specific information about each species, look in the "Woody Plant Seed Manual".

MAINTENANCE AFTER PLANTING
Weed Control, All Methods

Competitive vegetation will be controlled for a 3-foot minimum radius around each plant for at least 3 years after planting.

To minimize erosion risks and to improve conservation and wildlife benefits, consider leaving, or planting non-sod-forming grasses such as blue grama or sideoats grama, outside the 3-foot minimum weed-free area. Utilize “patch” weed control methods to maintain a 6-foot diameter weed free zone around each plant or a 3-foot wide weed-free band along each side of each row. As the planting matures, the herbaceous vegetation strips will get narrower as the tree and shrub rows get wider, shading out the warm-season grass.

Only a few herbicides are available for controlling weeds on natural regeneration and direct seeding sites. Effective weed control on

these sites usually does not begin until the large number of tree seedlings form a canopy that will suppress the herbaceous weeds. Landowners should be made aware that these two planting methods will look weedy for five years or more.

Aggressive sod-forming grasses such as smooth bromegrass, Kentucky bluegrass, canarygrass, quackgrass, or deep rooted legumes such as alfalfa or sweet clover should be kept from the tree or shrub area for the life of the planting.

Provide a 10-foot wide weed-free zone around the entire planting to serve as a fire break, aid in weed control, and reduce perennial sod encroachment. In areas prone to erosion or to meet owner's wishes, this area could be planted to a fuel break of non-competitive grass and kept short with regular mowing. Fuel breaks provide excellent access for fire fighting personnel and equipment; however, by themselves, they usually don't stop wildfires during extremely dry and windy conditions.

For firebreak and fuel break design, refer to the Firebreak Design and Installation Guide in the North Dakota Field Office Technical Guide.

Where overland water flow may create a scour erosion hazard, orient the weed-free zones as nearly perpendicular as possible to the water flow.

Utilize mowing, herbicides, or tillage to prevent invasion of aggressive sod-forming grasses and weeds, throughout the planting, and until tree canopies begin to close. A sparse cover of annual weeds or grasses, outside the 3-foot wide weed-free zone, may actually benefit the windbreak by trapping snow, cooling the soil surface, and controlling erosion.

Weed control may be by tillage, herbicides, or fabric. When using herbicides, follow label instructions. Control of unwanted vegetation should continue until weeds do not threaten the growth and function of the trees and shrubs.

Damage to roots, trunks, and branches from herbicides, tillage, or animals can significantly reduce the vigor of the planting and make it more susceptible to disease and insect damage thereby shortening the life of the planting.

Mechanical Weed Control

Use caution when tilling around trees and shrubs. Poor tillage techniques (too deep, too close to the trunk) can damage trunks, limbs, and roots. Erosion that may result from indiscriminate tillage may remove several inches of soil exposing roots to severe damage by future tillage operations.

Use tillage only when needed to maintain or improve the health and vigor of the windbreak. Tillage, when weeds are not growing, wastes moisture and fuel and increases the risk of mechanical injury to trees.

Chemical Weed Control

Follow label directions when applying the appropriate herbicide to control weeds. Adhere to State or local rules that apply to herbicide applications on tree and shrub plantings.

Some approved herbicides are nonselective and will kill most weeds but must not come in contact with any part of the tree or shrub. Other approved herbicides prevent weeds from germinating or kill newly germinated weed sprouts but will not harm specific trees or shrubs.

Effectiveness of most herbicides used to control weeds in tree and shrub plantings is very sensitive to different application rates, considerably more so than the common herbicides used to kill weeds in lawns. Too little herbicide applied will not provide adequate weed control. Applying too much of some herbicides, or on the wrong soils, may damage or kill trees and shrubs.

Use herbicides only when needed to maintain or improve the health and vigor of the windbreak.

Organic Mulches

Organic mulches may include straw, wood chips, sawdust, chopped corncobs, grass clippings, or other organic byproducts. Mulches are most effective when maintained to the dripline of the tree or beyond. For newly planted stock, they should be placed in a 6-foot diameter circle around each plant to a depth of 2-4 inches. (Finer mulches should be placed to a settled depth of about 2 inches. Coarser mulches require a 3-4 inch depth.) When mulching shrub rows, mulch can be applied in a contiguous 6-foot wide band (3 feet each side of the plants).

Established perennial weeds and sods, must be killed through tillage or chemical prior to mulching. These weeds will grow through most mulches. Small annual weeds can be killed by

applying mulch. Rhizomatous grasses adjacent to the mulch will require regular maintenance as they will usually root into the mulch from the edges.

In situations of higher precipitation, frequent irrigation, or on tighter wetter soils, it may be appropriate to maintain a 4-6 inch mulch-free circle around each trunk to minimize potential trunk problems. In high moisture situations, mulch against the trunk may hold moisture and encourage bacterial growth resulting in bark injury, which could shorten the life of the tree.

Avoid mulches that may contain weed seeds and/ or grain as they may attract rodents. In some situations, seeds and grain in mulch will germinate and become a thick mat of competing weeds.

Lighter and finer mulches are prone to blowing away. Packing firmly with feet or water will increase resistance to blowing. On exposed sites with strong winds, this will still not be adequate. For extremely windy sites, use mulches with large-sized chips or a high proportion of long (10-16") twigs to “tie” mulch together and resist blowing.

Coarse shredded wood mulches such as those produced in tub grinders have ragged ends and tend to interlock. Though not as decorative, as wood chips or the fine shredded mulches, they tend to stay in place. On extremely windy sites mulch may have to be anchored with netting, or select an alternative form of weed control.

Maintaining standing small grain stubble, herbaceous wind barriers, or a growing crop immediately adjacent to the weed free zone prevents mulch blowout, transpiration losses, and harvests snow moisture.

Organic mulches should be reapplied as necessary to maintain weed control. As trees and shrubs mature, organic mulches should be expanded to the drip line. The larger area of weed control benefits the tree and mulch to the drip line reduces tree injuries from maintenance activities.

Synthetic Mulch (Fabric) Weed Control

Synthetic Mulch (Fabric) Quality - All Methods

Fabric shall be of such quality that the manufacturer warrants complete weed control for at least five years.

Fabric must be black or capable of preventing underlying plant growth. Ideally, it should be resistant to penetration by animal hooves. Fabric may be pin-punched plastic, solid polyethylene, woven polypropylene, or some other rot-resistant material. It must prevent plant shoots from pushing through from below.

Fabrics prone to puncture from hooves (pin-punched plastic, solid polyethylene, etc.) can be used only if approved through the ND-NRCS variance process. This is to evaluate effectiveness of this material over time.

The minimum width for continuous rolls of fabric applied by machine will be 6 feet, nominal 4-5 feet weed control width after installation. Individual fabric pieces shall be 6 foot square or 6 feet in diameter. (Research studies have shown that fabric squares less than 4 feet x 4 feet improve growth and survival of trees no more than if no fabric was applied.)

Consider not using fabric on suckering shrubs where a dense thicket is desired or enlarge fabric openings, as illustrated in Figure 12, once plants are established (in or about the third year after planting).

Consider searing or sizing fabric edges on home-cut individual squares of woven fabric to prevent fabric edges from running or being hooked by maintenance equipment.

Fabric Installation - All Methods

Tilled sites should be firmed and leveled in such a way that the fabric will lie flat against the ground across the entire area covered by fabric. Sites should be firmed to barely show an adult foot print, prior to planting.

Improper Weed Control Fabric Installation	Proper Weed Control Fabric Installation
Tree planted in a furrow. Fabric bridged over limbs. Creates an “oven”. Plants killed by heat.	Fabric flush to ground. All limbs above fabric. Trunk kept cool. No rodent runs.

Figure 9: Improper and Proper Fabric Installation

Fabric should not be bridged over ridges or valleys left by planting operations. Fabric not

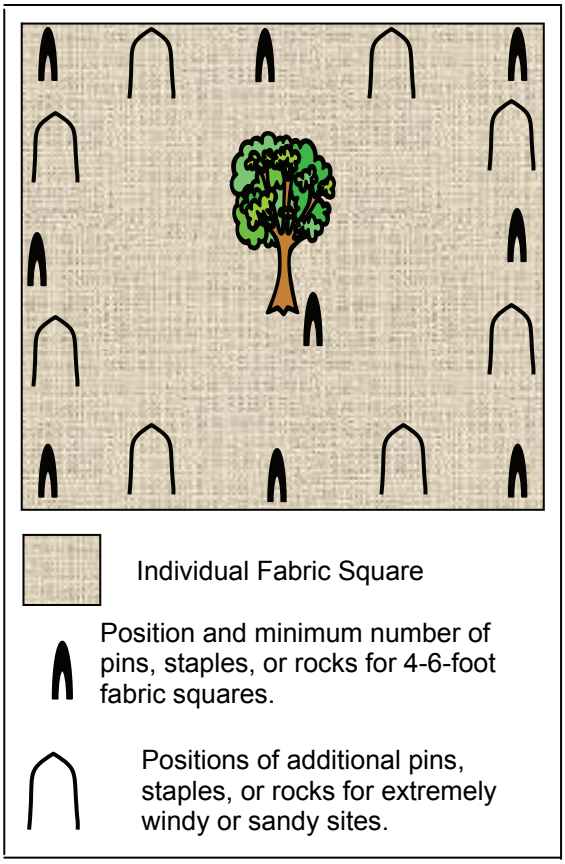


Figure 10: Positions of Pins, Staples, or Rocks for Individual Fabric Squares

flush to the ground around the tree can provide a runway for rodents and trap summer heat sufficient to damage or kill the young plant (see Figure 9).

If a planting trench exists at fabric installation, ensure that the fabric is weighted, pinned or stapled to the bottom of the trench at each tree. The fabric lined trench will funnel runoff to the individual trees in some situations.

If fabric is installed under a no-till situation, excessive vegetation should be removed from the area where fabric will be placed, to reduce rodent habitat and to allow fabric to lie flat against the soil surface.

Openings for trees or shrubs shall be cut with a sharp instrument to avoid tearing of fabric or "running" of individual fabric fibers.

Openings shall be X, C, L or J-shaped. Length of slit should not exceed 12 inches. Do not use I-shaped (straight) slits as abrasion of tree bark can occur.

When fabric is placed over plants before openings are made, use care to avoid cutting the plant when making the opening. Trees and shrubs must be pulled through the fabric within minutes after installation to avoid damaging temperatures created by the fabric "oven."

Ensure fabric edges are firmly anchored.

Fabric is not recommended within floodplains. One flood event could cover the fabric with silt, eliminating its effectiveness, or flood flows could tear out the fabric and trees caught in the fabric.

Do not cover weed control fabrics or plastics with organic mulches. These materials will delay the breakdown of the fabric or plastic, possibly causing damage to the plant, and provide a medium in which weeds can flourish.

Installation of Individual Fabric Pieces

Individual fabric pieces shall be at least 6-foot square or 6-foot in diameter.

Use landscape fabric staples, pins, or rocks to anchor fabric. Do not use soil to anchor individual fabric pieces. Individual rocks should weigh at least 5 pounds to resist being moved by wind or water.

Six-foot squares shall have each corner and the midpoint of each side anchored, as well as a point near the tree or shrub (see Figure 10).

Pins or staples shall be of sufficient length to resist movement, based on soil textures. Follow manufacturer recommendations for staple length.

Installation of Continuous Fabric Strips.

Site preparation, if tilled, shall be at least 10 feet wide to allow enough loose soil to properly anchor fabric.

Fabric strip splices shall be anchored with staples, pins, or rocks. Staples and pins shall be of a length recommended by the manufacturer for the particular soil texture. Rocks must weigh at least 5 pounds. Do not anchor splices with soil. When splices are made with field-cut fabric ends, consider tucking a few inches of the cut end under itself to reduce the risk of snagging the fabric with maintenance equipment.

In lighter soils, or in high wind areas, pins, staples, or rocks may be needed to anchor the fabric at each opening. On extremely vulnerable

sites, an additional pin, staple or rock may be needed every 10 feet or between each tree, whichever is greater (see Figure 11).

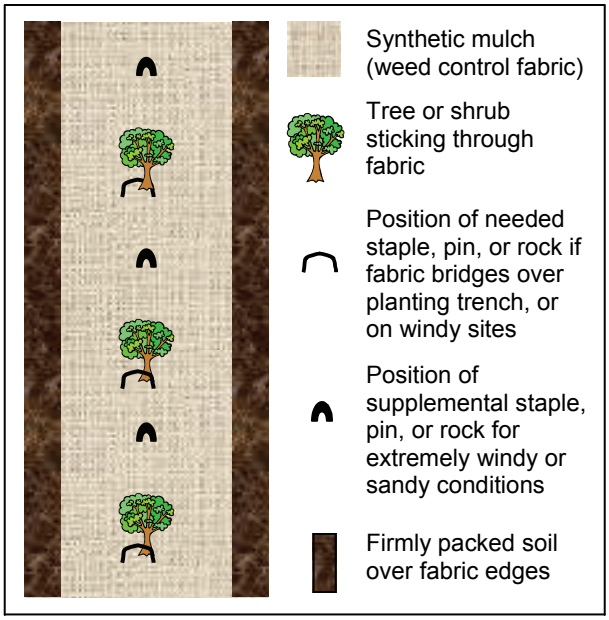


Figure 11: Positions of staples, pins, or rocks for continuous fabric strips.

Machines must be adjusted to ensure 10-12 inches of fabric edge is firmly anchored in the soil (see Figure 9). After installation, it is often necessary to run a tractor or truck wheel over the edge of the fabric to get a firm seal.

Check-dams across the furrow or slight grading of the site may be necessary on sloping land to prevent water from running along the edge of, and uncovering the fabric.

Where fabric crosses larger waterways or areas of concentrated flows, the fabric shall be spliced on either side of the waterway. This is to prevent heavy runoff events from washing out an entire strip of fabric and potentially damaging 300-500 feet of tree row. The smaller spliced section may still wash out, but only a small amount will have to be repaired or replaced.

Pins or staples, instead of soil, may be used to anchor fabric edges. The fabric must lay flat against the soil and the pins or staples must be placed every 3 feet, along the fabric edge. On sites exposed to extremely high winds or on loose soil, pins or staples may need to be closer than 3 feet.

When installing fabric on curves, use extra care to ensure that 10-12 inches along each edge gets covered and packed with soil. Ensure the fabric is not so tight that temperature changes pull the fabric loose. Use pins, staples, or rocks to tack excessively large "puckers" to prevent wind damage. Even when covered with soil, outside edges of curves may need to be pinned or stapled.

Where fabric is desired on a curved planting with a short radius, it may be better to break the curve into short, straighter segments to ensure better quality and easier fabric installation.

Management of Fabric Following Installation

While annually checking the survival, vigor, and form of trees and shrubs, inspect the fabric to:

- Ensure all fabric edges are firmly anchored.
- Ensure openings in fabric are not damaging trunks. Enlarge as needed (see Figure 12).

Remove weeds, soil, or clippings that may have accumulated on the fabric before they become a rooting medium for weeds.

If tilling between fabric pieces, use extreme caution to avoid hooking fabric with tillage tools. Damage to trees and/or fabric may result. Control erosion in tilled areas to prevent silt from accumulating on fabric.

If mowing between fabric pieces, do not allow herbaceous matter (grass clippings) to accumulate on the fabric. Such accumulations will initiate germination of weeds and grasses, reducing the usefulness of the woven types of fabric.

Strongly rhizomatous grasses, such as bromegrass, quackgrass, or canarygrass along the perimeter of the fabric piece should be suppressed or controlled with mowing or herbicides. If not controlled, their extensive root systems will suppress tree growth, even with fabric. They will also crowd over the fabric edge, eventually covering most or all of the fabric.

Edges of fabric could be seeded to nonaggressive warm-season grasses such as blue grama, or side oats grama to help anchor the edge of the fabric and to control annual weeds immediately adjacent to the fabric. Refer to “Native Grass Cover,” pages 7 and 8 of this reference, for warm-season grass establishment details.

Every few years, closely examine the areas where plants grow through the openings to ensure the fabric is not girdling the plant. Fabric in the shade of the plants will last much longer than the manufacturer's minimum life span. Fabric openings may have to be enlarged as tree stem diameters increase to prevent girdling and death of the tree. A sharp knife on a long handle, or a similar tool, will work well to enlarge openings. Four slits regularly spaced and radiating from the existing opening will expose additional growing space (see figure 12). This method is also effective in encouraging profuse suckering from suckering shrubs.

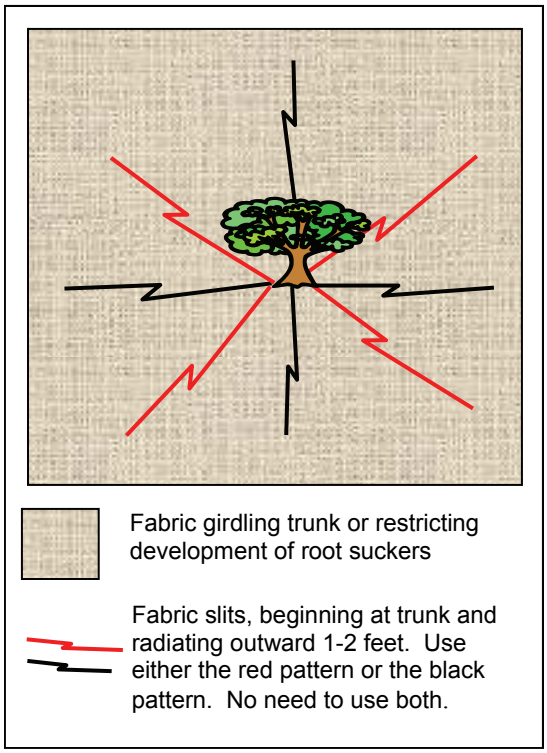


Figure 12: Enlarging fabric openings to prevent girdling or encourage root sprouts

Partial or complete removal of fabric after 5-7 years may be appropriate, subject to rules of financial assistance programs. If removed, regular mowing or chemical weed control should be applied to the area of the removed fabric. Do not use tillage weed control methods after fabric removal as severe root damage is likely.

REPLANTING

Any tree or shrub that fails within the first 3 years should be replaced with a similar plant.

Replanting is essential to maintain the intended function of the planting and should be compatible with soils and climate. Growth rates of most replants (when replanted within 3 years of the original planting date) are usually such that little if any size difference is noted, across the planting, after 10 years. Delays in replanting of longer than 3 years will allow adjacent established tree roots to create greater competition to the replants, resulting in slower growth. On some sites with older established plantings (over 15 years old), replants rarely put on substantive growth nor function as desired.

PREVENTING AND REPAIRING DAMAGE

For All Plantings

Inspect planting annually to spot weather and animal damage needing repair, plants needing replacement, fabric or mulches needing repair, weeds needing treatment, or insect and disease threats that may be developing. Time of the inspection will depend upon the potential for a particular threat, but early spring is a good time to spot most problems.

Supplemental Watering

Tree and shrub plantings should be planned for specific site and soil conditions. During the first three years after planting, supplemental water may be beneficial. In the absence of timely rains add 5 gallons per week to each plant. For year 2 and 3 after planting, apply 10 gallons to each plant every other week. For extreme drought conditions after year 3, add 10 gallons per stem diameter inch, measured 1 foot above the ground, once to twice per month. For more details, refer to the Tree Water Management Fact Sheet.

Weeds

Controlling weeds reduces plant stress and makes the plant less susceptible to certain types of insect and disease damage and better able to withstand weather extremes. Pay particular attention to aggressive sod-forming grasses and State listed noxious weeds. For more detailed information, see:

Weed Control in Tree Plantings

Herbicide Weed Control in Windbreaks and Shelterbelts

Synthetic Mulch (Fabric) Management

Tillage for Weed Control in Windbreaks and Shelterbelts

Warm-Season Grass Cover Between Tree Rows

Insects and Diseases

Inspect plantings at least annually to determine if insects or diseases are threatening the planting. The following texts (links) provide diagnostic and treatment options for many of the disease and insect pests found in North Dakota. Further assistance is available from county extension directors or urban foresters.

Insect and Disease Management Guide for Woody Plants in North Dakota

Deciduous Tree Diseases

Common Insect Pests of Trees and Shrubs in North Dakota

Common Insect Pests of Trees in the Great Plains

Diseases and Related Problems of Evergreens

Animal Damage

In parts of North Dakota, deer, beaver, moose, and porcupines have devastated tree and shrub plantings. Hunting, dogs, fences, repellents, and protective shelters have all been used with varying amounts of success. Methods of control vary considerably depending upon the plant species being damaged, the pest causing the damage, and the value of the woody plants. Contact your county extension agent or your local soil conservation district office for specific control measures that may have worked locally.

The following document summarizes the control methods for deer in North Dakota:
Protecting Trees and Shrubs From Deer

For the most complete reference on wildlife damage and control in North America, refer to Prevention and Control of Wildlife Damage by Hygnstrom, Timm, and Larson, and published by the University of Nebraska Cooperative Extension Service.

Yard and Agricultural Pesticides

Many yard and agricultural pesticides are damaging to trees and shrubs. Misapplication of pesticides may not initially kill trees or shrubs. Depending upon the concentration, the product may kill the plant a few months later, or stress the plant so that it is not able to withstand stresses such as drought or frost several years after the misapplication. Regular sub-lethal doses of pesticides to trees and shrubs, as often happens to field windbreaks, make trees and shrubs even less able to withstand stresses of frost, drought, or weeds. When applying these products adjacent to woody plantings, be alert to wind and temperature conditions and be fully knowledgeable of the label restrictions and precautions for each product applied. Second only to weeds, misapplied pesticides damage more trees than any other cause.

Weather

Other than keeping the plant healthy, there is not much one can do to prevent weather problems, however, when weather damage is swiftly corrected, subsequent storms are less likely to cause further damage. Proper selection of species for the site and individual plant placement within a planting may reduce weather-related problems such as snow and ice breakage, wind throw, or drought. See details on pruning below for correction of weather damage.

Protective Tree Shelters

A wide assortment of tree shelters exists in the market place. They range from 1 foot tall to 6 feet tall, from solid tubes, to flat sheets that fold into tubes, to plastic meshes. All are effective in preventing certain kinds of damage.

One of the more common tree shelters in North Dakota consist of tubes, or flat sheets that fold into tubes, that range from 2-6 feet in height and form a 3-5 inch cylinder around the tree. These shelters protect the tree from wind, sun, small mammals, rodents, and deer, encourage faster initial growth, and provide an opportunity for much easier herbicide applications. Five-foot or taller shelters are most effective at preventing deer browse. Deer may still browse plants at the top of the 5-foot tubes, but trees can usually grow past the browse risk.

Tubes are usually tied to wood stakes with plastic ties. Tubes should not be removed for several years after the tree has emerged from the top of the tube. This period of time is needed for the tree to develop adequate stem diameter to withstand wind. Removal of the tree shelter just as the tree reaches the top of the tube will often result in a tree that "lays on the ground" or is broken off at the first strong wind.

There may or may not be merit in raising the tubes a few inches off the ground in the fall to help the tree "harden off." There is no conclusive evidence to indicate one way or the other. If there were value to raising tubes in the fall, it would probably be most beneficial on tree species planted outside their native range of occurrence. If there is a desire to assist tubed trees in hardening off for the winter, lift the tubes about 6" at the first of October, and return them to the soil surface at the end of October. Some manufacturers offer vented tubes that eliminate the need to raise and lower tubes.

Manufacturers should warrant the tubes for at least 3 years before they start breaking down from ultraviolet light. Follow the manufacturer's instructions for installing specific brands of tubes.

After tubes have served their purpose, the tubes, ties, and stakes must be removed to prevent mechanical injury to the growing tree trunk.

Pruning

When applied in a timely manner and properly completed, pruning can greatly improve the life and function of trees and tree plantings. As explained in the references below, there are certain times of the season that are more beneficial for pruning certain species. Generally, pruning is best for the tree when conducted during the dormant season (after leaves fall.)

For most homeowners, however, if the desire to conduct a quality-pruning job has struck, it is best to prune at that moment rather than wait for the "best" time to prune. Quite often, the desire to prune may not strike for another decade and the size of the pruning job and the stress to the tree will have grown exponentially.

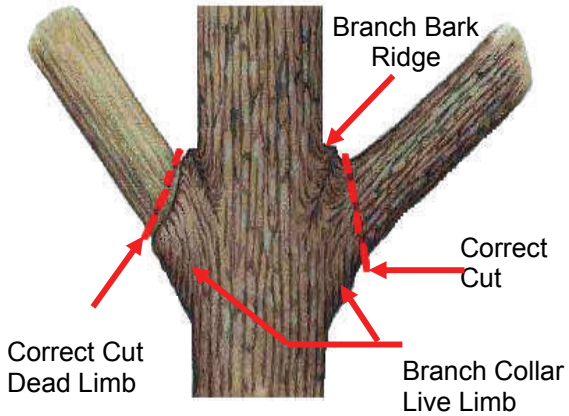


Figure 13

For pruning storm damage, it is best to prune soon after the storm to reduce the area of jagged open scars and potential for disease or insect attack. Another reason to prune storm damage immediately is to reduce hazards to life and property from weakened and damaged trees. Attempt only those pruning jobs commensurate with skills, experience, and equipment of the person doing the pruning. Pruning can be hazardous to those not properly prepared.

The branch bark ridge (see Figure 13) is a raised ridge on top of the limb between the main trunk and the limb. It is a good indicator of the proper pruning position. The branch collar is a slightly swollen area around the base of the limb where it attaches to the trunk. The branch collar contains specialized cells that help the wound to close after a pruning cut. The branch-bark ridge and the branch collar are excellent guides for properly locating pruning cuts. Avoid damaging the branch collar or branch-bark ridge, as the wound will take much longer to callus over.

In most cases, weather and animal damage resulting in broken, scarred or twisted limbs, along with double leaders can be easily corrected with a hand pruner (see Figure 13). Generally, trees should be trained to have a single main stem without v-shaped branch angles on the main trunk. Double leaders and weak branch angles leave a tree susceptible to subsequent breakage, loss of function, and decreased life.

More detailed instructions can be found in: "Pruning Trees and Shrubs"

"Tree Shrub Pruning," conservation practice in Section IV, North Dakota Field Office Technical Guide

Staking

Most newly planted trees shorter than 5 feet in height do not need staking. For those with smaller root balls or those greater than 5 feet in height, the following diagrams illustrate 2 staking methods. Trees should not be staked for more than 2 years, in most situations. Tree trunks need to develop wind hardiness, which is not possible when tightly staked for longer periods of time.

Figures 14a and 14b illustrate two different ways of staking trees. Wires and ties used in staking should not be so tight that the tree can not move

at all. Some movement is desirable. Stakes are to restrict movement during high winds that could uproot the tree.

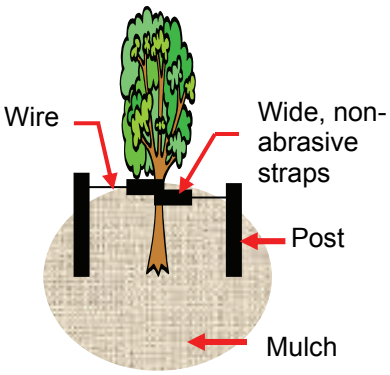


Figure 14a: Staking With Two Posts

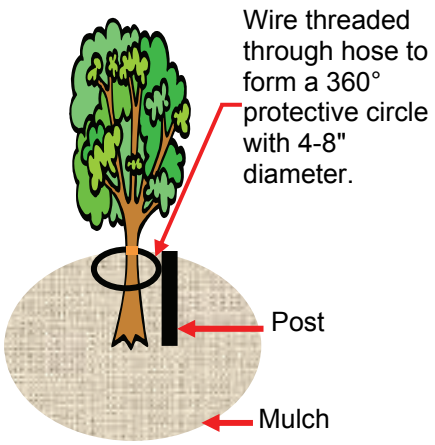


Figure 14b: Staking With One Post

Tipped Trees

Trees older than 5-10 years that have been tipped due to high winds and saturated soils can rarely be pulled back straight. If most of the main roots have not been broken or torn, the trees may stabilize at their new "angle" and continue to grow well. Many will appear straighter with time, but part of the trunk will likely still have a crook.

If roots have been broken and torn, or root balls have been tipped from the soil, establish a new windbreak or tree planting and remove the damaged trees when the new planting becomes effective. If the damaged trees are a hazard, or mostly dead, then immediate removal is appropriate.

Younger trees that have been tipped in saturated soils can be guyed immediately after the storm while the soil is still saturated. Use wide, nonabrasive straps around the trunk and do not pull so much that trunk damage occurs. It may be necessary to complete the straightening over several months.

In short, if the tree is healthy on the right site, they rarely tip. If the tree is unhealthy on a poor site, tipping and other storm damage is more likely and the ability to repair storm damage is greatly diminished.

REQUIRED SURVIVAL PERCENTAGE

To determine when a planting can be labeled a success, refer to **Table 1**. Required survivability of individual plants will vary as the purpose of the planting varies. Wildlife plantings can function perfectly well with considerably more missing trees and shrubs than can a windbreak.

Table 1 - Required Survival Percentages For a Successful Tree Planting
Inventoried after "leaf out" during spring or summer of the second year (% of number planted)

Practice	Percent Survival
380 - Windbreaks / Shelterbelt Establishment	85% of all trees or shrubs planted with no two adjacent plants missing
Sound Barrier	
Visual Screen	
Airborne chemical drift	
Wind borne dust barrier	
Living snow fence	
311 Alley Cropping	
391 Riparian Forest Buffer	75% of all trees or shrubs planted
612 Tree / Shrub Establishment	
580 Streambank/Shoreline Protection	50% of all trees or shrubs planted, unless specific sites require a higher survival percentage
644 Wetland Wildlife Habitat Management	
645 Upland Wildlife Habitat Management	

Additional Information:

Please note that all links in this document were current at publication. If you find a broken link contact North Dakota NRCS at 701-530-2082.

Most tree care and management is the same as it was decades ago. However, the science is constantly changing. Newer styles of weed control fabric are being researched and tried. Herbicides are constantly changing. New species are being released on a fairly regular basis.

For now we face the continuing battle with Dutch Elm Disease. Gypsy moth is a constant threat to our hardwoods, if it ever becomes established in the state. Emerald ash borer looms big on the immediate horizon and is likely to have a serious detrimental effect on urban and rural forests. Other insects and diseases exist and can have devastating effects on individual forest resources.

Keep abreast of changing conditions by attending workshops given by agencies, universities, and nurseries. Direct forestry concerns and questions to foresters with the State Forestry Agencies, State Universities, US Forest Service, Urban and Community Forestry Departments or the Natural Resources Conservation Service.

Acknowledgements:

Rachel Bergsagel, Biological Science Technician, Plant Materials Center, NRCS, Bismarck, ND

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Dwight Tober, Plant Materials Specialist, NRCS, Bismarck, ND

Greg Yapp, Forester, NRCS, Huron, South Dakota

Bruce Wight, National Agroforester, NRCS, Lincoln, NE

Dr. Joe Zeleznik, Extension Forester, North Dakota State University, Fargo, ND

Other Resources

Riparian/Wetland Project Information Series No. 17, "Waterjet Stinger: A tool to plant dormant unrooted cuttings of cottonwoods, dogwoods and other species."

Weed Control in Tree Plantings

Windbreak Establishment, University of Nebraska Extension EC 91-1764-B

Windbreak Management, University of Nebraska Cooperative Extension EC 96-1768-X

Windbreak Renovation, University of Nebraska Cooperative Extension EC.98-1777-X

North Dakota Tree Handbook

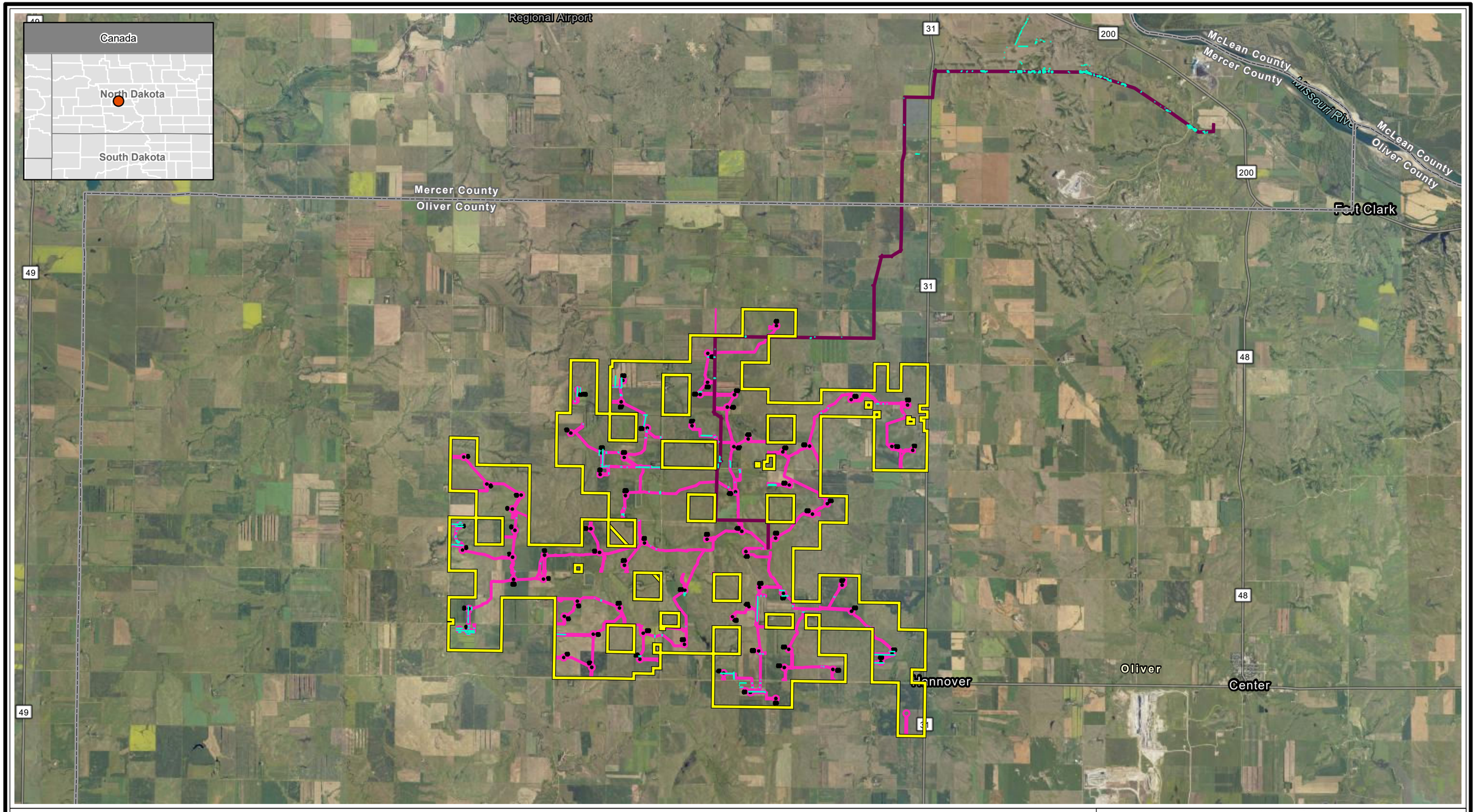
Synthetic Weed Control Fabric Advantages and Disadvantages

Emerald Ash Borer

Tree and Shrub Characteristics

Expected 20-Year Tree Heights and Windbreak Suitability Group Descriptions

APPENDIX C: FIGURES



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Appendix C - Site Overview
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
NextEra Energy Resources, LLC

Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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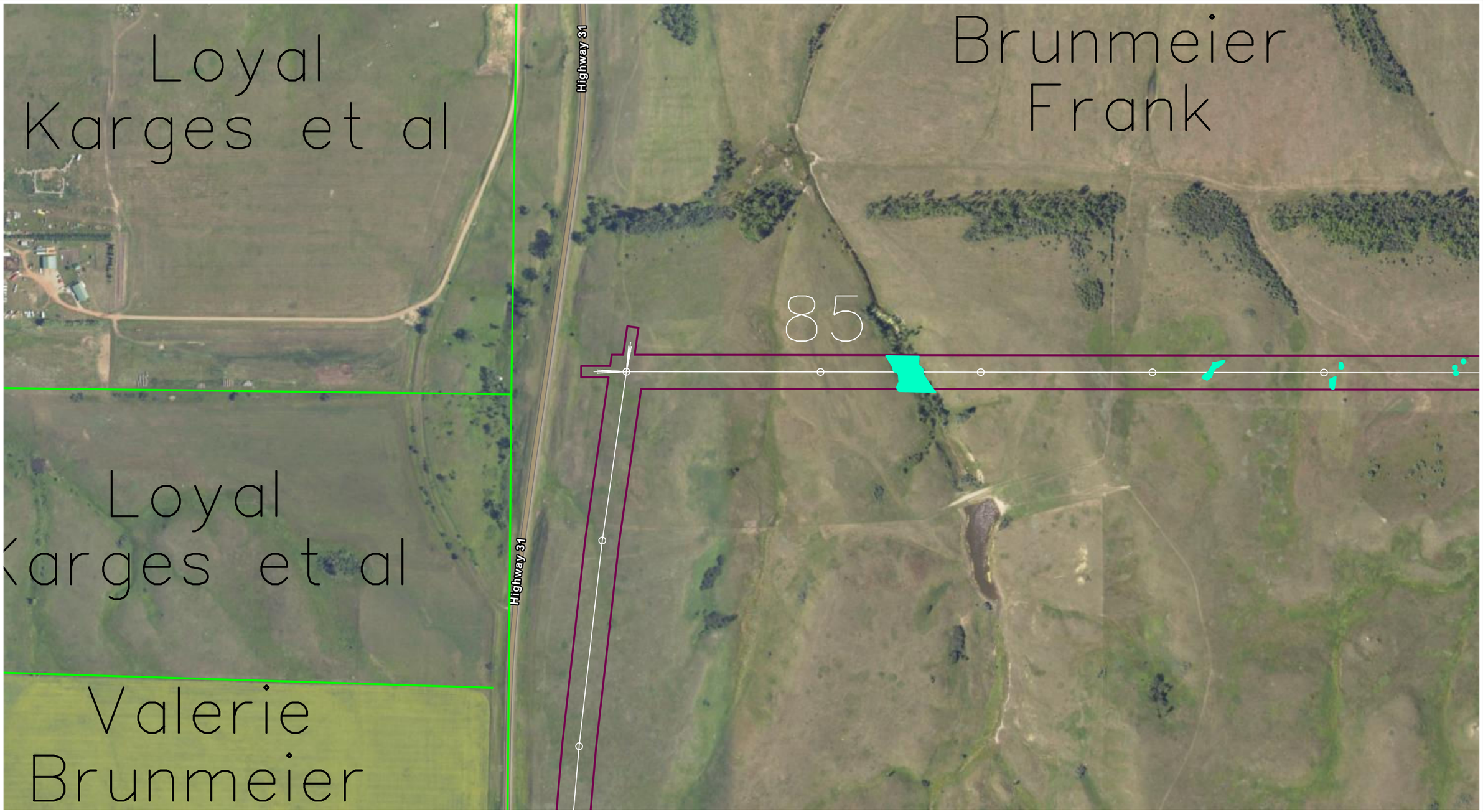

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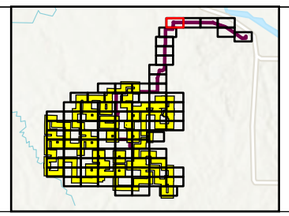

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Appendix C - Page 1 of 90
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Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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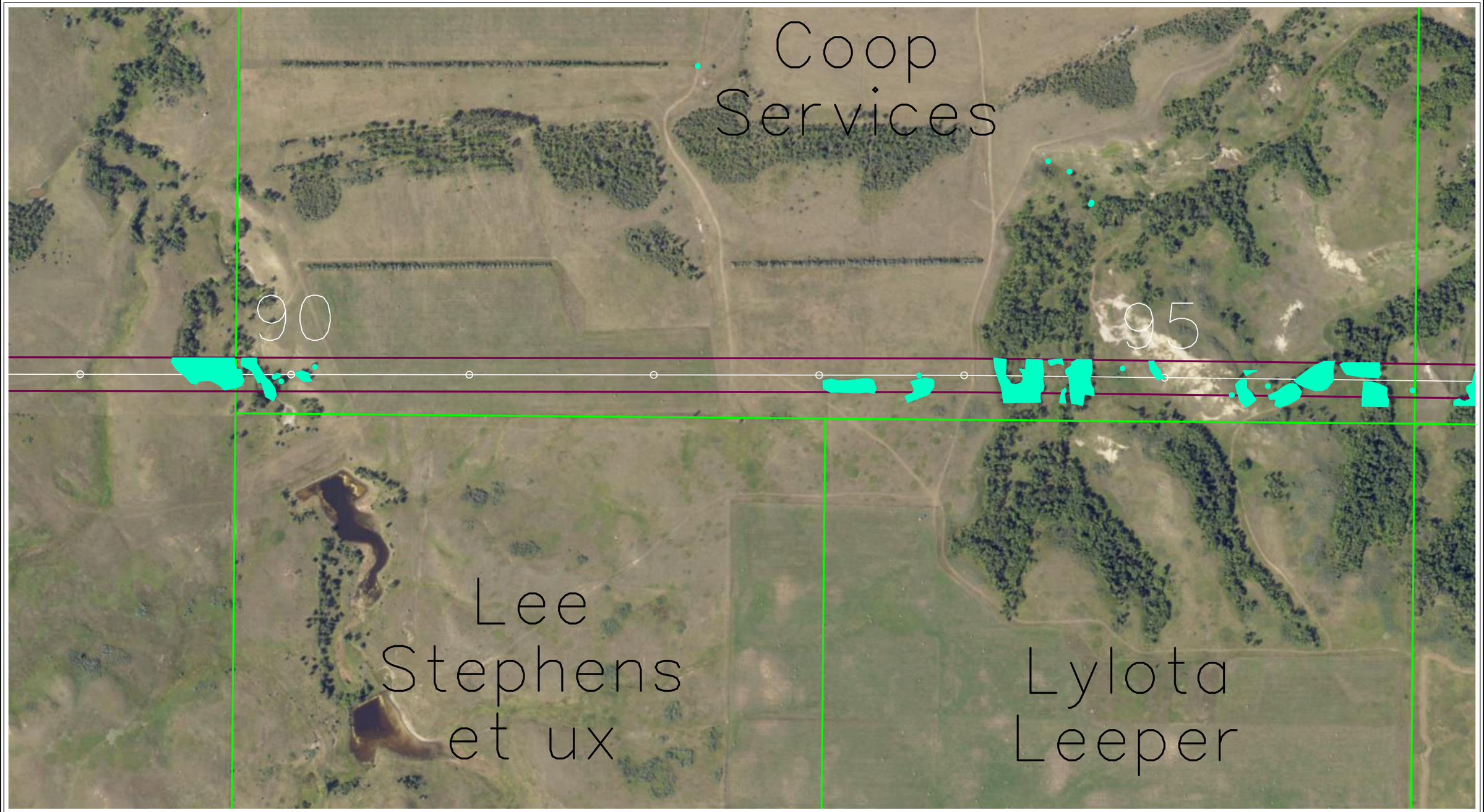

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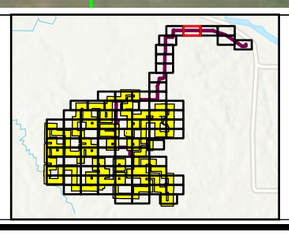

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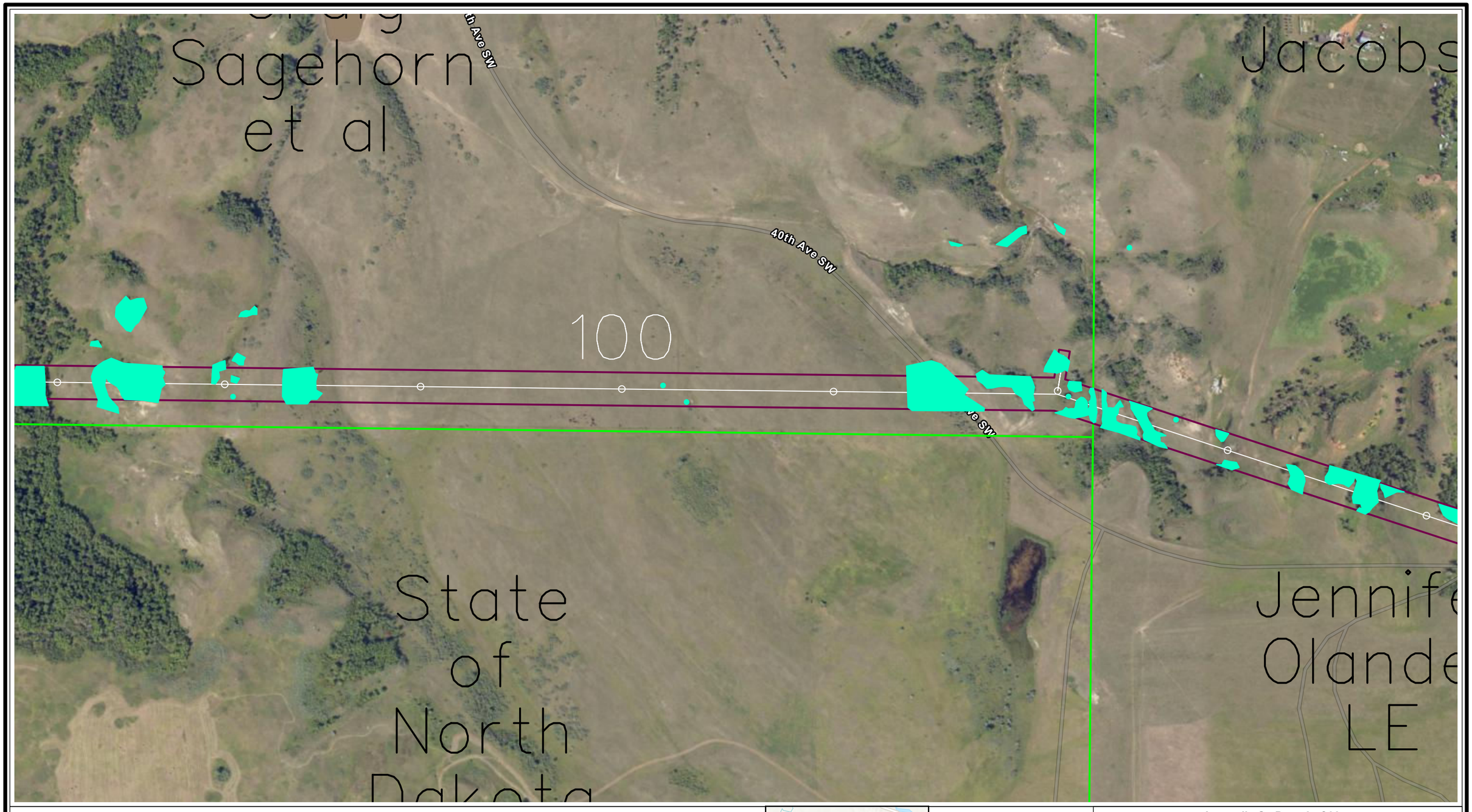

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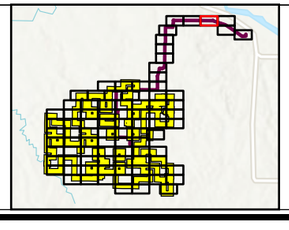

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Appendix C - Page 3 of 90
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Oliver Wind IV
Oliver & Mercer counties, North Dakota
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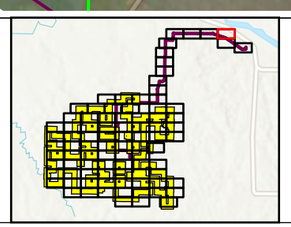

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Appendix C - Page 4 of 90
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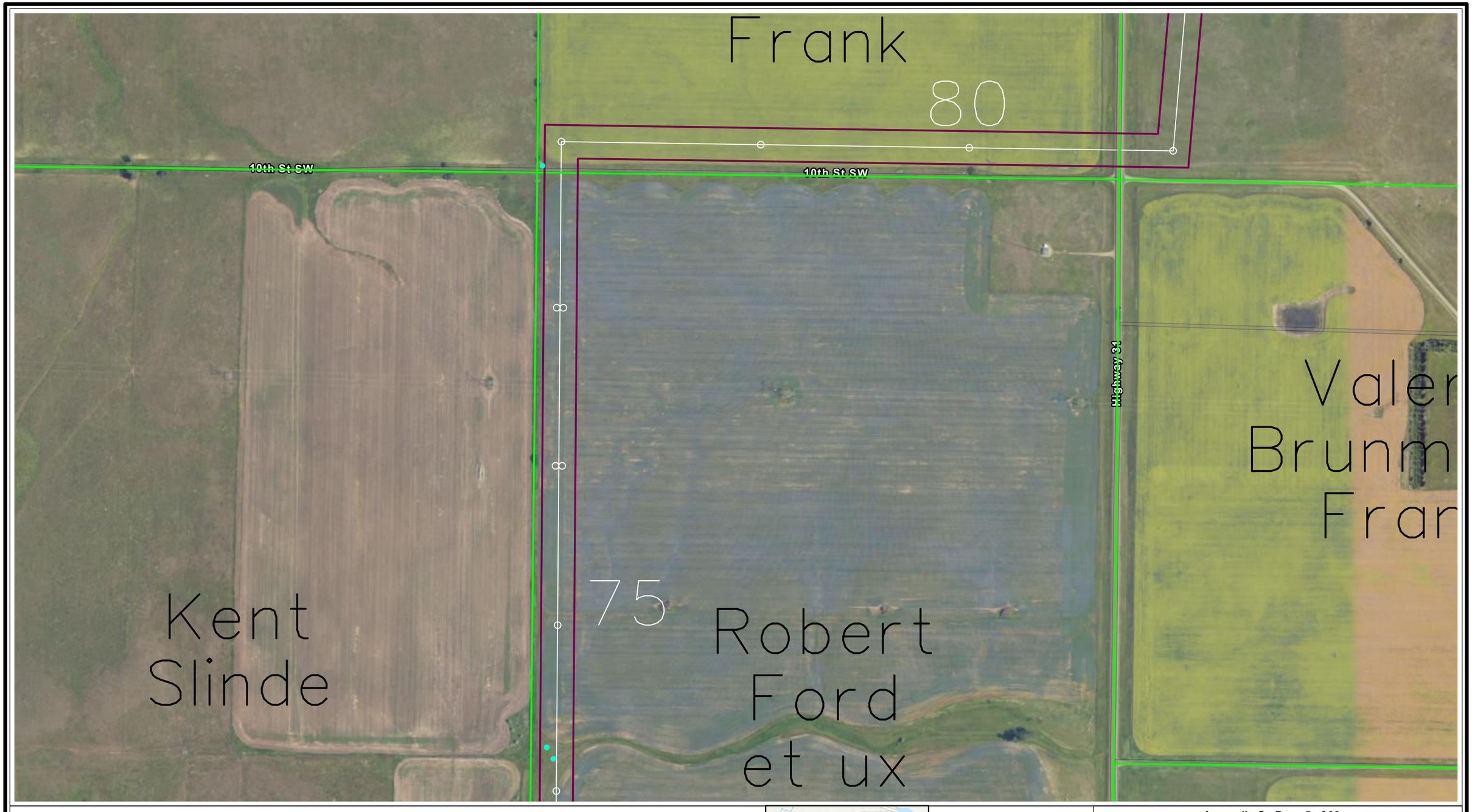

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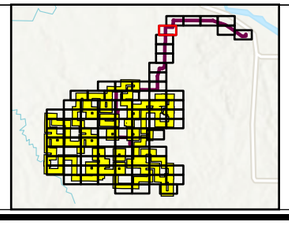

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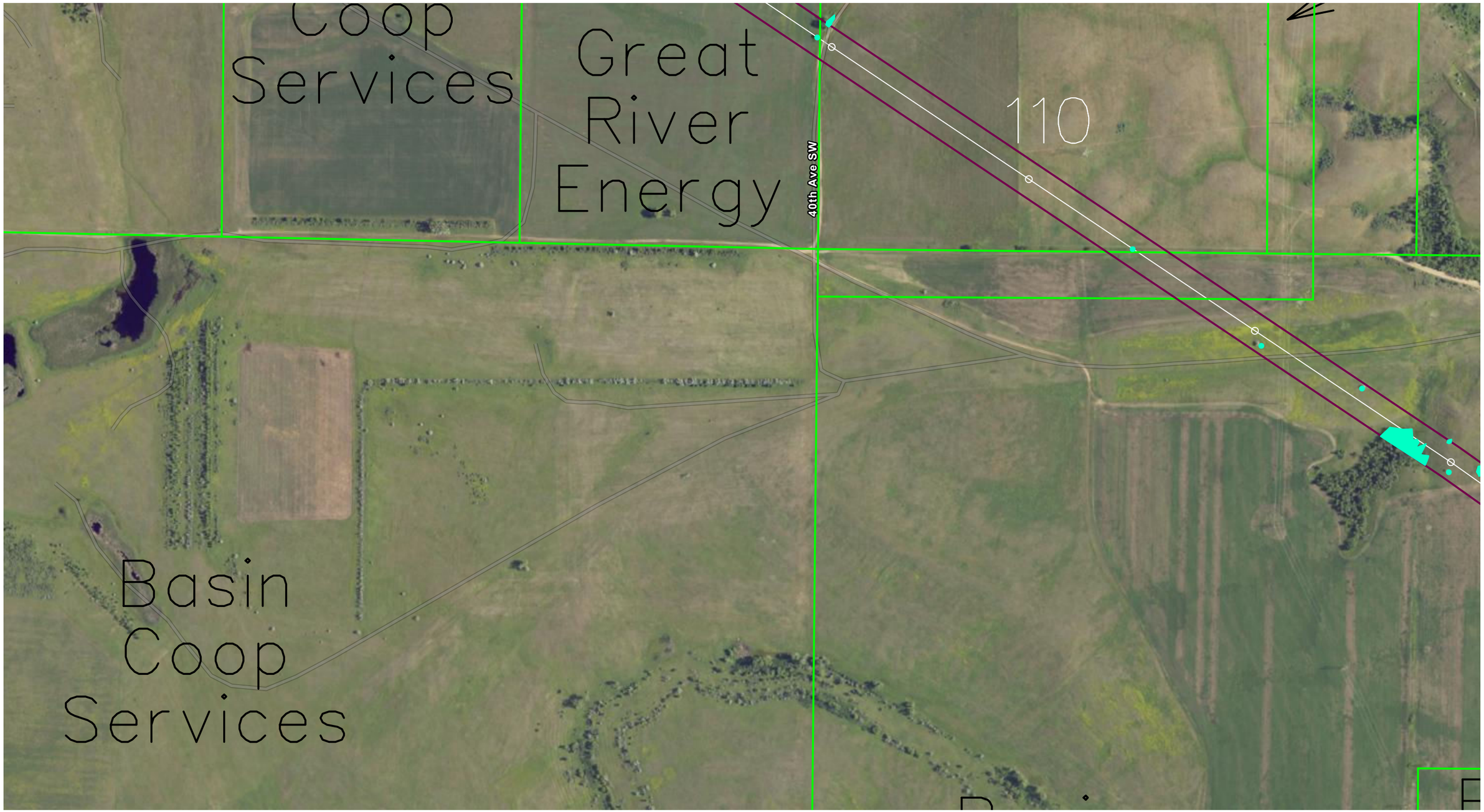

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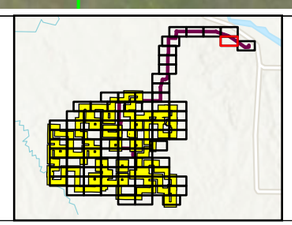

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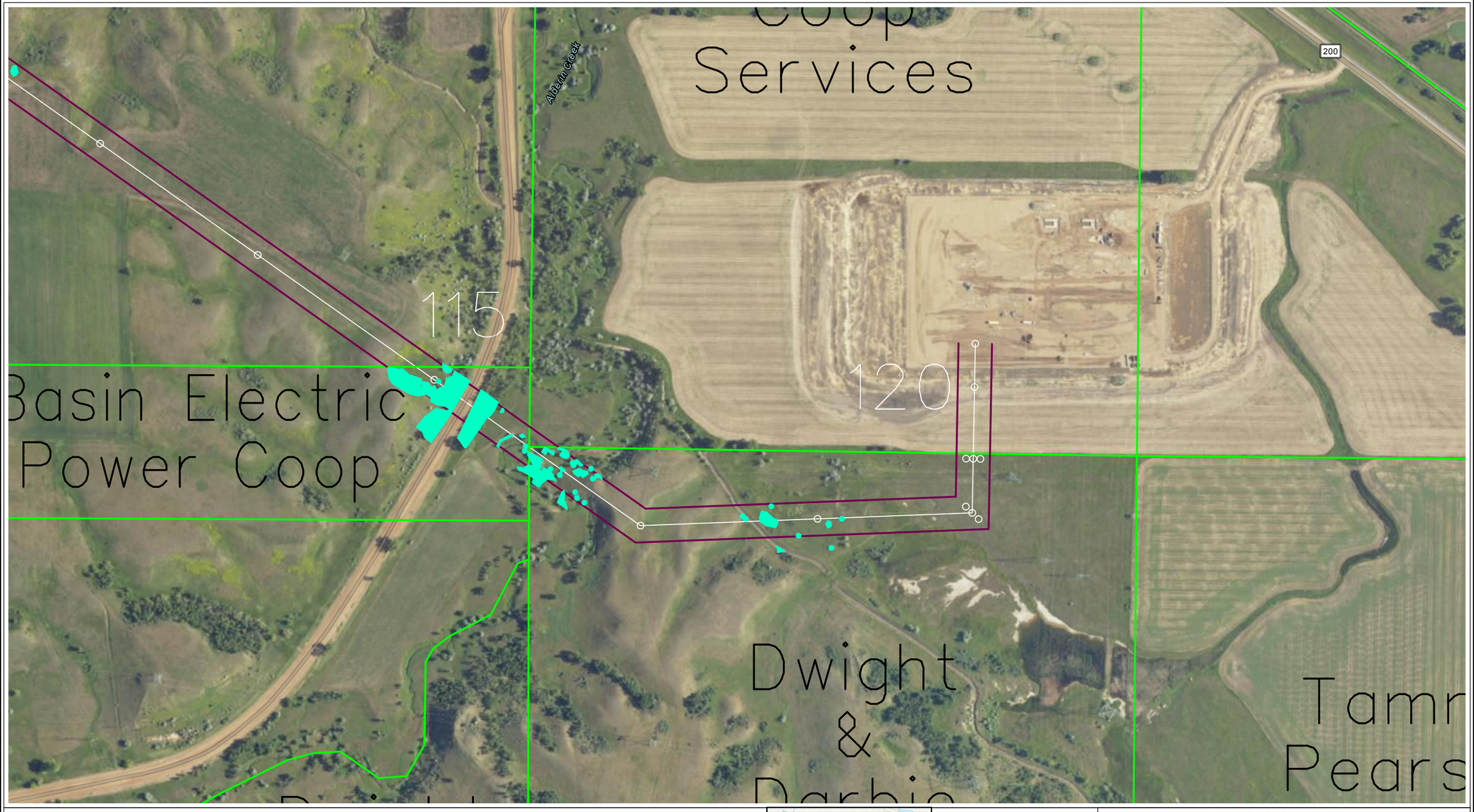

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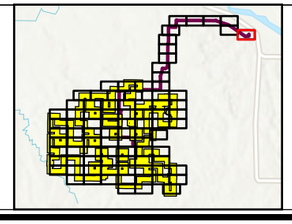

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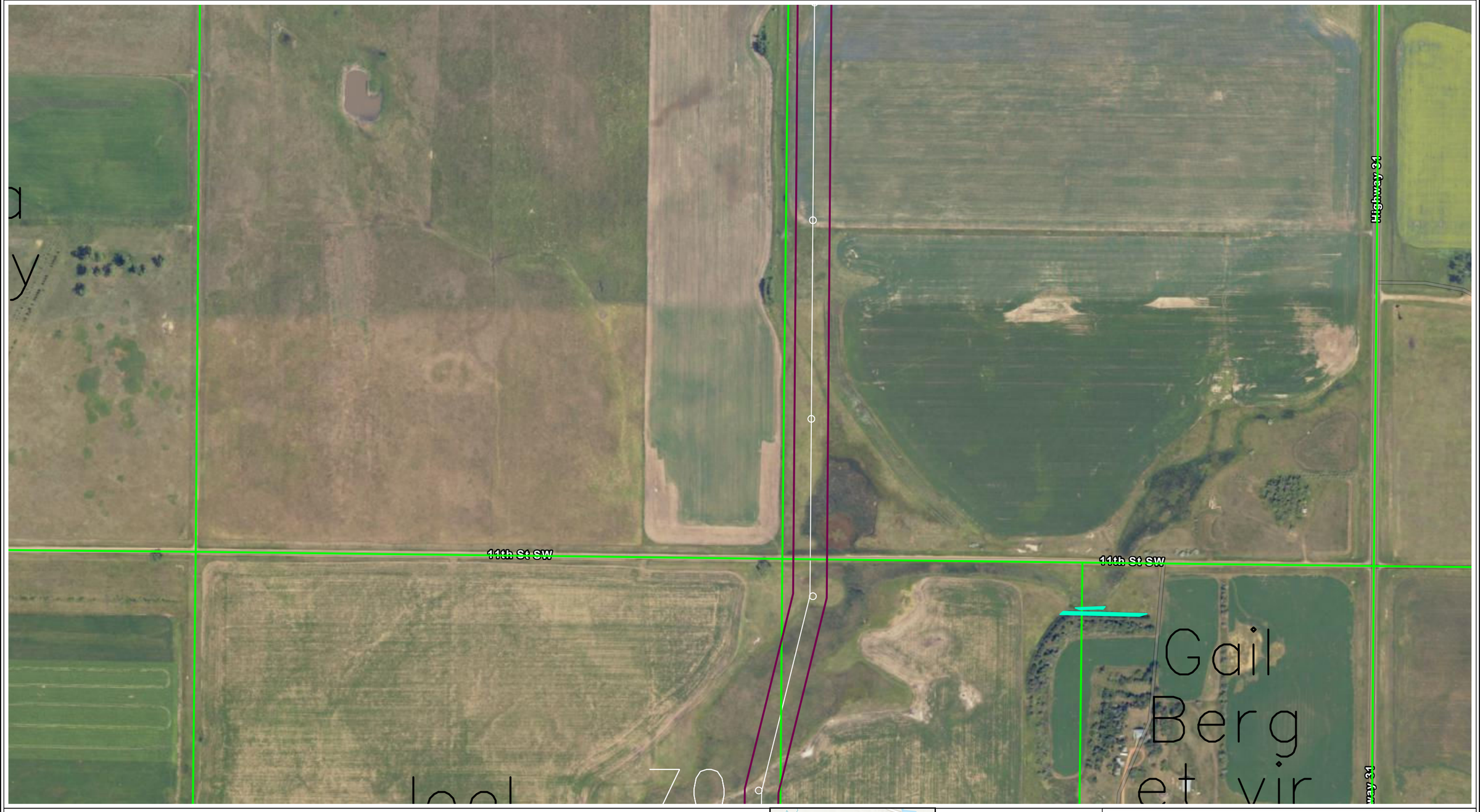

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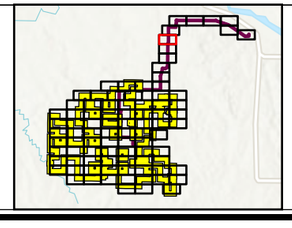
Transmission Easement
Tree or Shrub Removed



N

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Feet

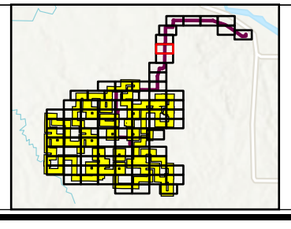
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 8 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Joel
Pfliger

Project Area (± 24,677.20 Ac.)
Transmission Easement



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Feet

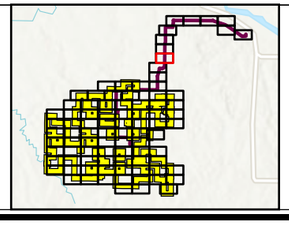
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 9 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Project Area (± 24,677.20 Ac.)

Transmission Easement



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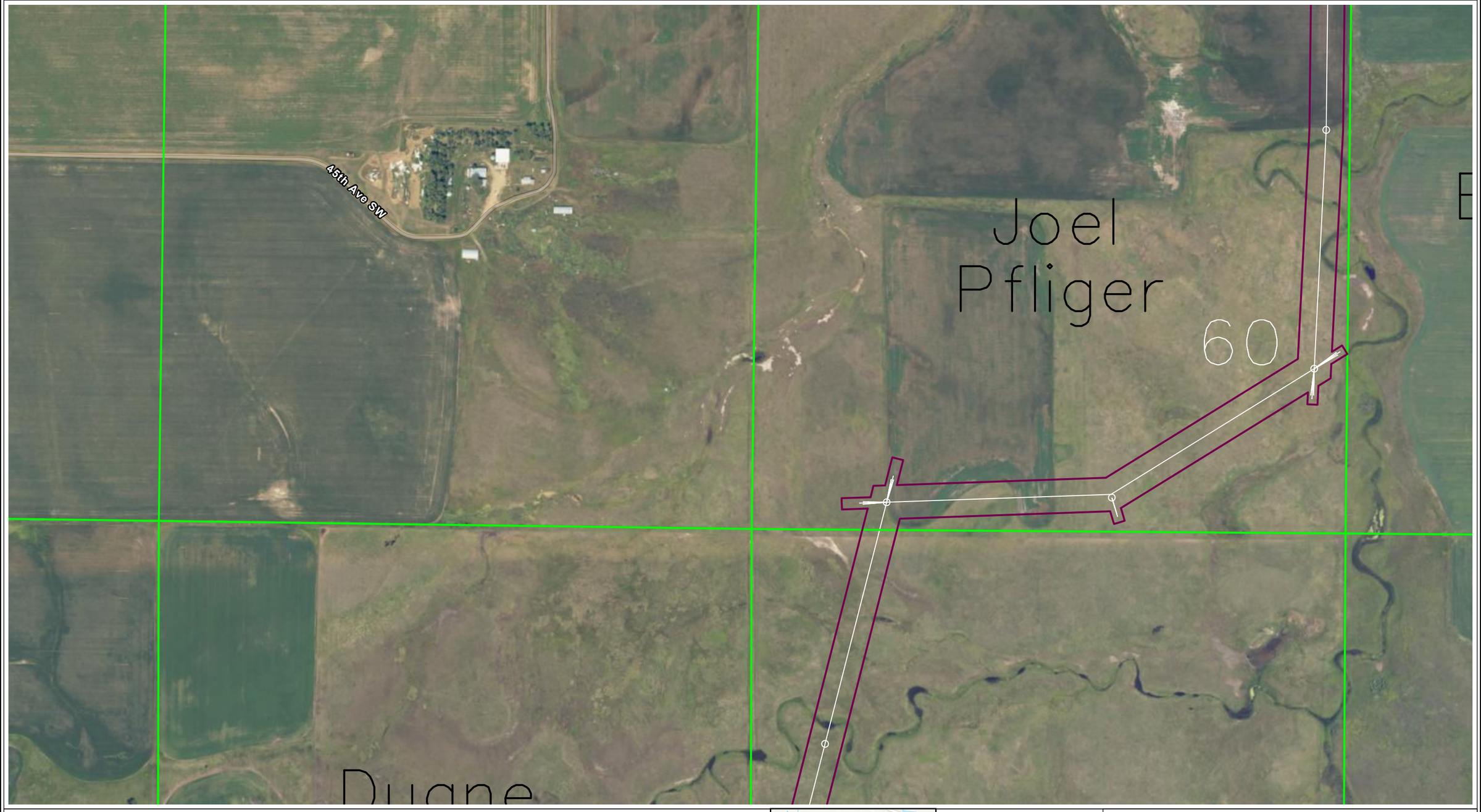
Feet

Base Layer: NAIP Aerial Imagery 2023

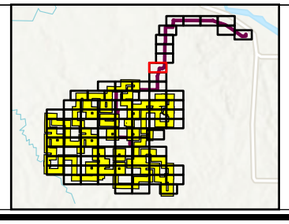
Appendix C - Page 10 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)

Transmission Easement



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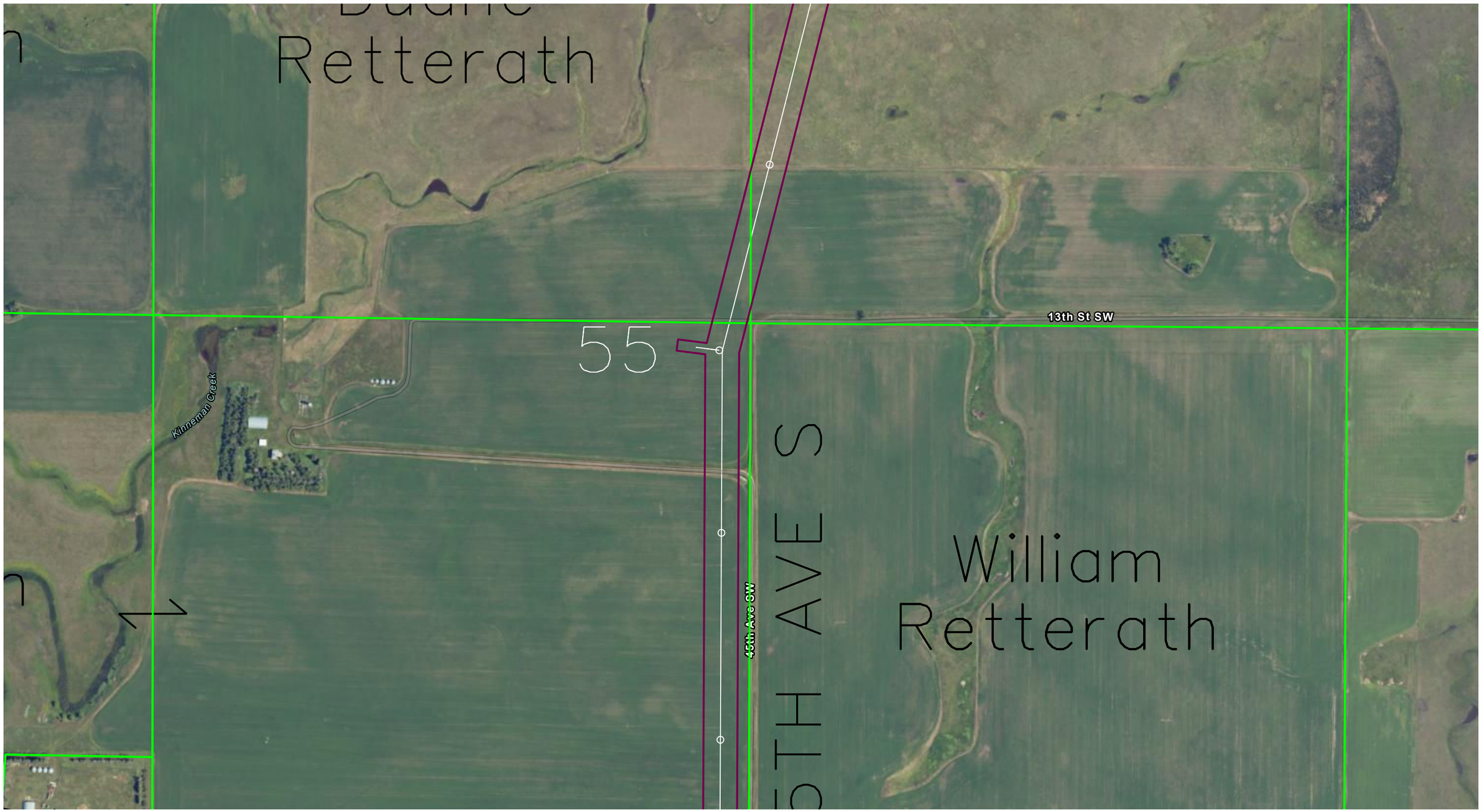
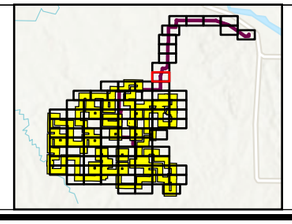
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 11 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Transmission Easement



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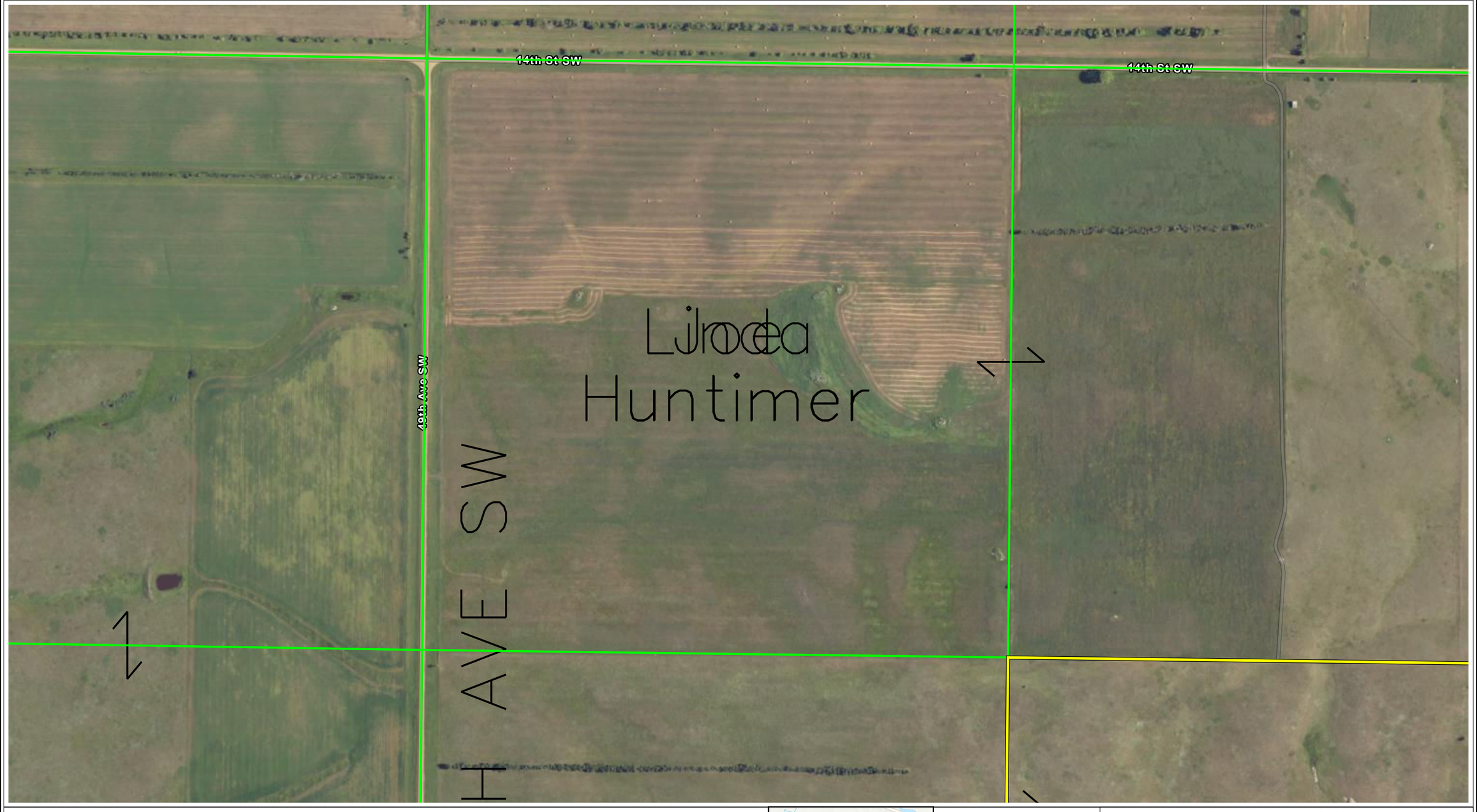
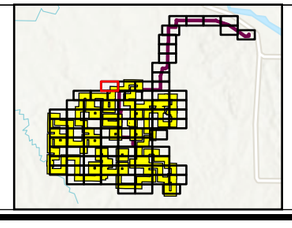
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 12 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)



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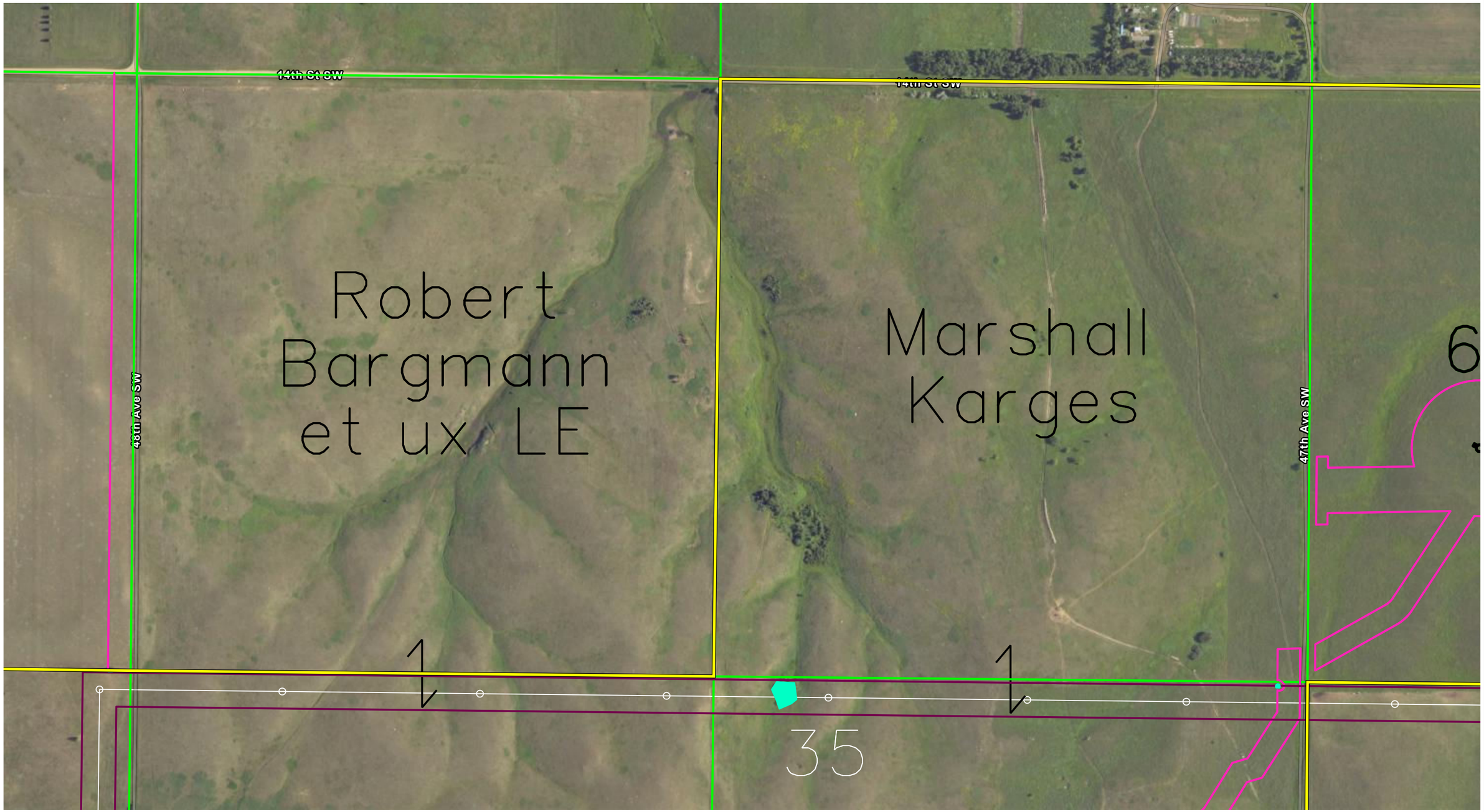
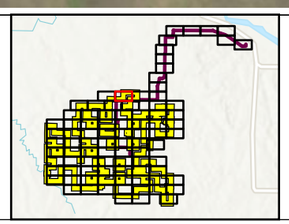
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 13 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Transmission Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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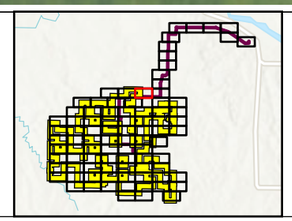
Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Transmission Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 15 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

14TH ST SW

14th St SW

14th St SW

William Retterath

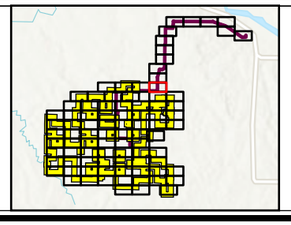
50

Steven Price

Cole Price

Project Area (± 24,677.20 Ac.)

Transmission Easement



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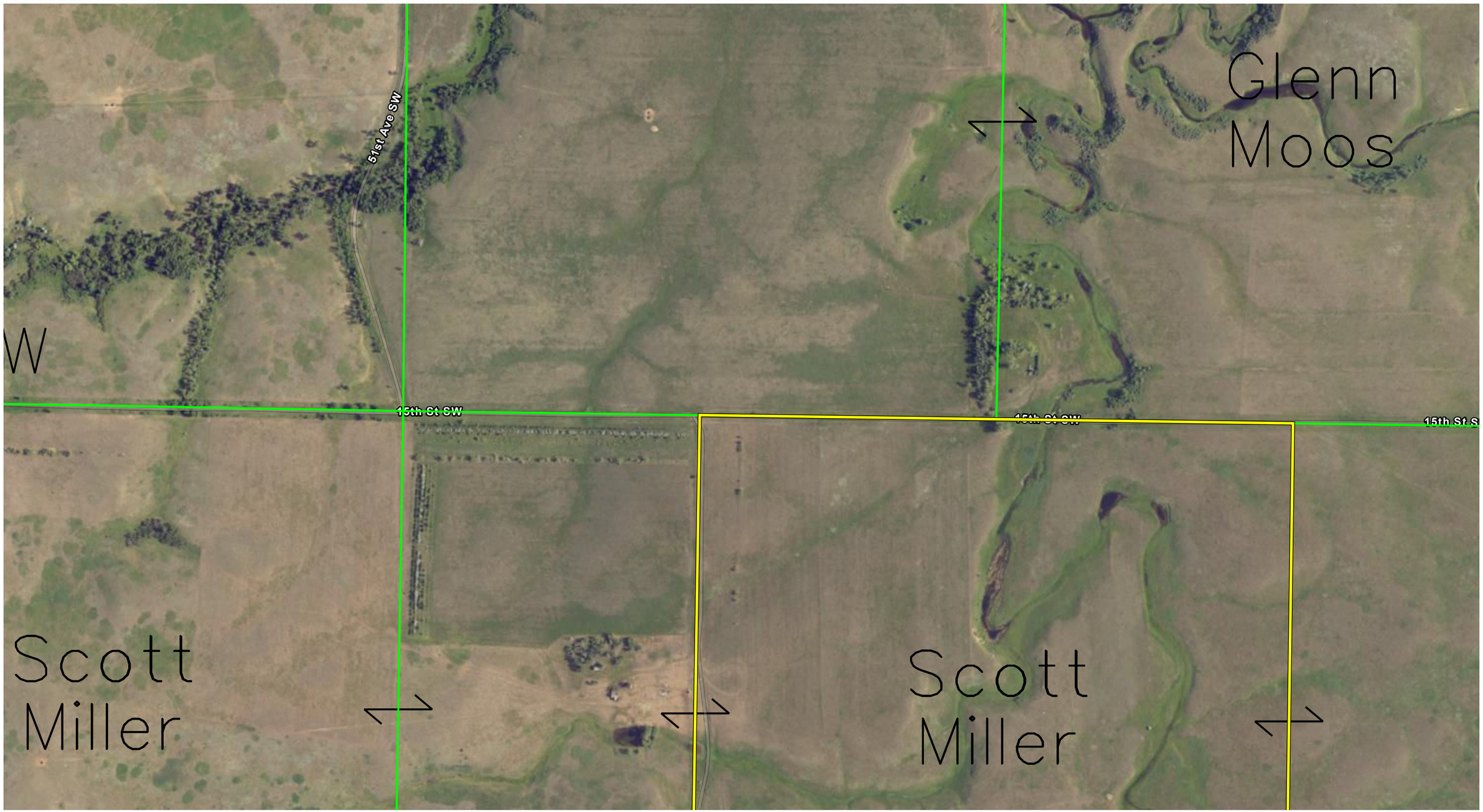
Feet

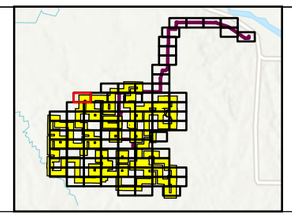
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 16 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)



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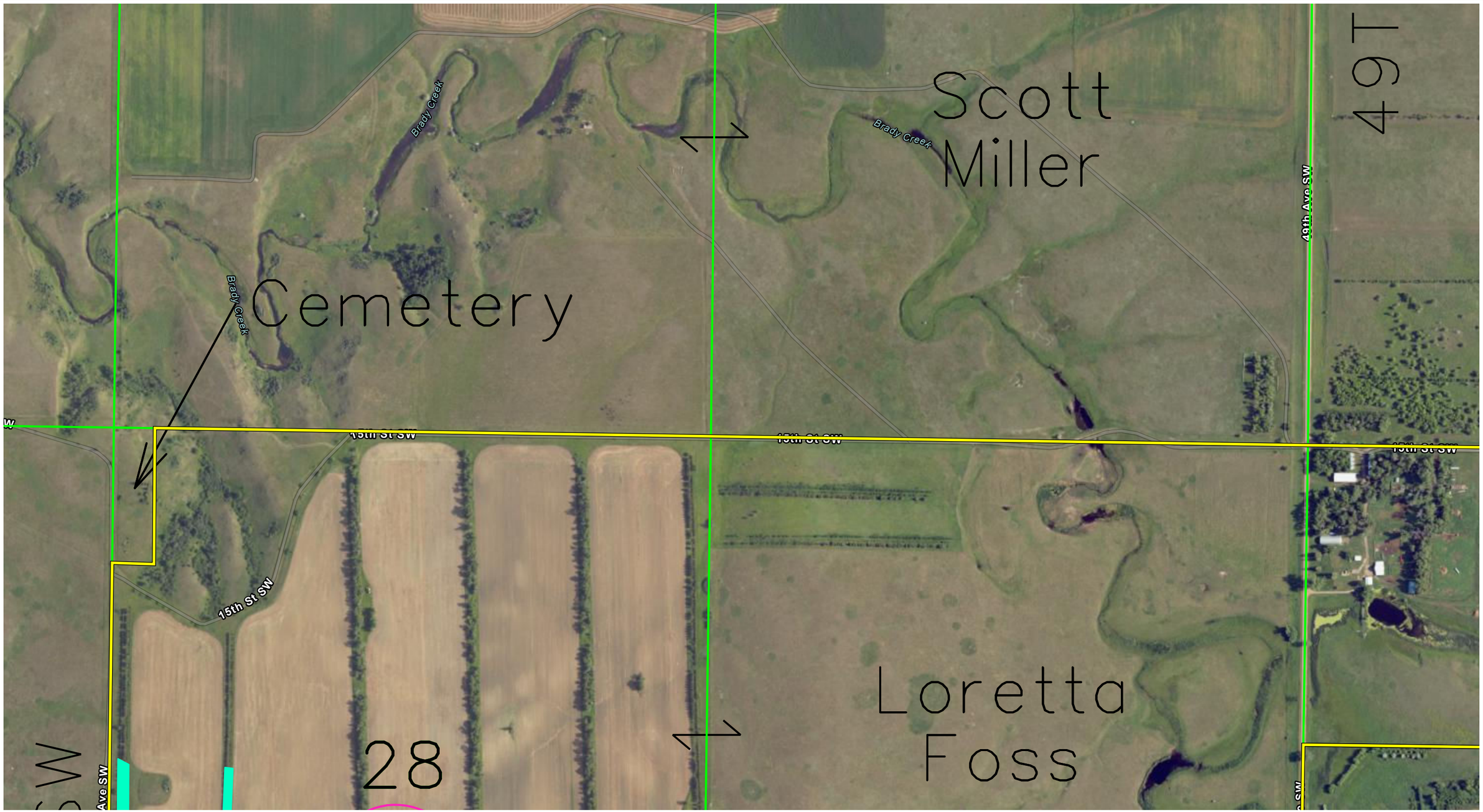
Feet

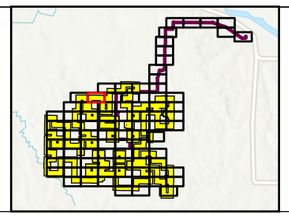
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 17 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



- Project Area (± 24,677.20 Ac.)
- Turbine
- Construction Easement
- Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 18 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Kelly
Maas

30

Marvin
&
Royann
Beckman

40

48th Ave SW

15th St SW

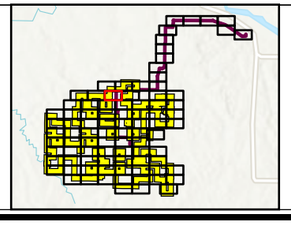
15th St SW

Kelly
Maas

AVE SW

Marvin
&
Royann

- Project Area (± 24,677.20 Ac.)
- Turbine
- Construction Easement
- Transmission Easement
- Tree or Shrub Removed



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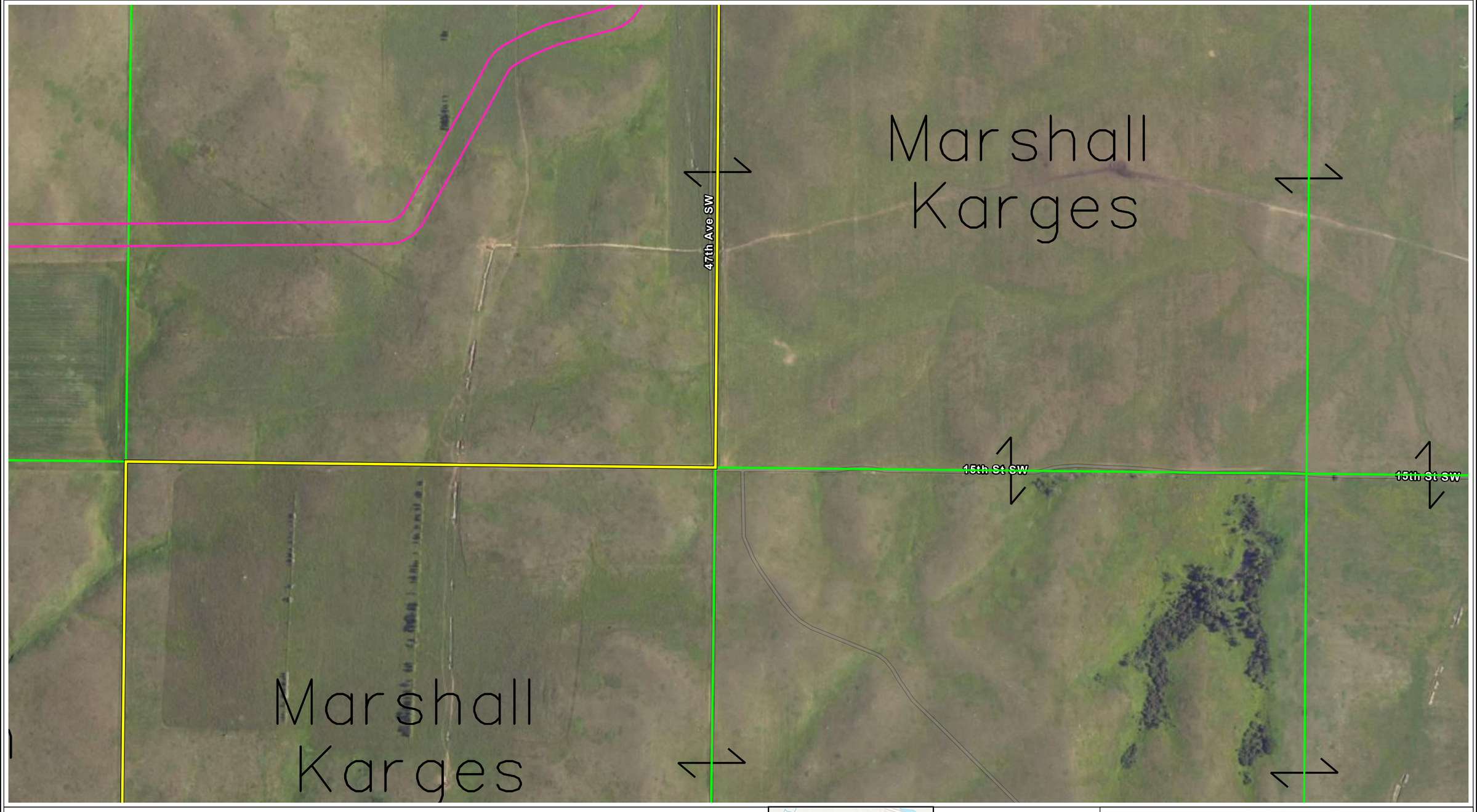
Feet

Base Layer: NAIP Aerial Imagery 2023

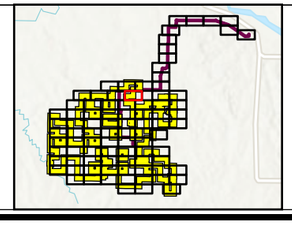
Appendix C - Page 19 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)

Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 20 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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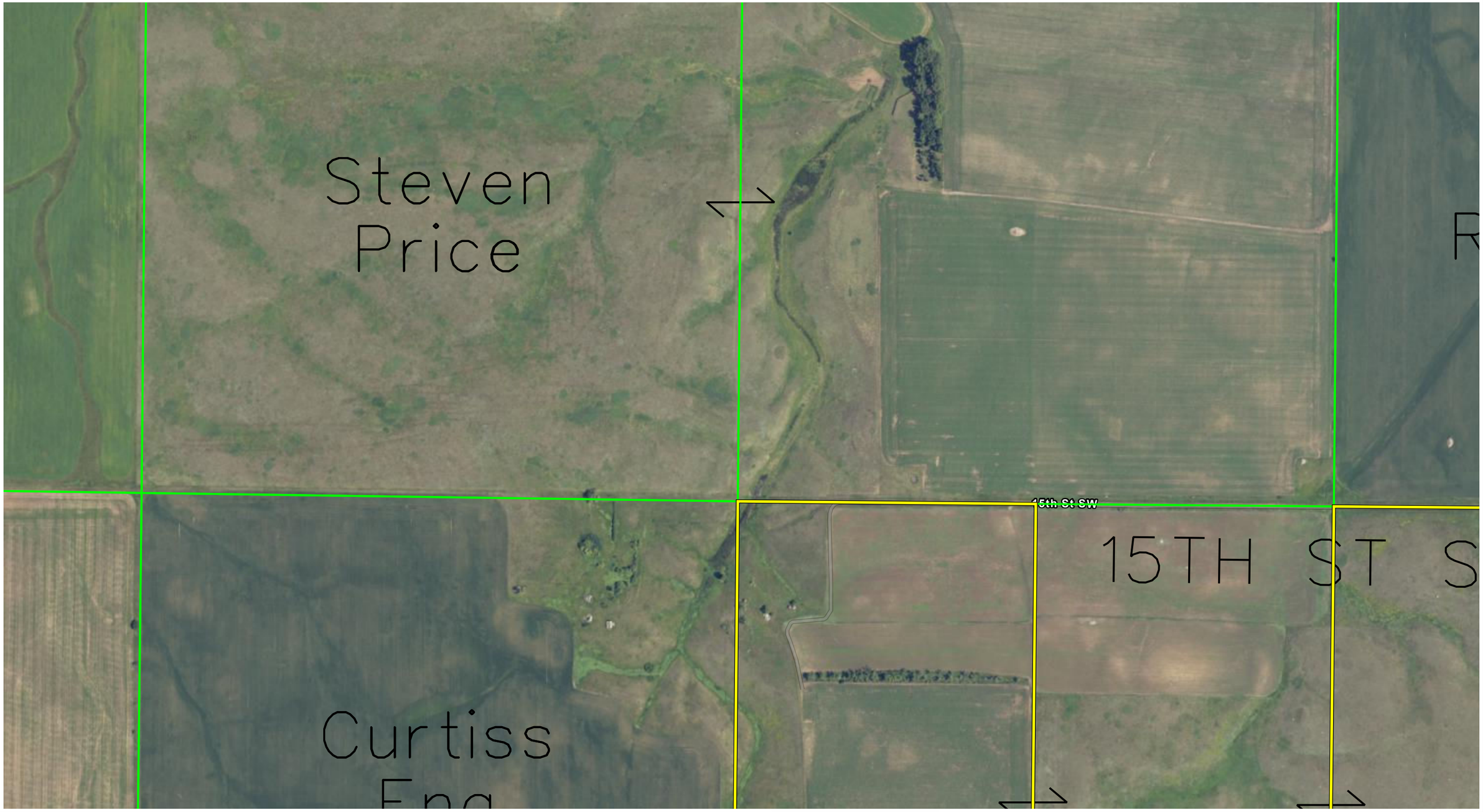
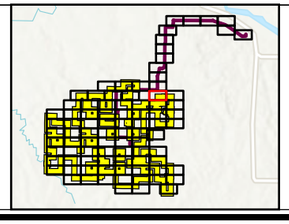


Project Area (± 24,677.20 Ac.)



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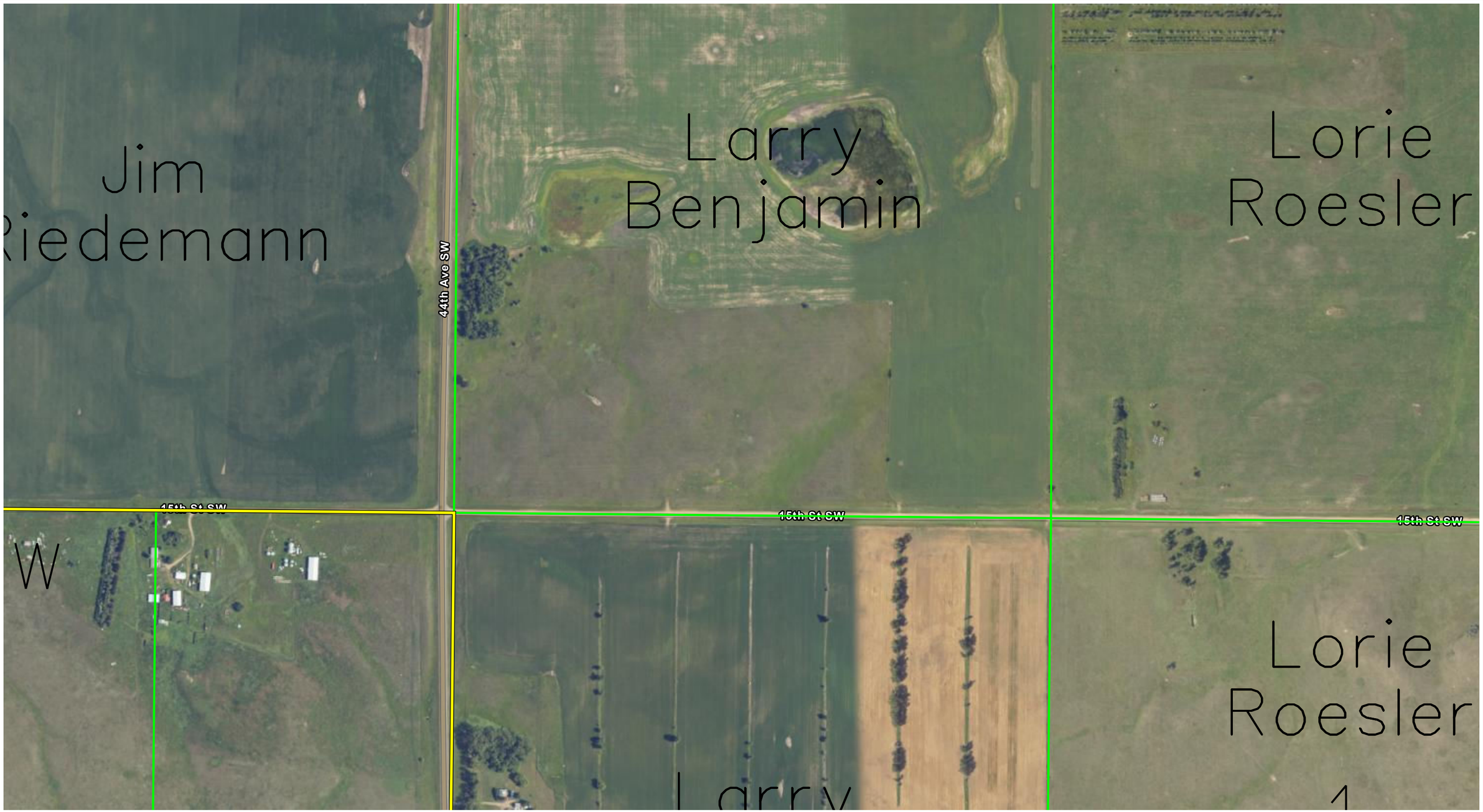
Feet

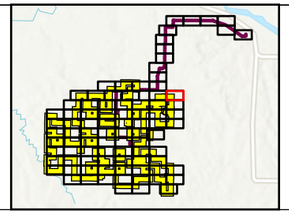
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 21 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)



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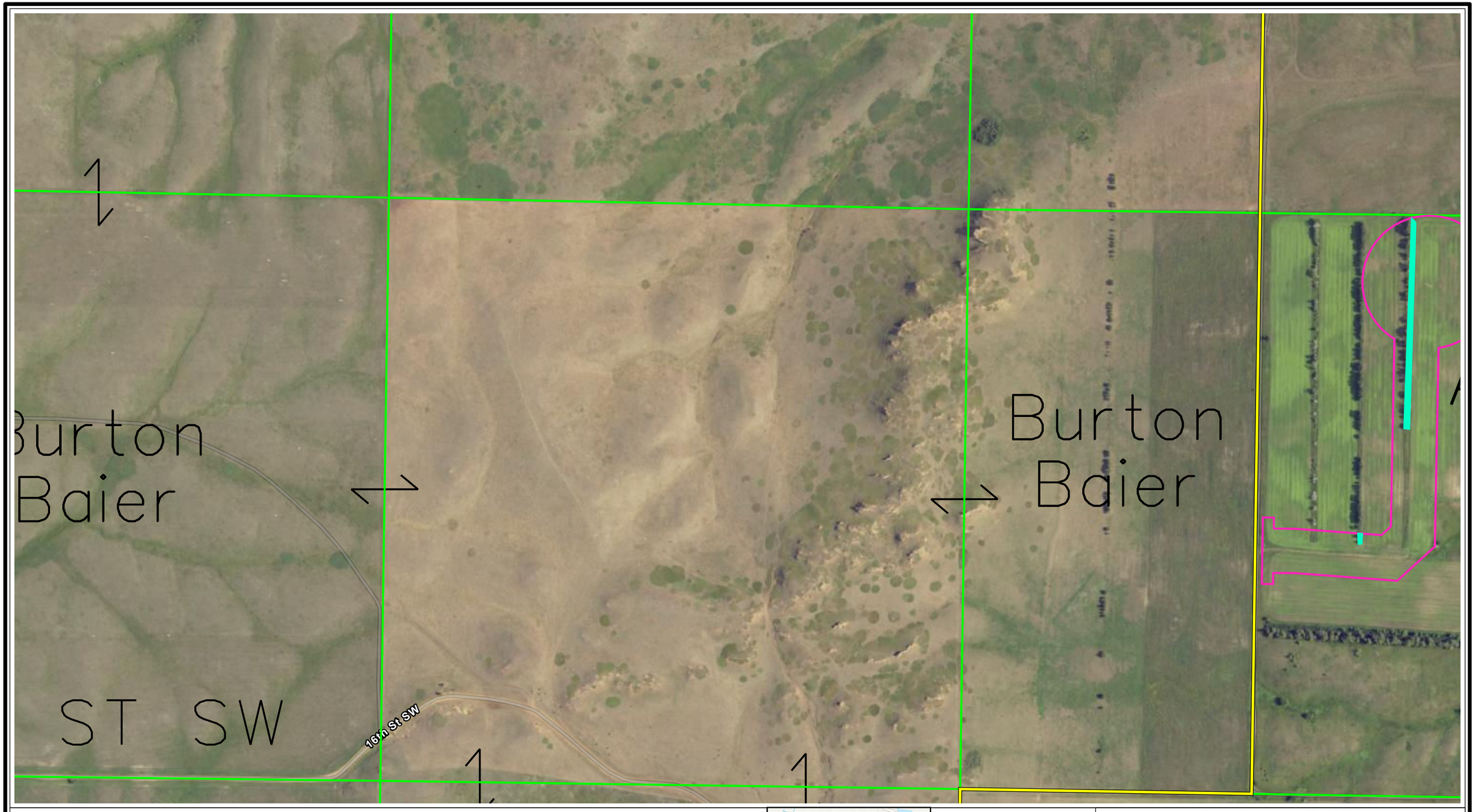
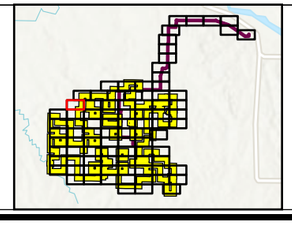
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 22 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 23 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
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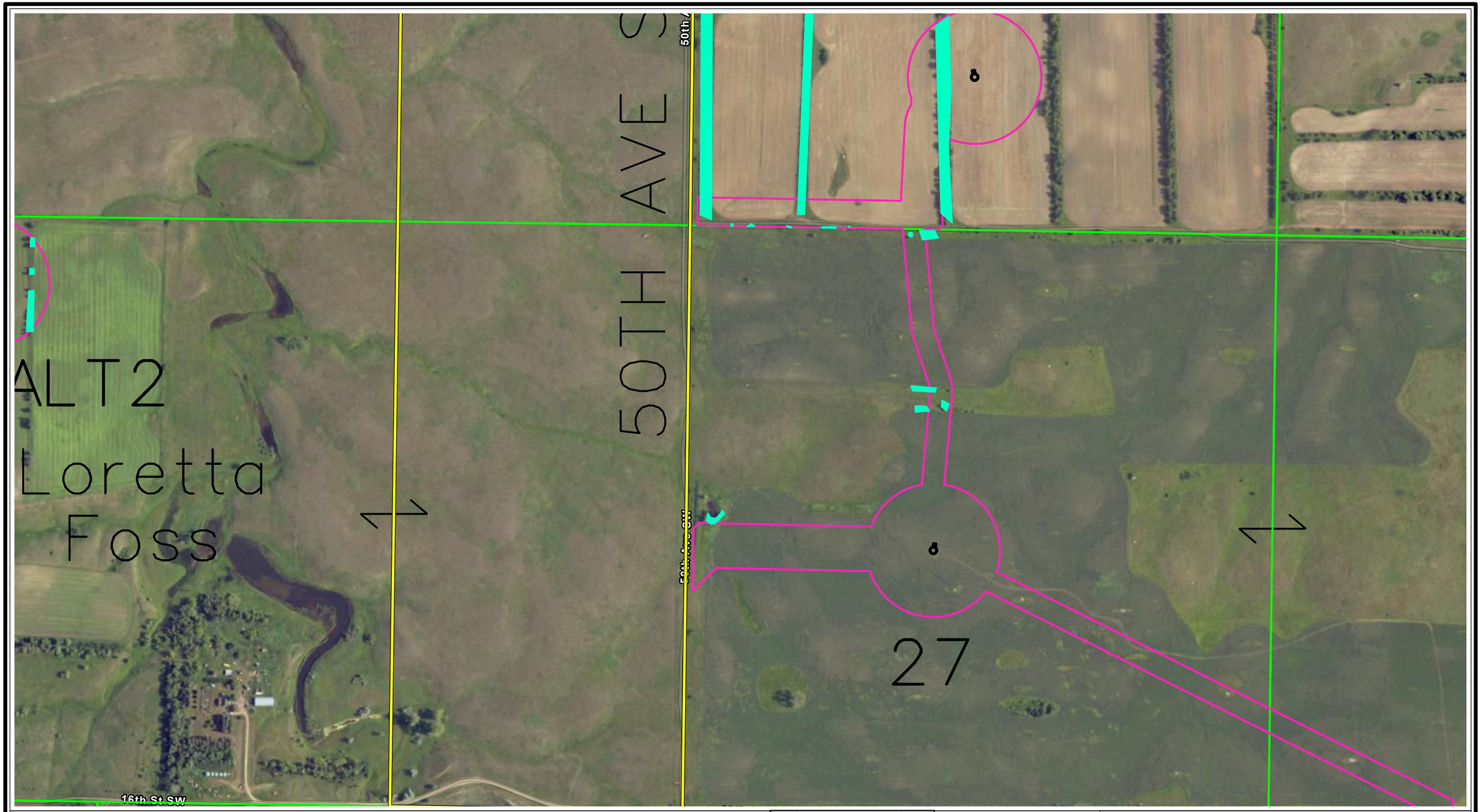
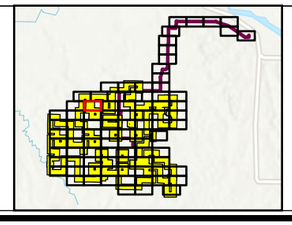
ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 24 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Daryn Karges

Brady Creek

39

2

38

Wayne Rahn

49th Ave SW

Wayne Rahn

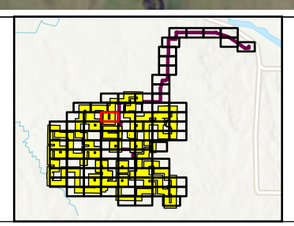
Brady Creek

Brady Creek

Gary Beckman

Loretta Beckman et a

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

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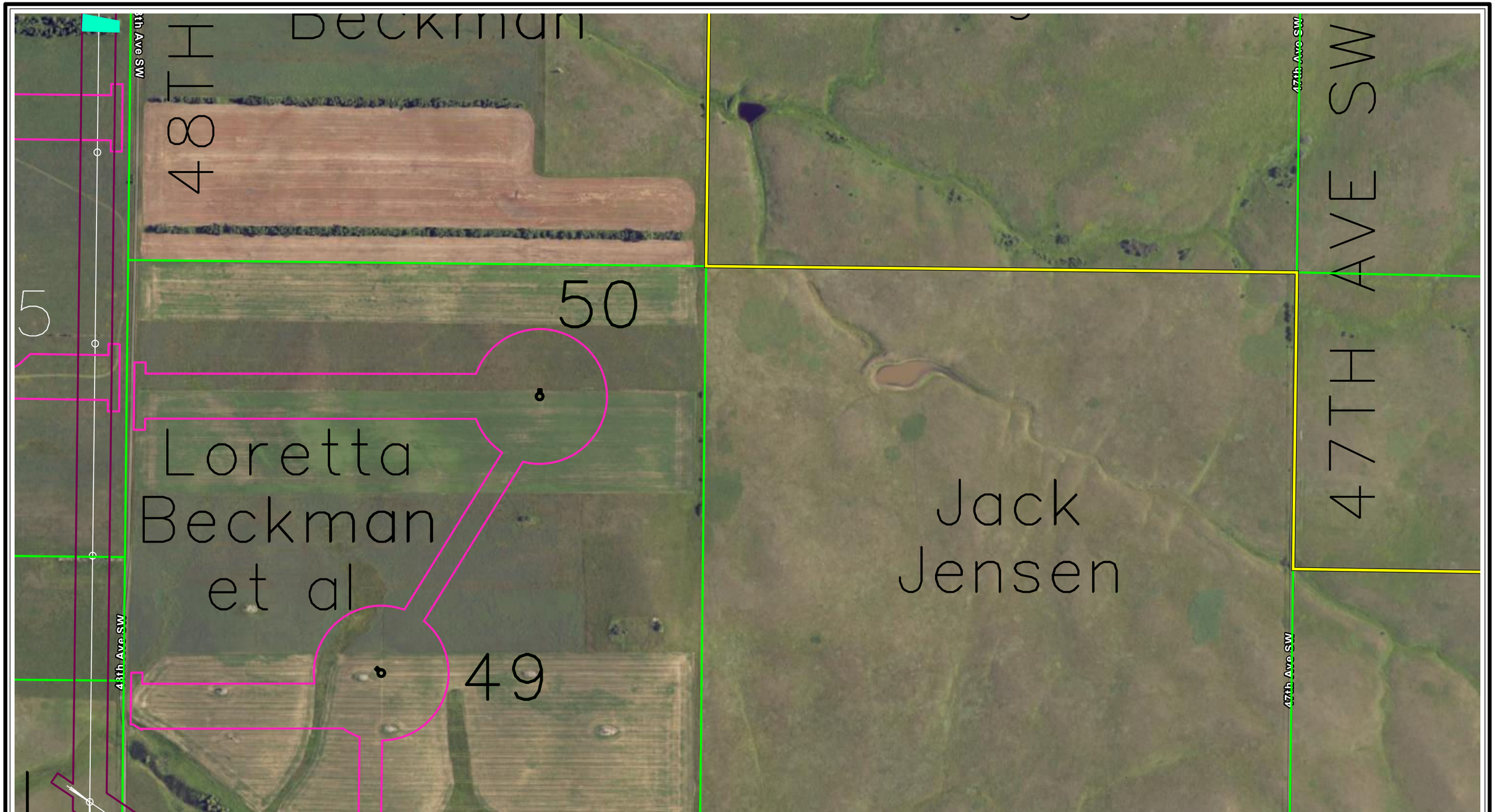
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Transmission Easement
Tree or Shrub Removed

N

0 250 500
Feet

Base Layer: NAIP Aerial Imagery 2023

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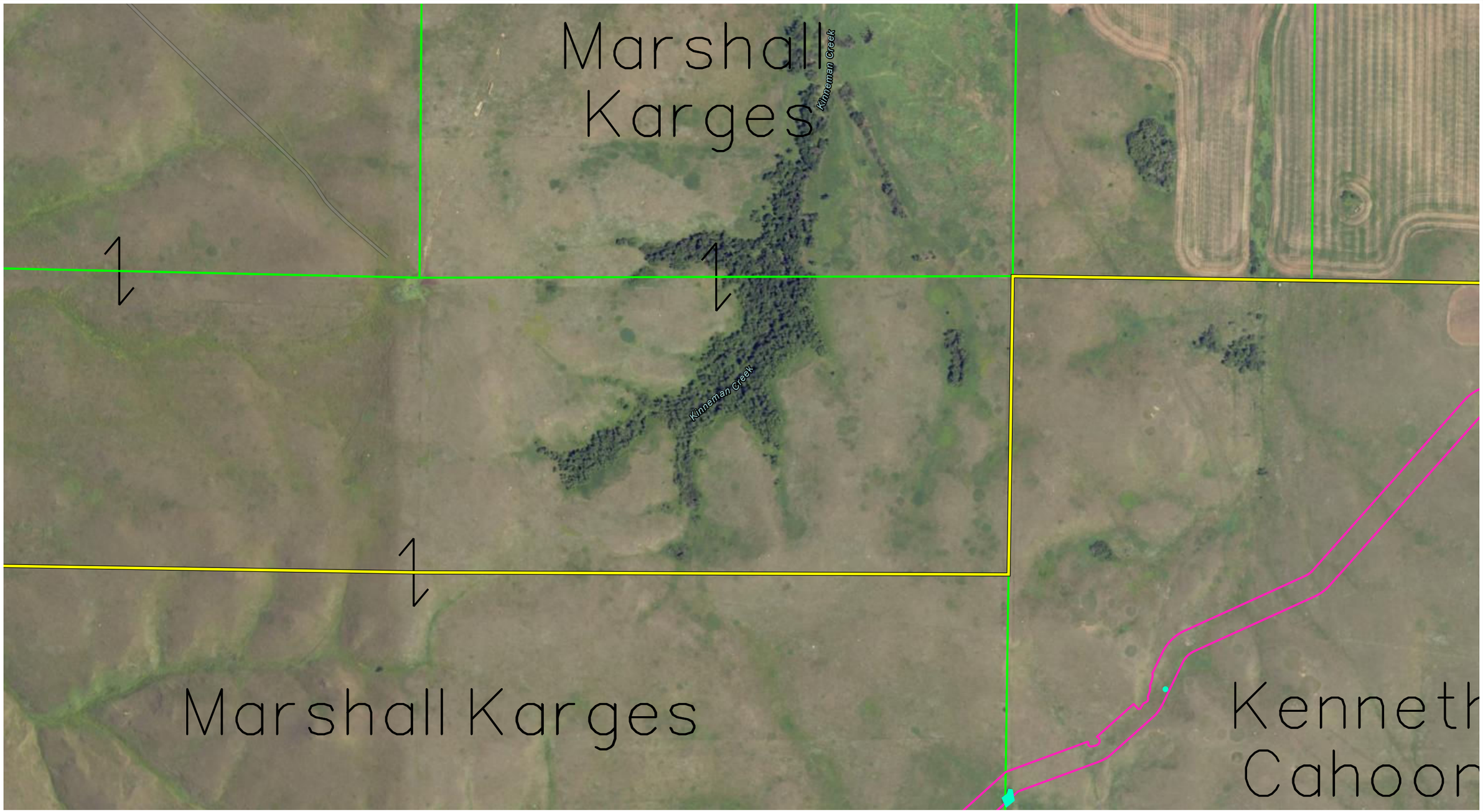
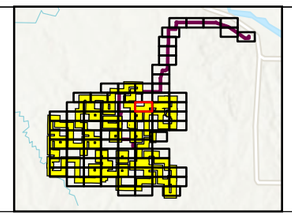
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 27 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Eng

Harold
Vavra

68

7

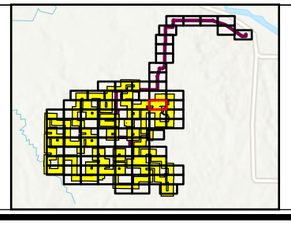
Great Plains
Tower
Prop LLP

45th Ave SW

Kenneth Cahoon

45th Ave SW

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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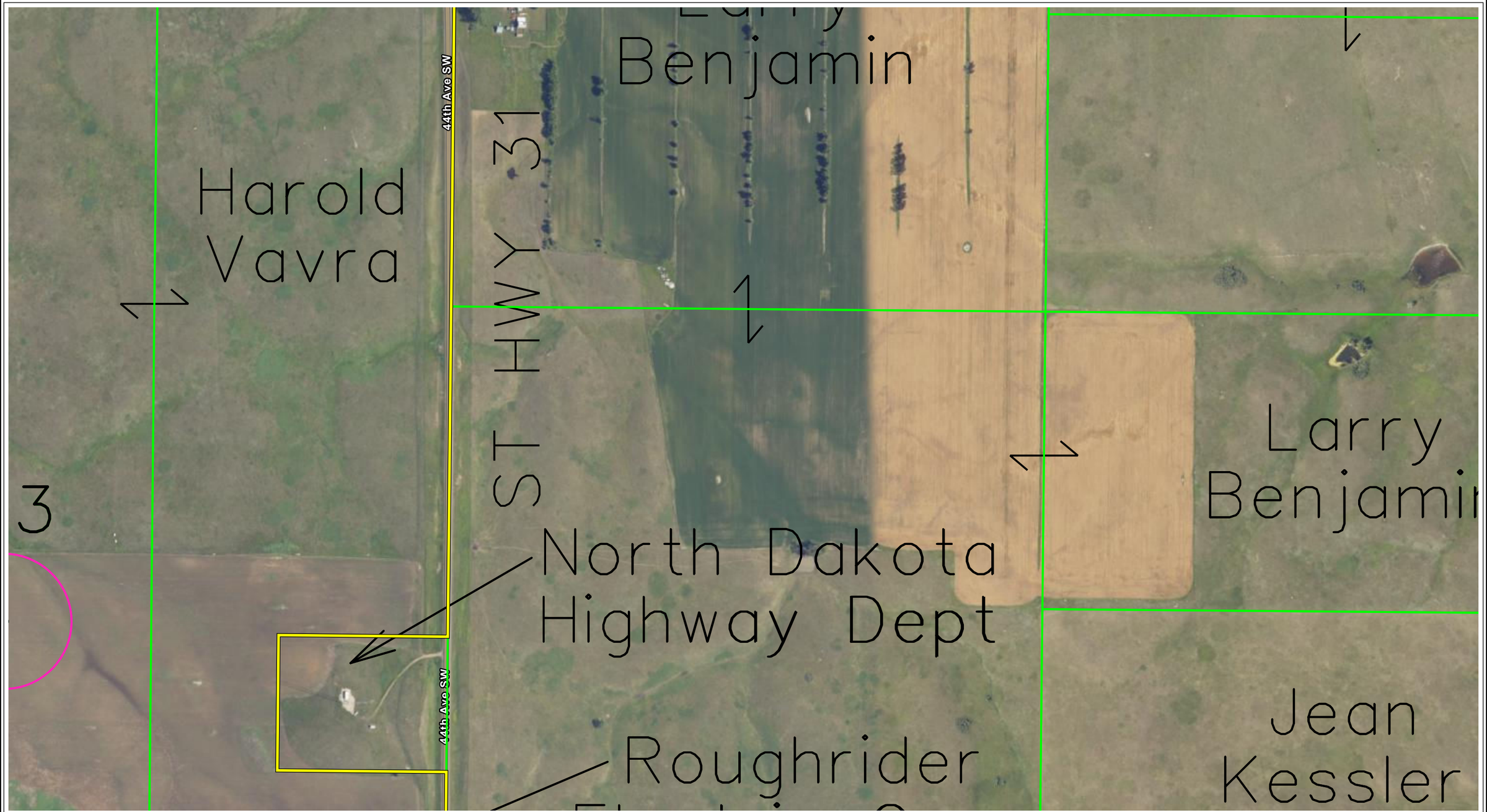
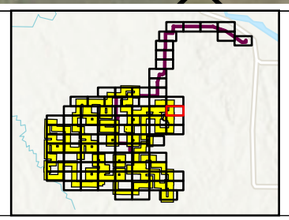
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 28 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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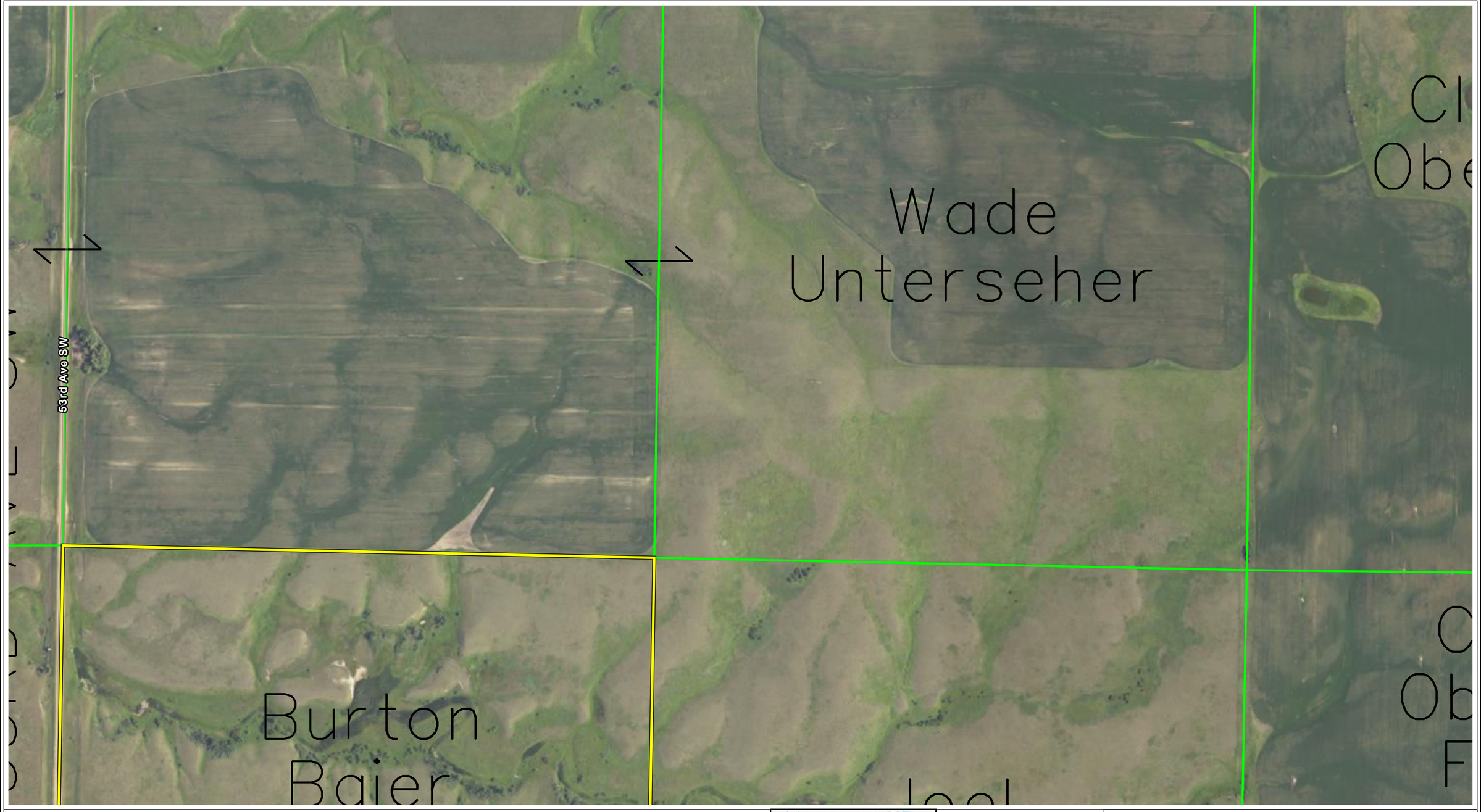
Feet

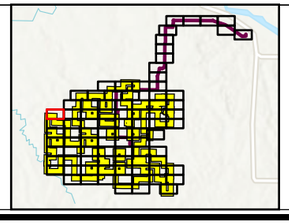
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 29 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)



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Feet

Base Layer: NAIP Aerial Imagery 2023

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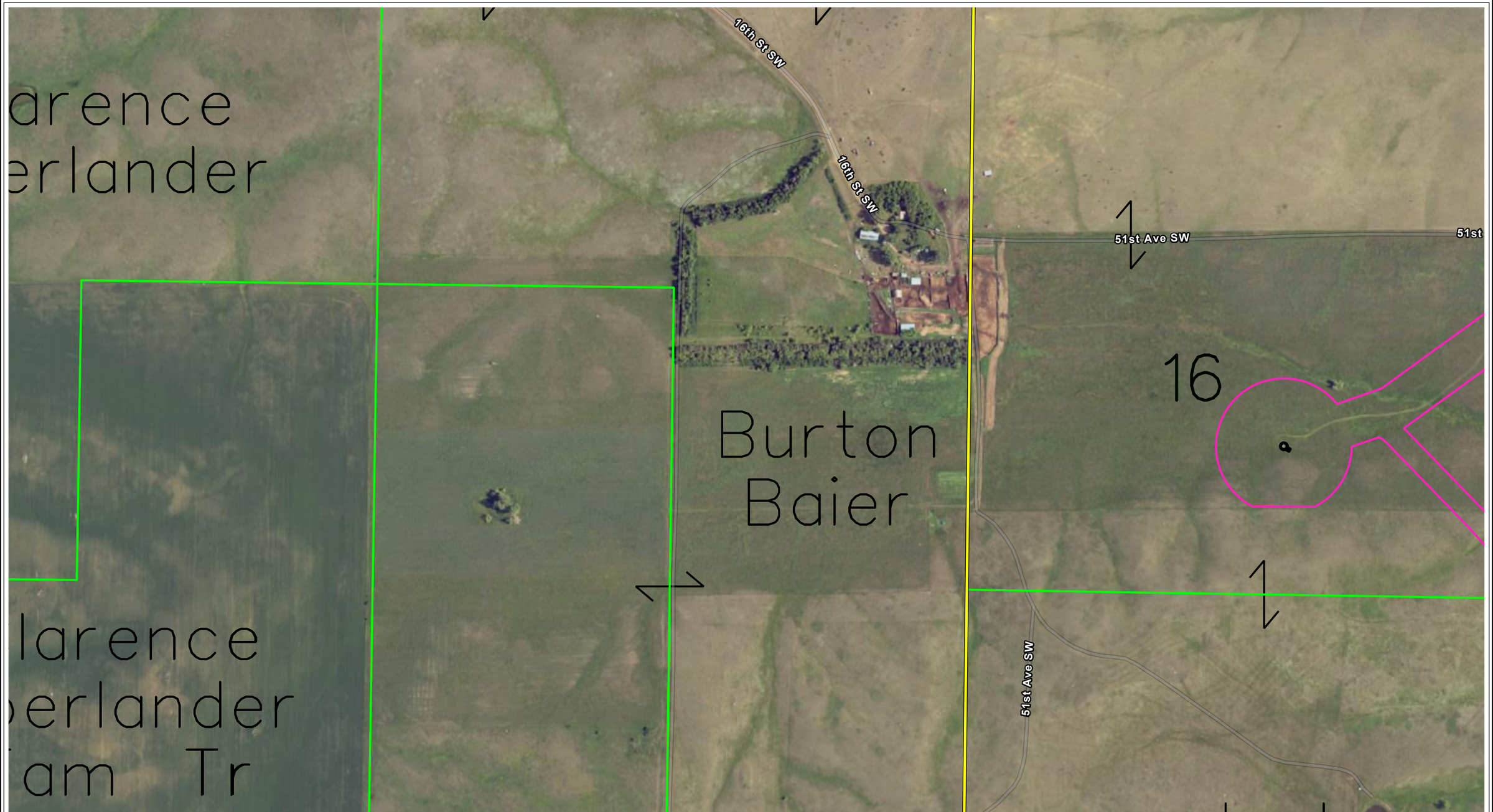
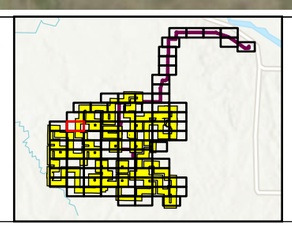
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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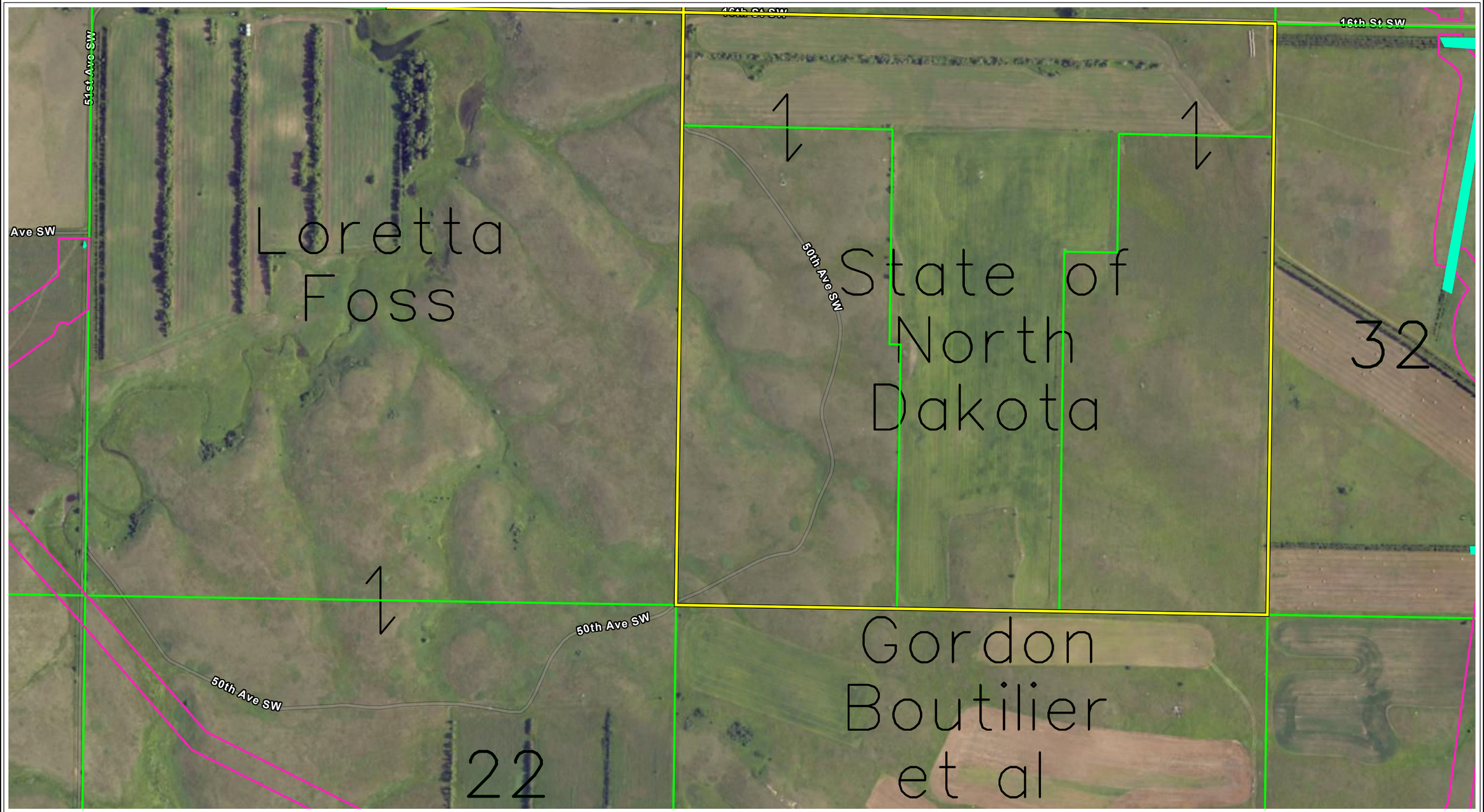
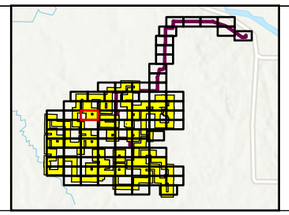
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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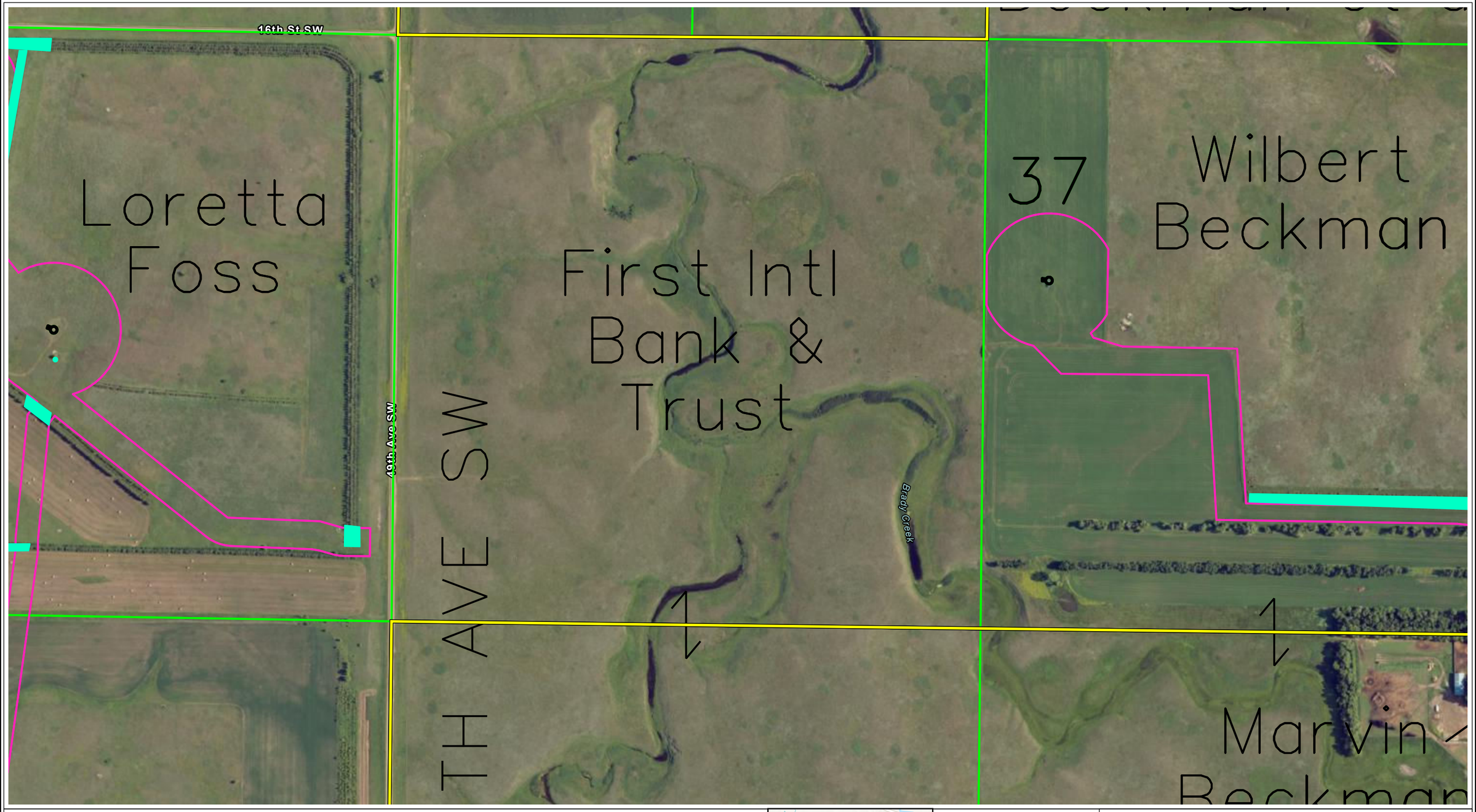
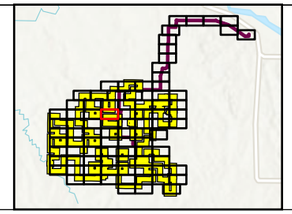
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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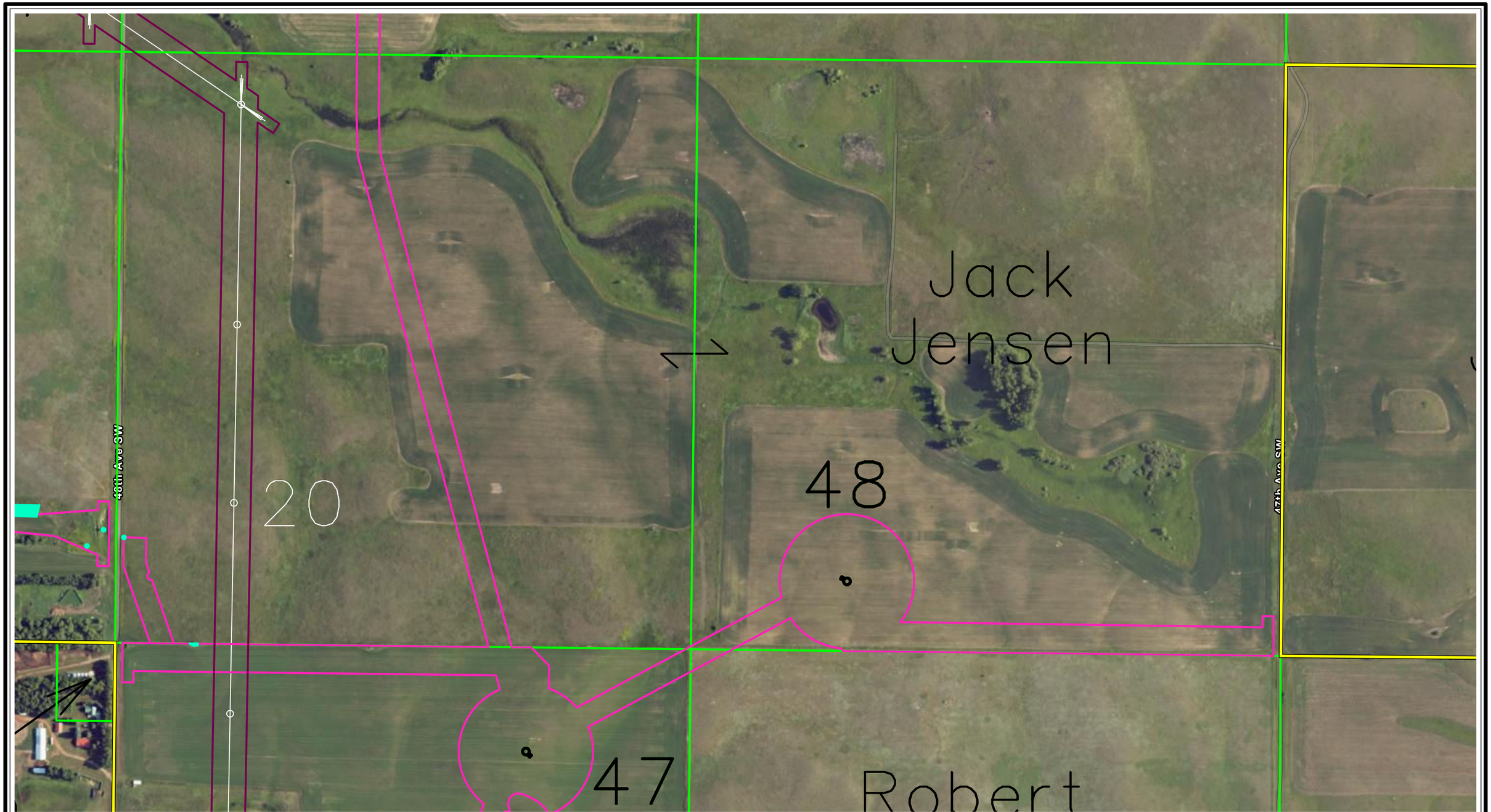
Feet

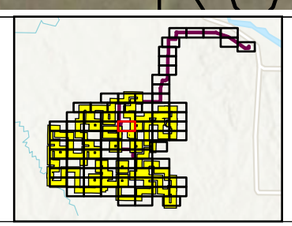
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 33 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Transmission Easement
Tree or Shrub Removed



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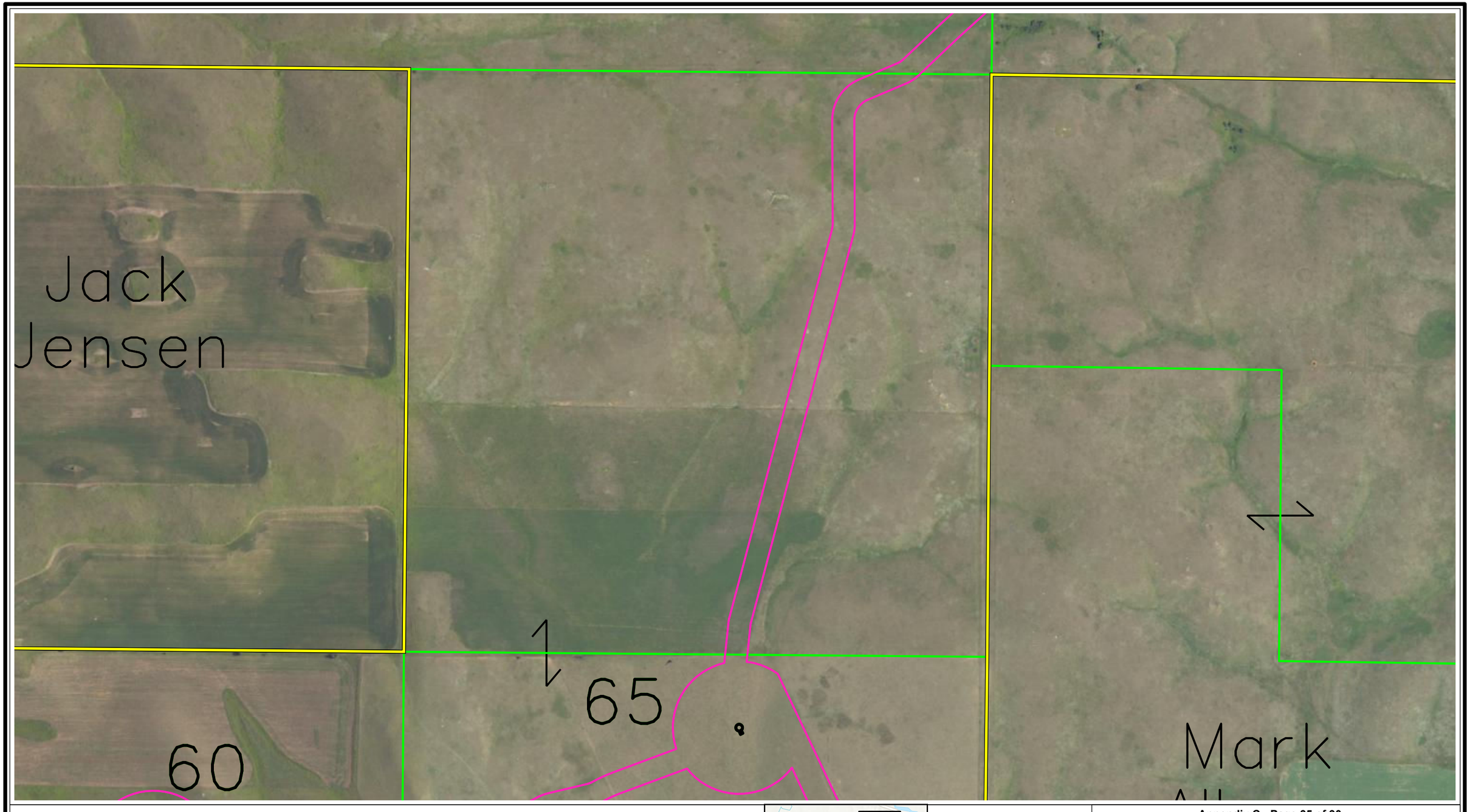
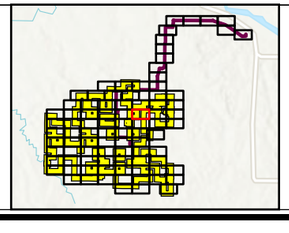
Base Layer: NAIP Aerial Imagery 2023

Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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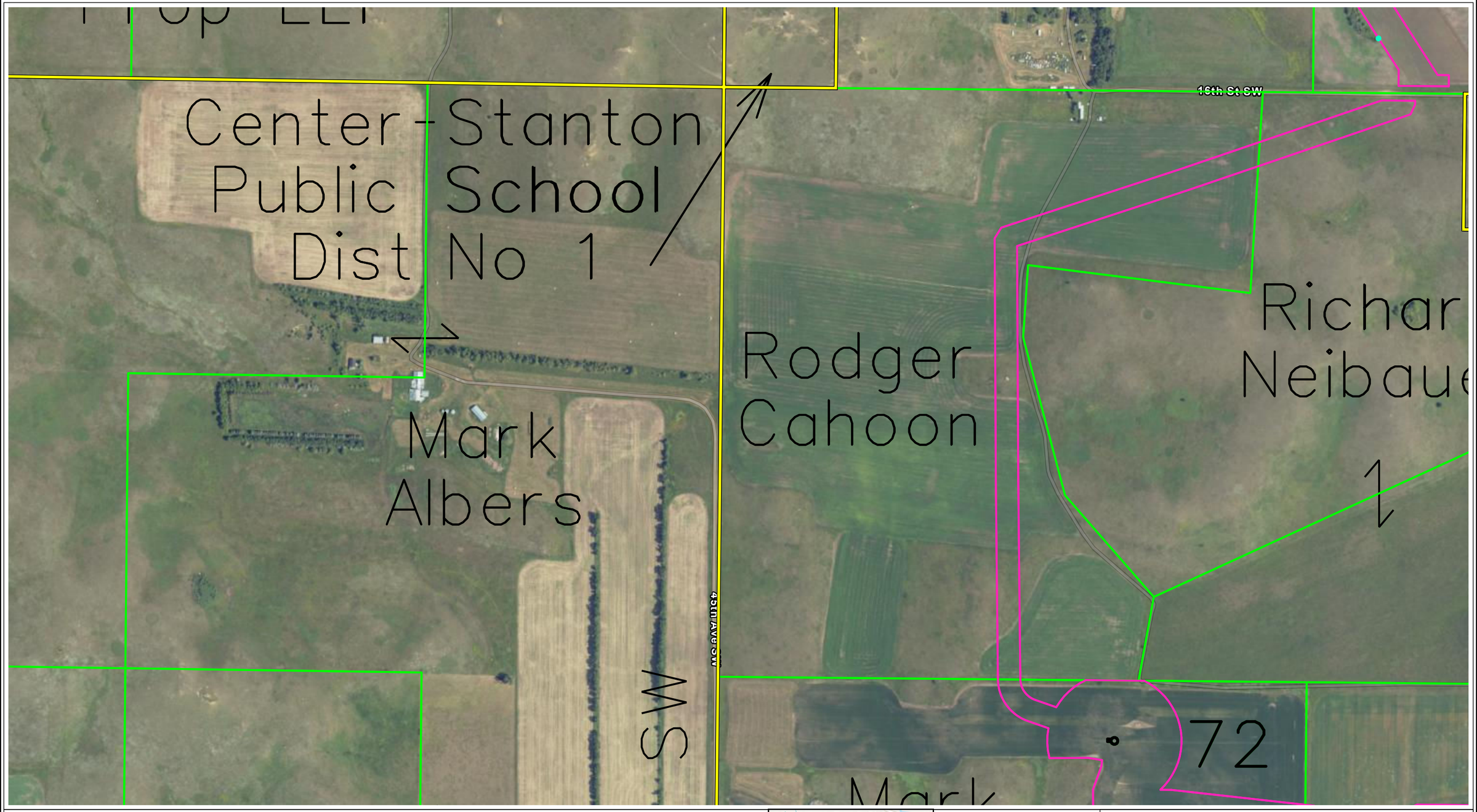
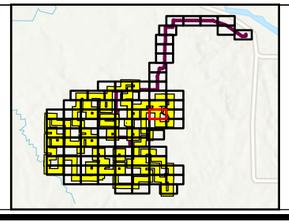
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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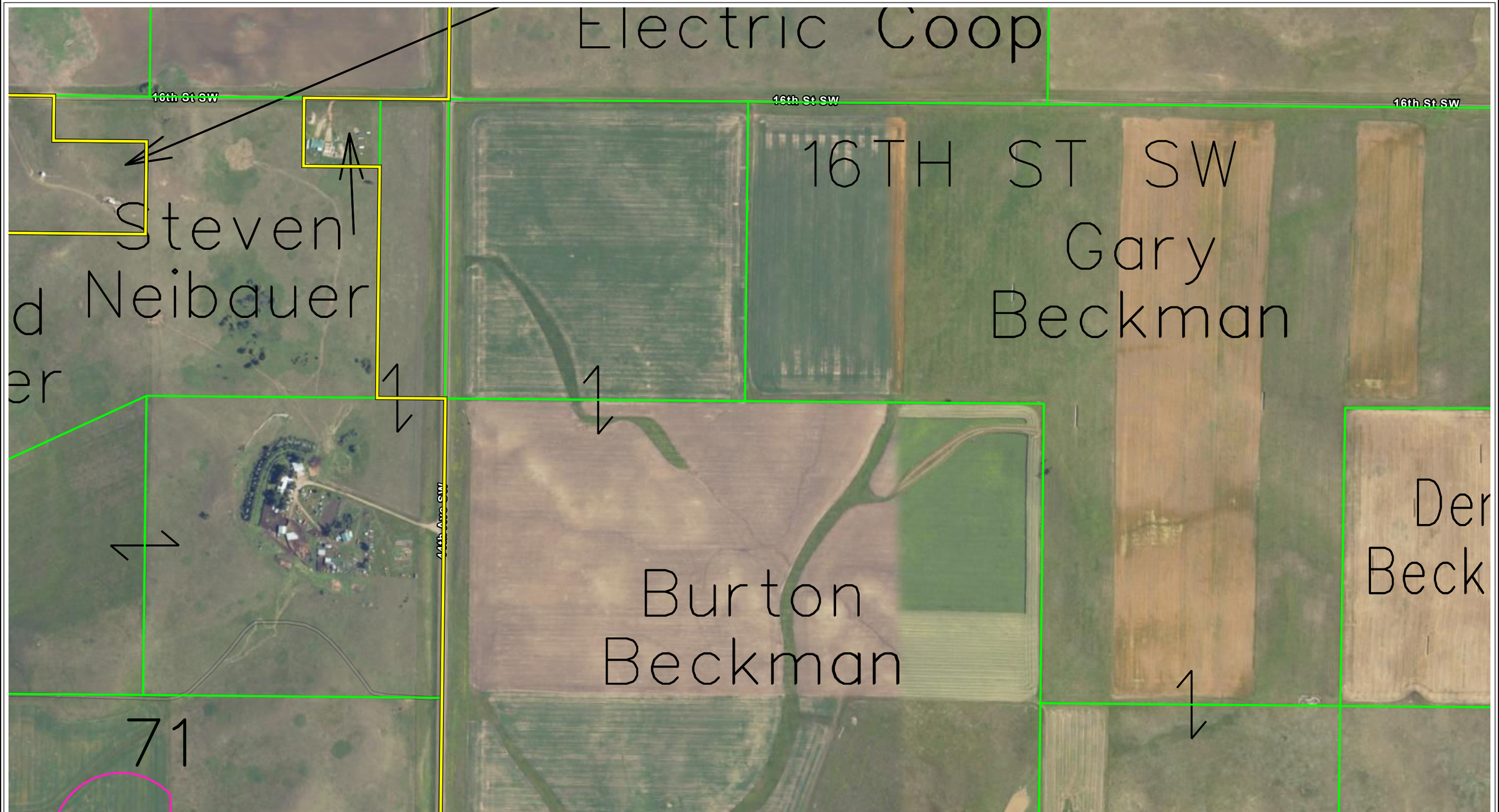
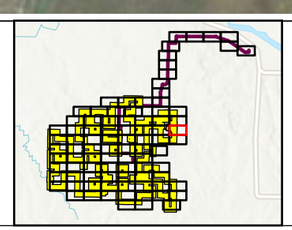
ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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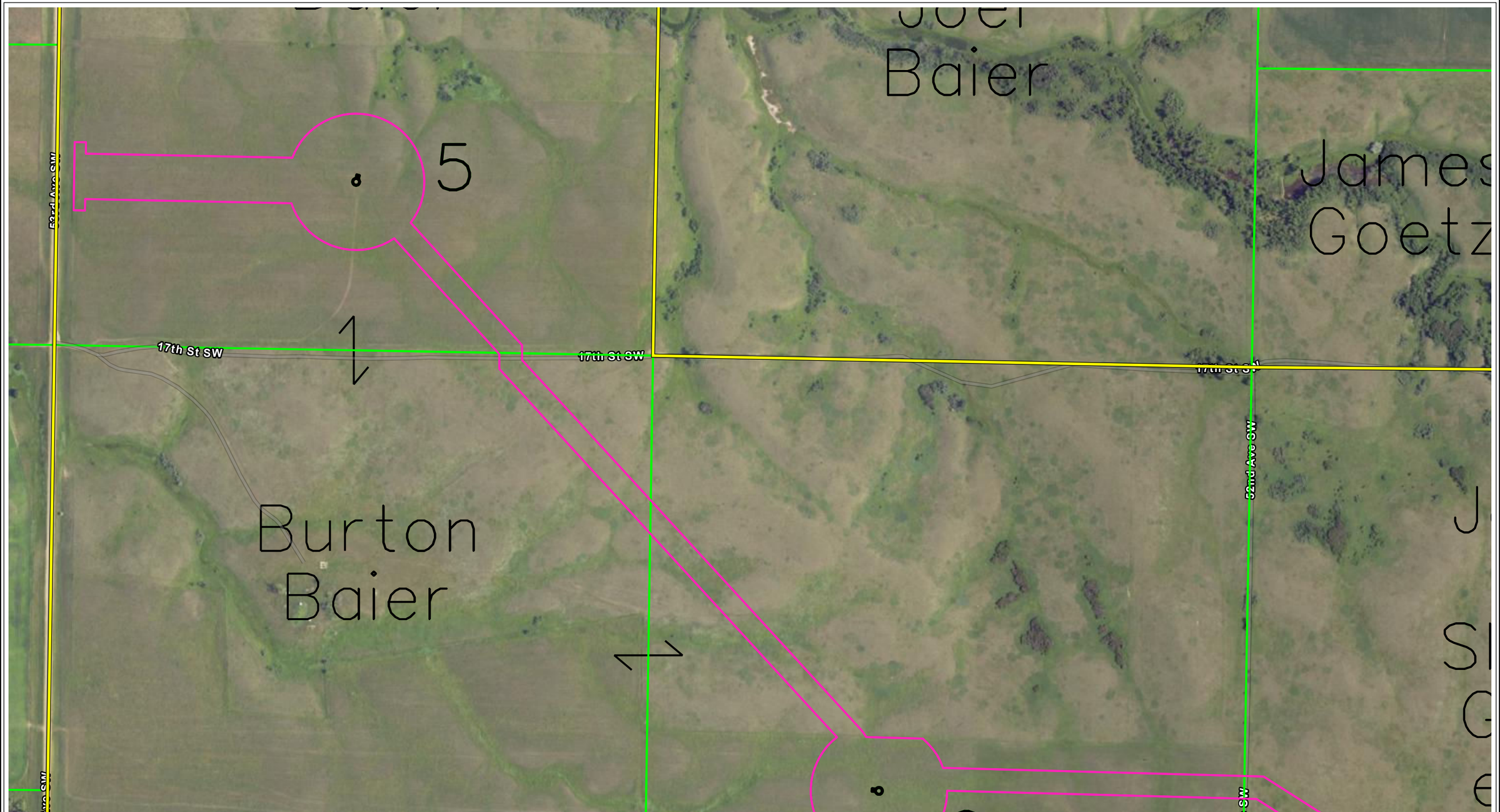
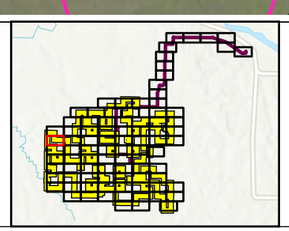


Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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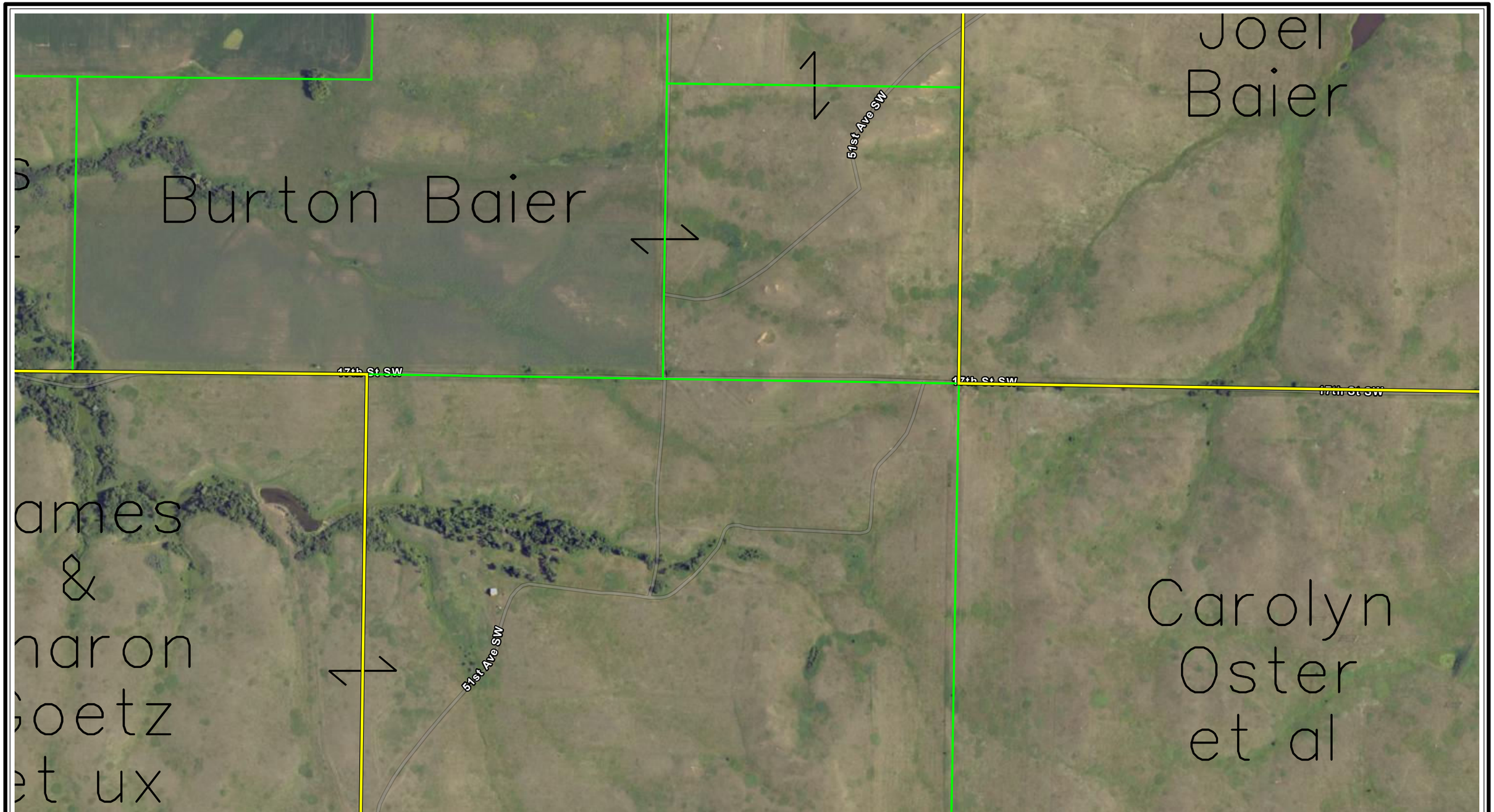
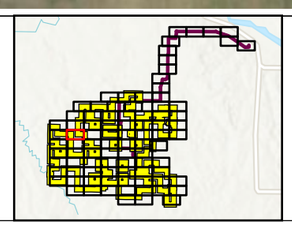


Project Area (± 24,677.20 Ac.)



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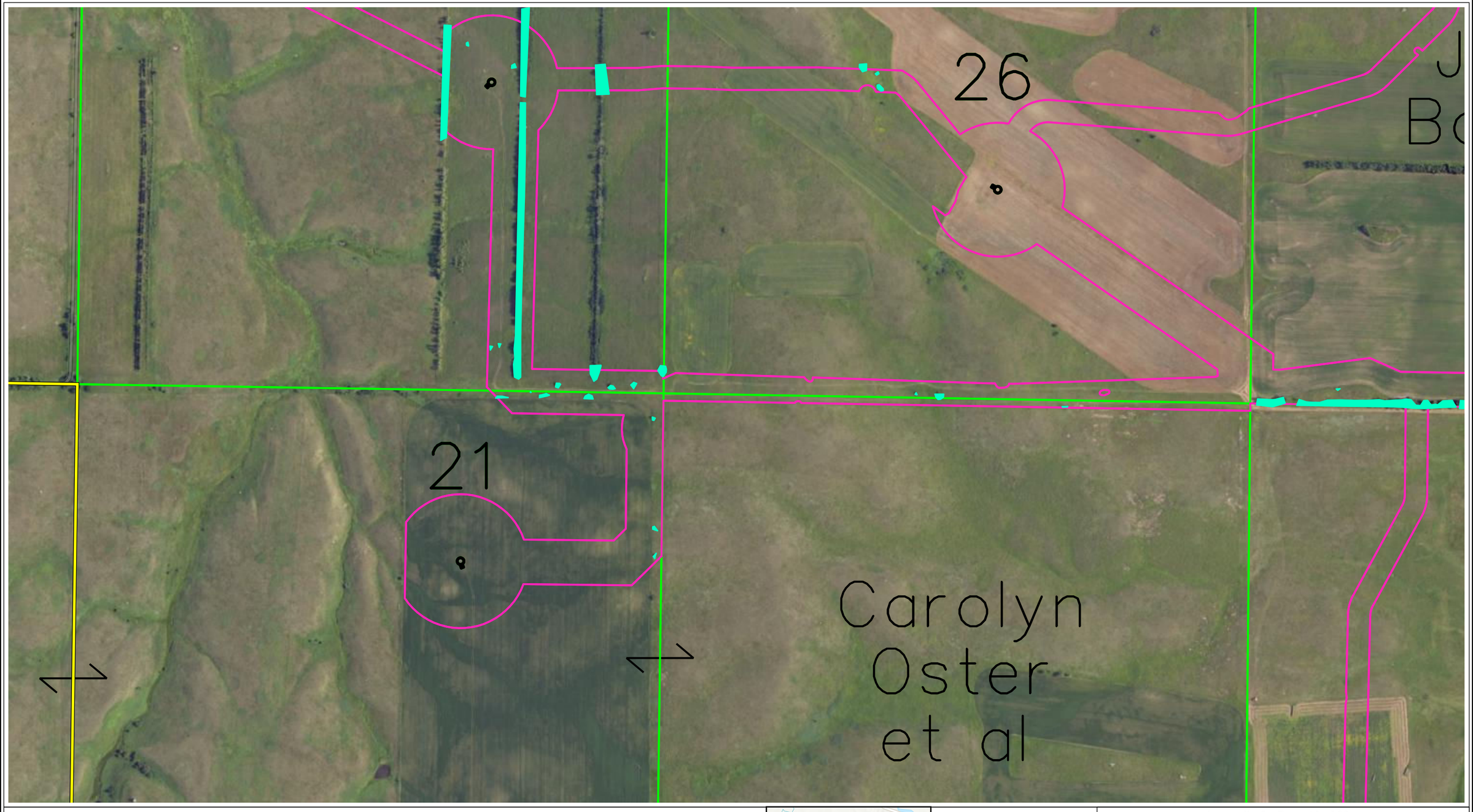
Feet

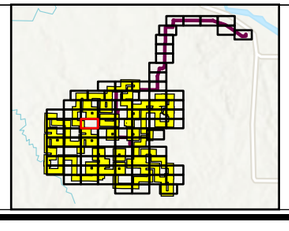
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 39 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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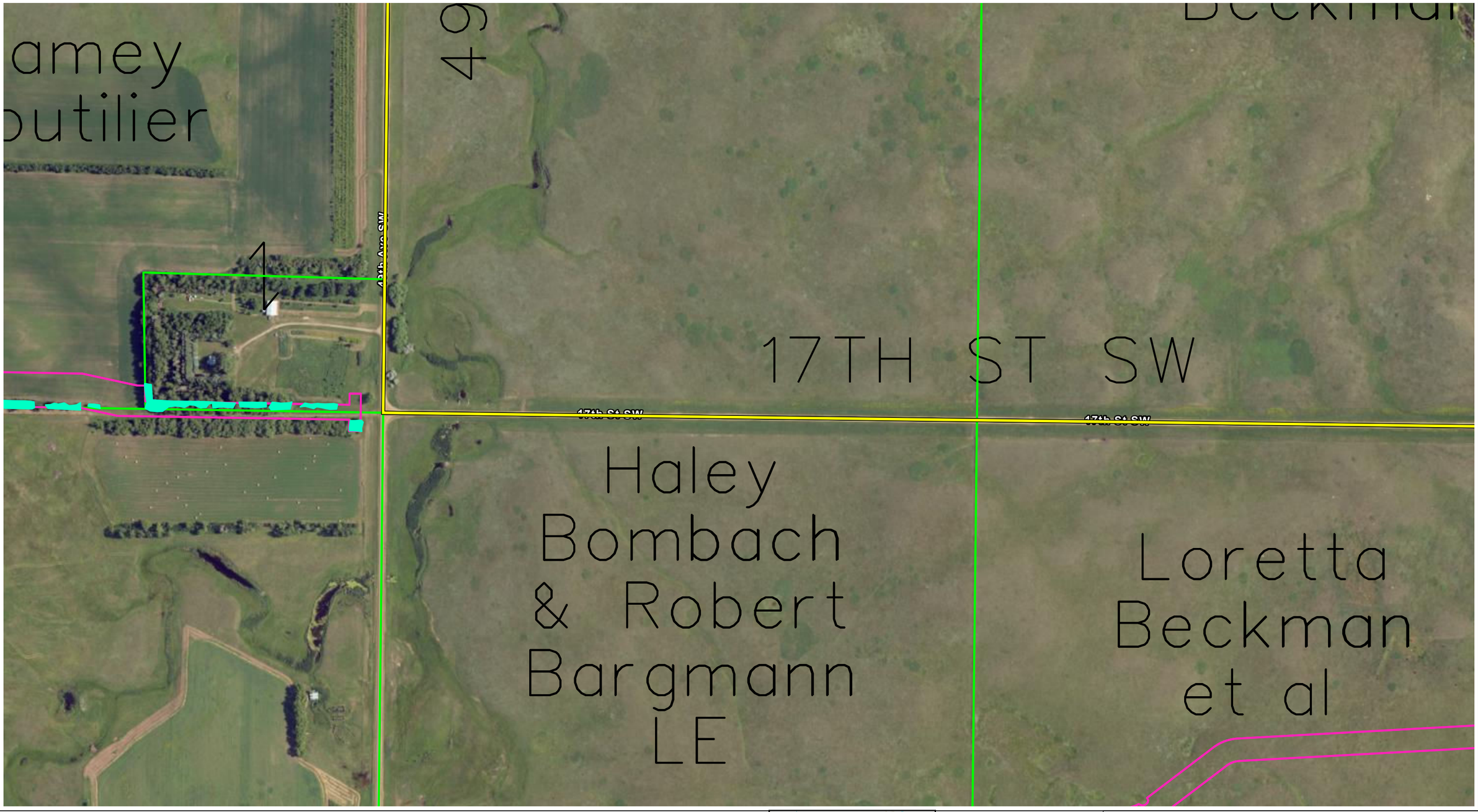
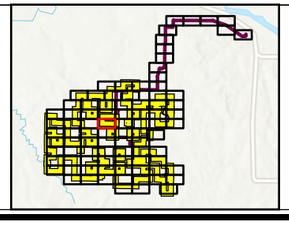


Project Area (± 24,677.20 Ac.)
Construction Easement
Tree or Shrub Removed



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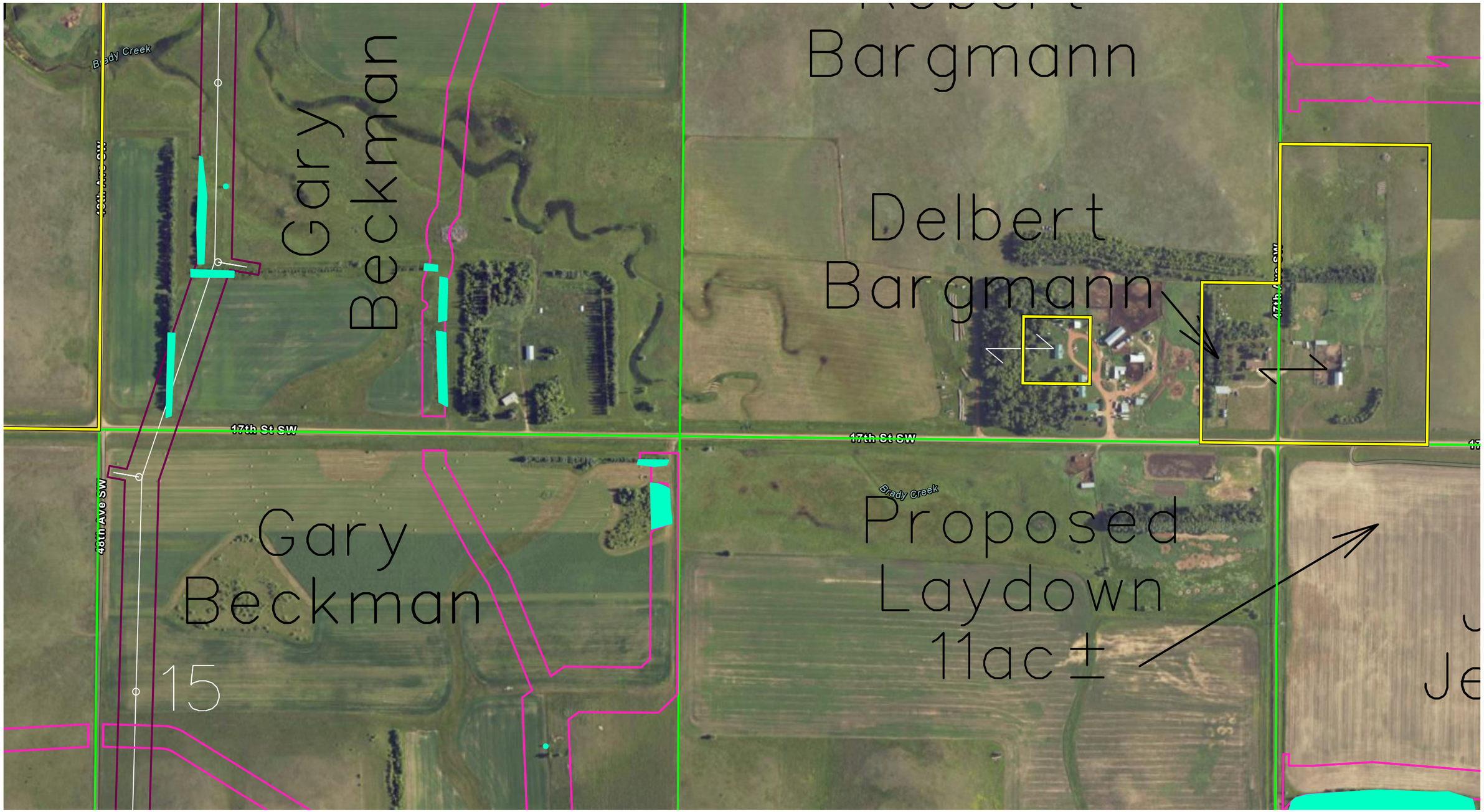
Feet

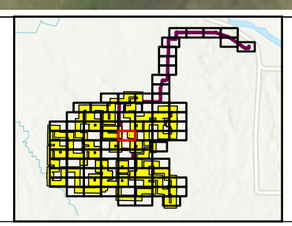
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 41 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



- Project Area (± 24,677.20 Ac.)
- Construction Easement
- Transmission Easement
- Tree or Shrub Removed



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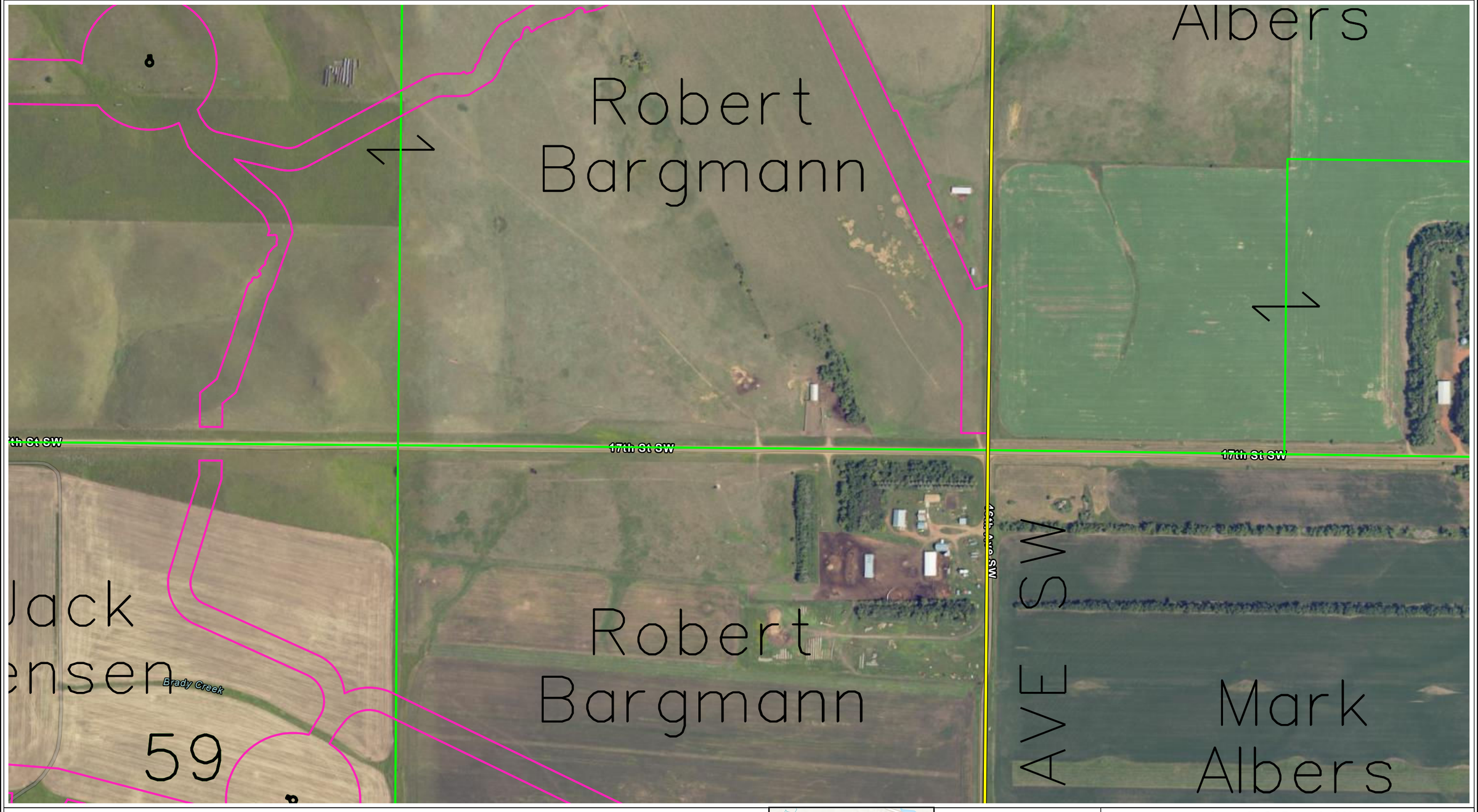
Feet

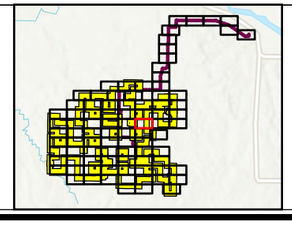
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 42 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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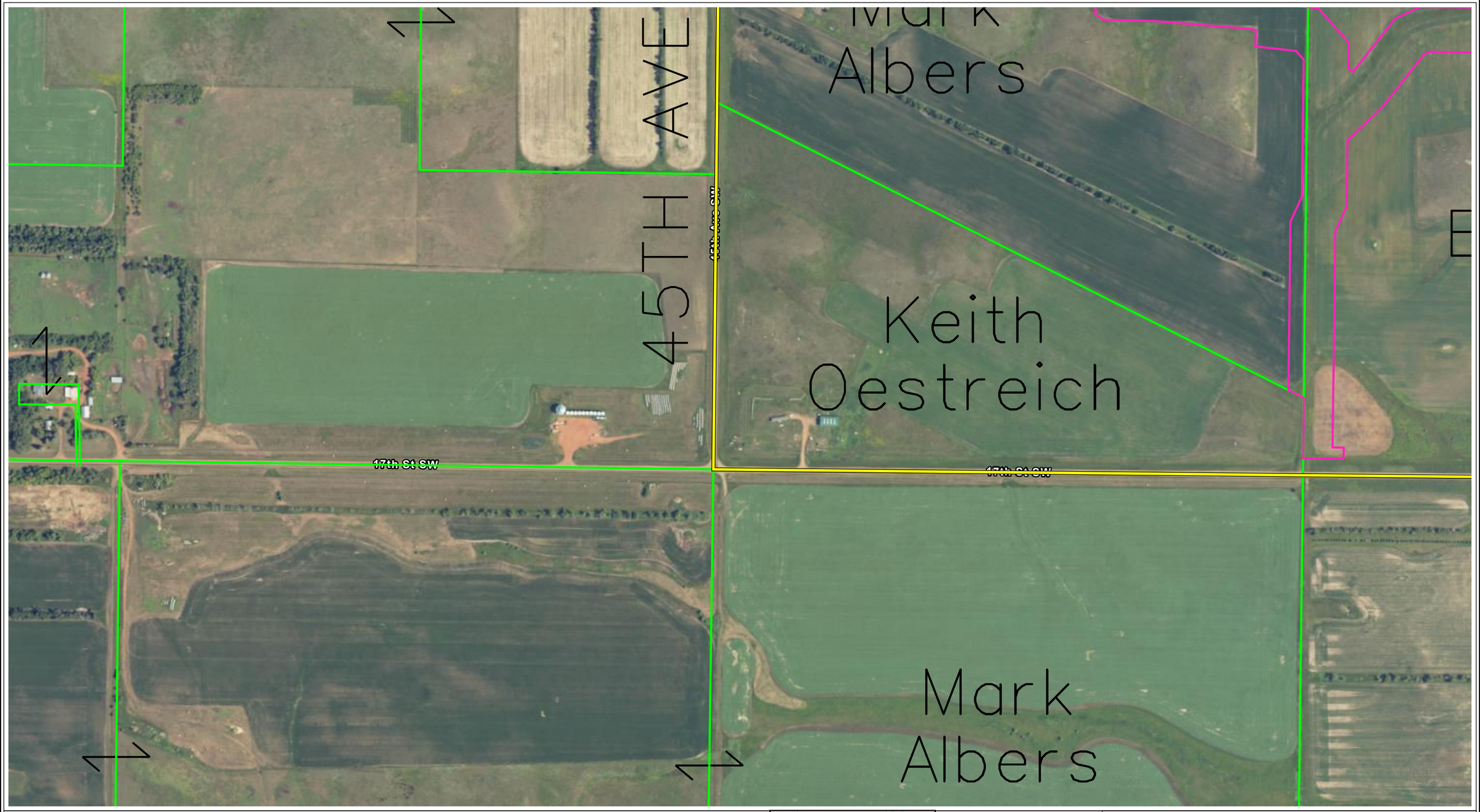
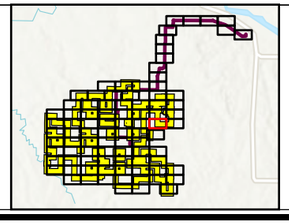
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)

Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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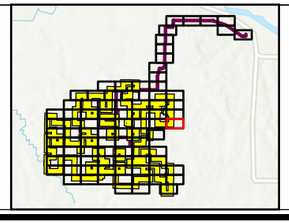
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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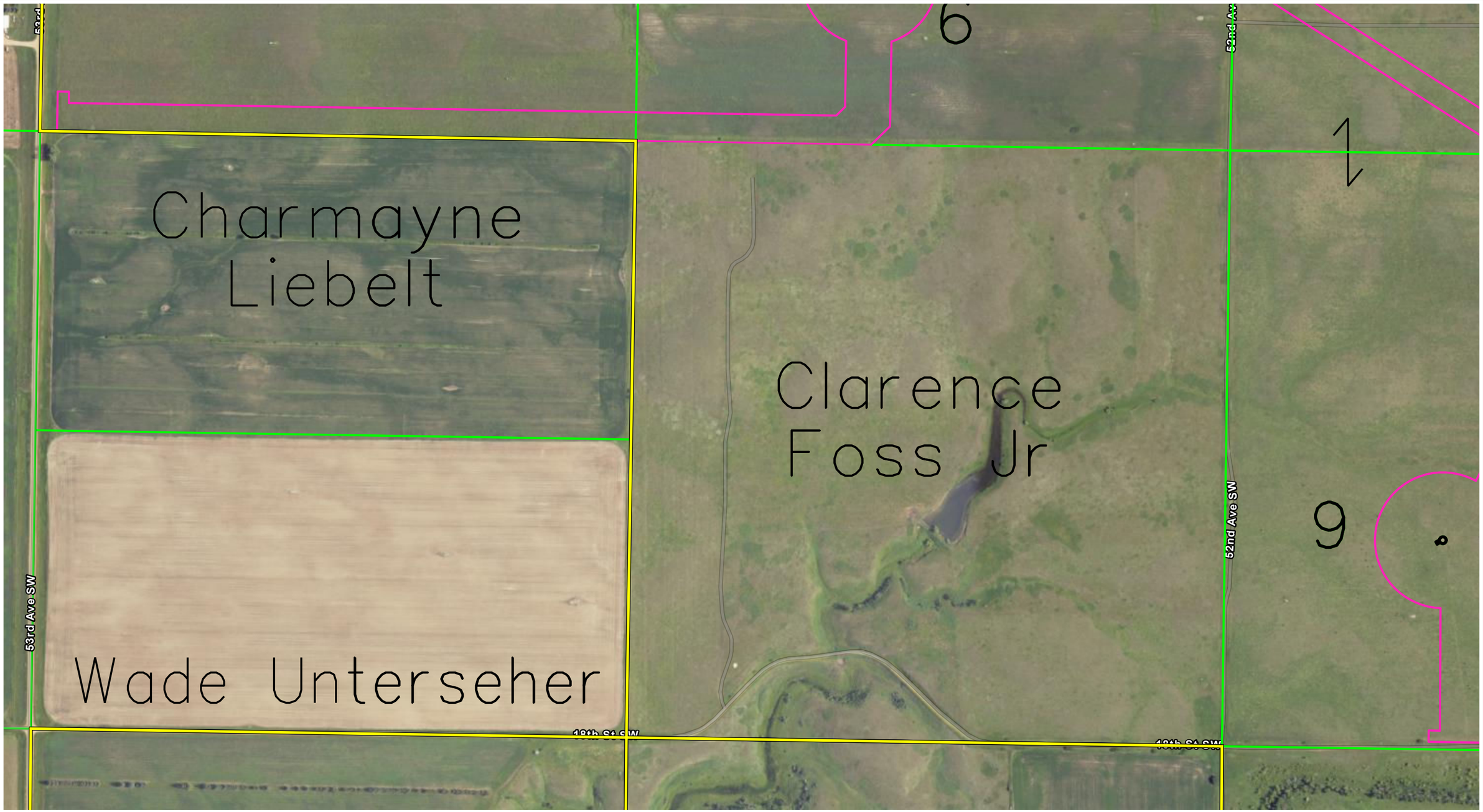
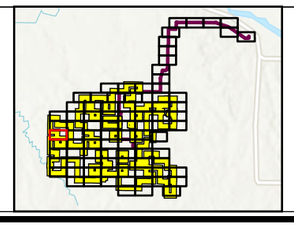
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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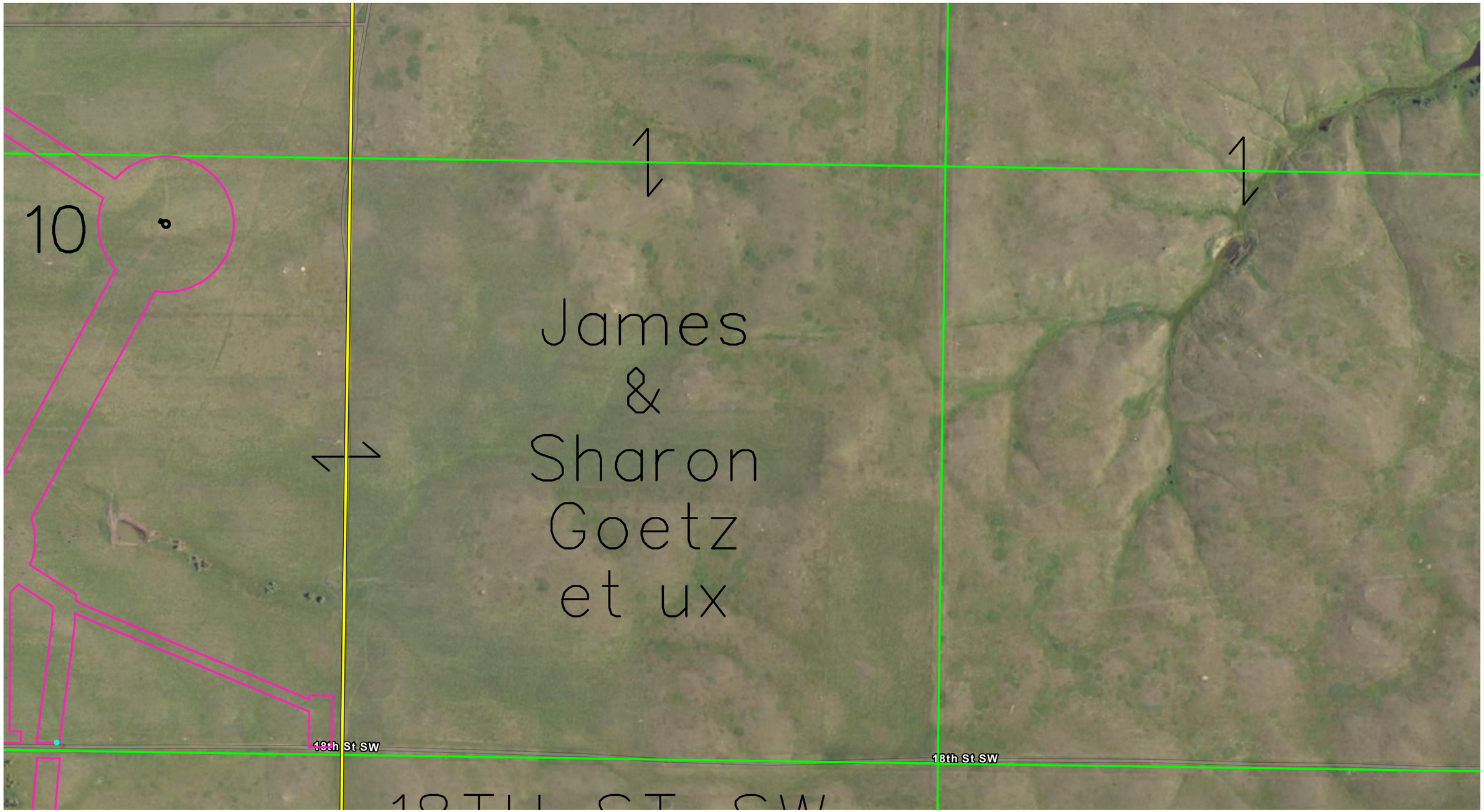
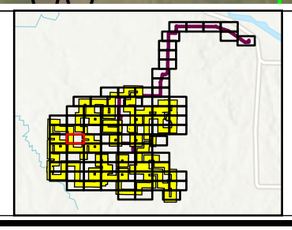
ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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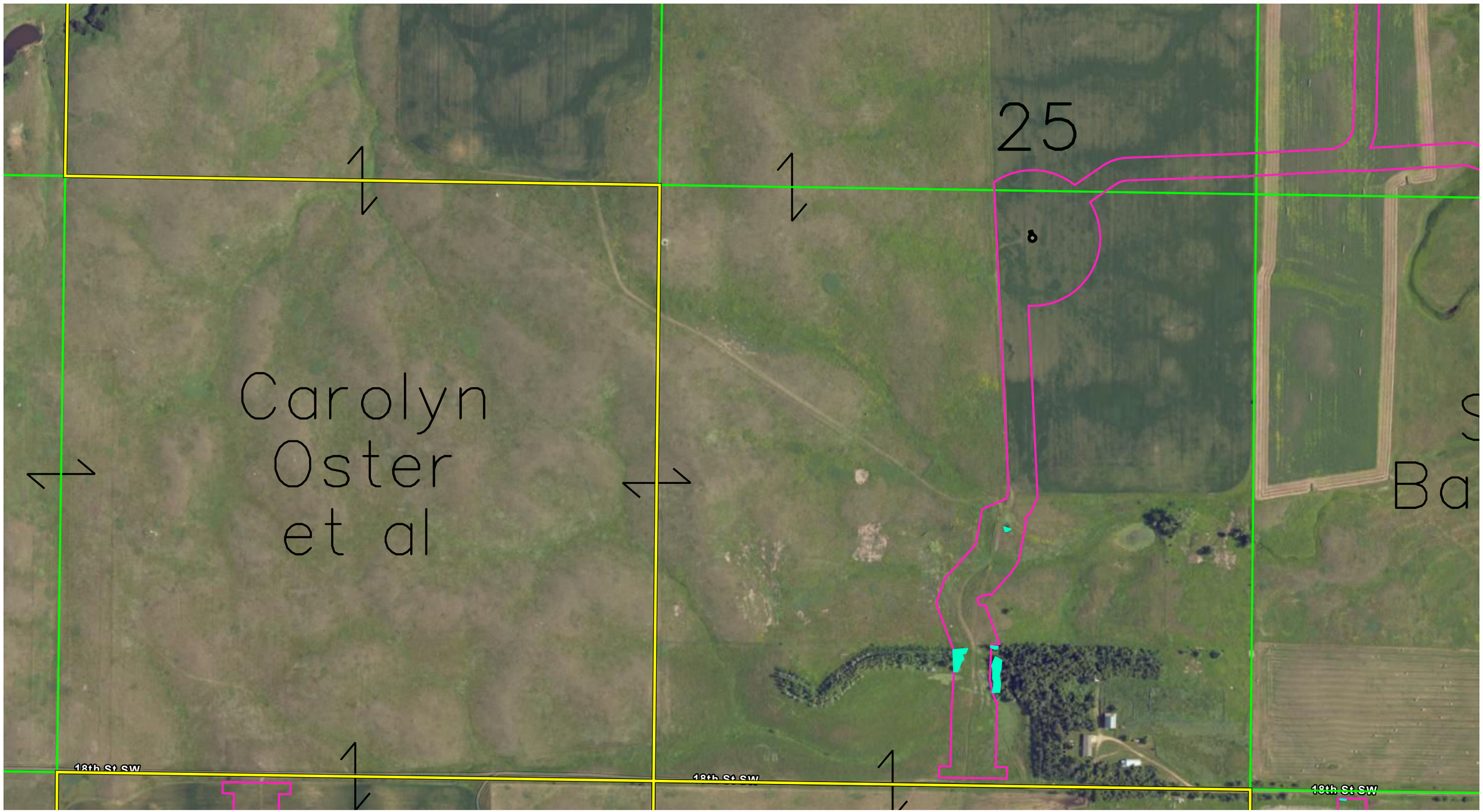
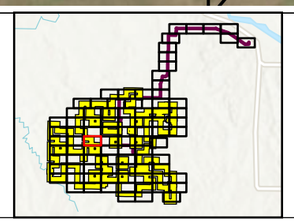
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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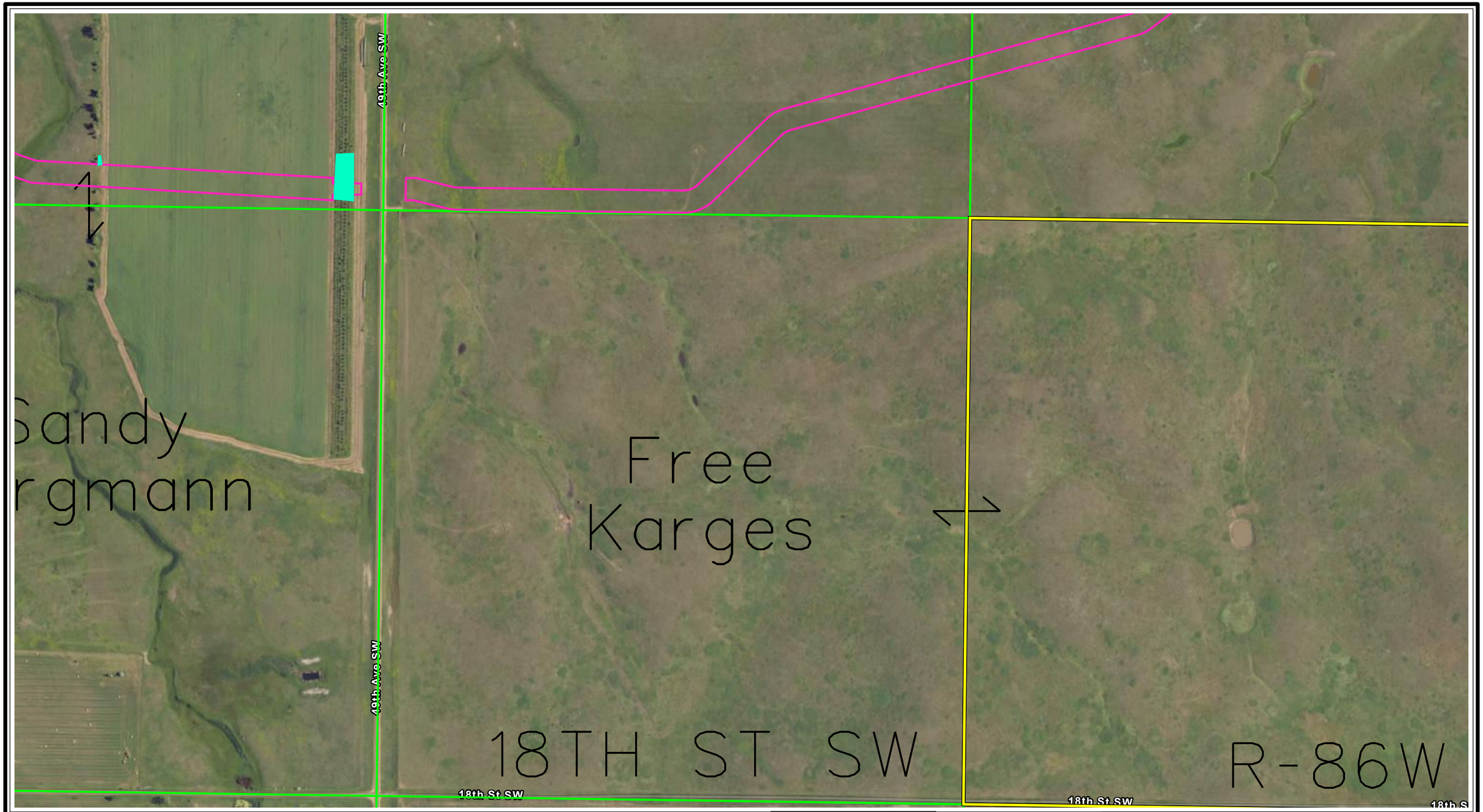
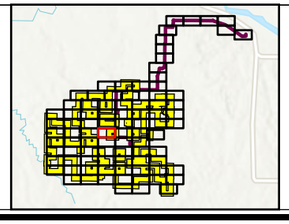
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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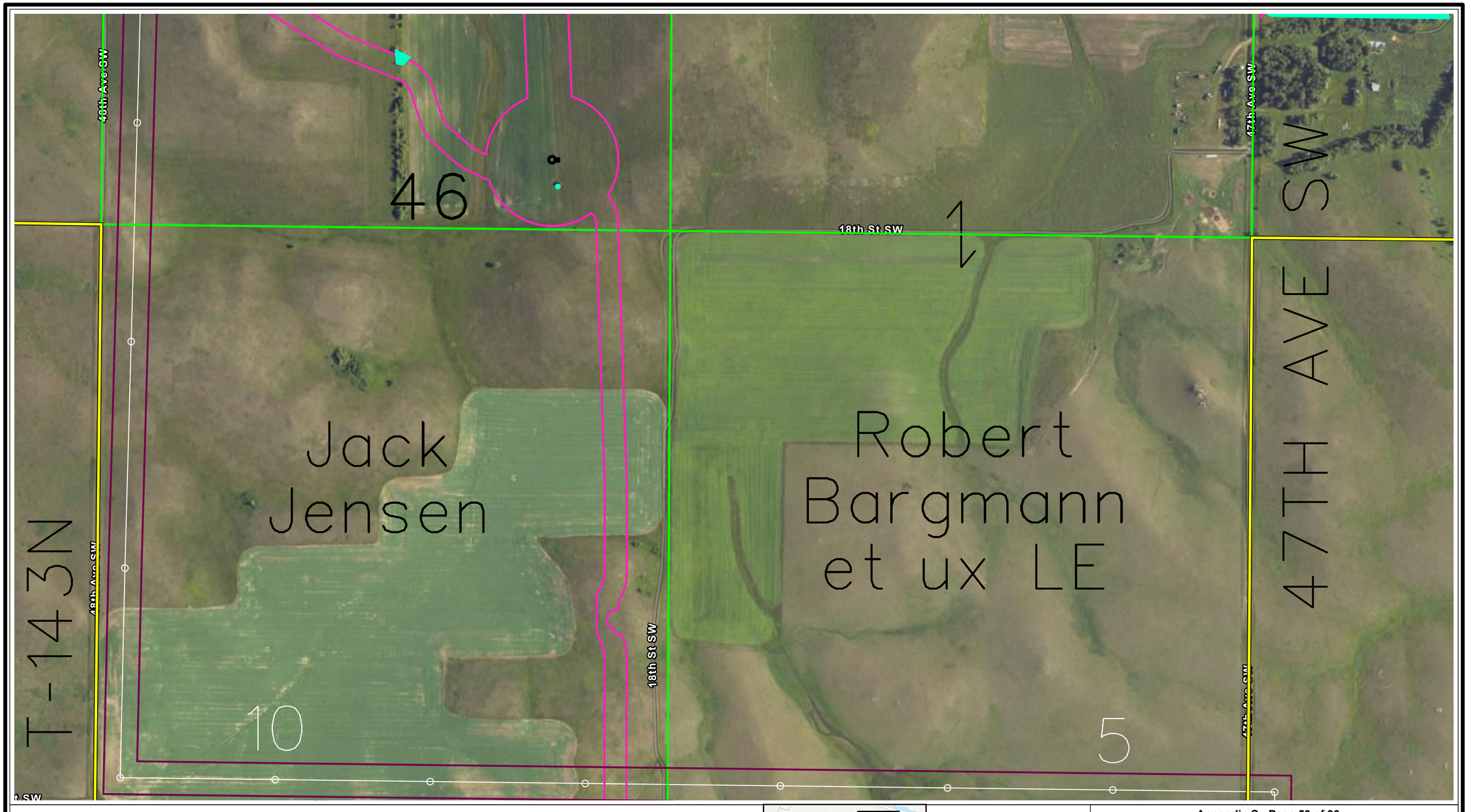
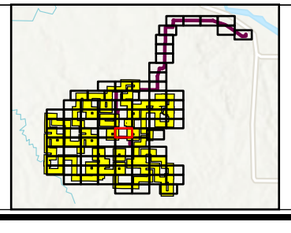
Date: 4/17/2025

ECT



- Project Area (± 24,677.20 Ac.)
- Turbine
- Construction Easement
- Transmission Easement
- Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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ECT

Brady Creek

46th Ave SW

46TH

1

Sandy
Bargmann
63

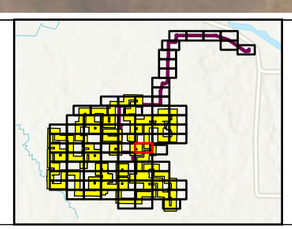
64

Sandy
Bargmann

46th Ave SW

18

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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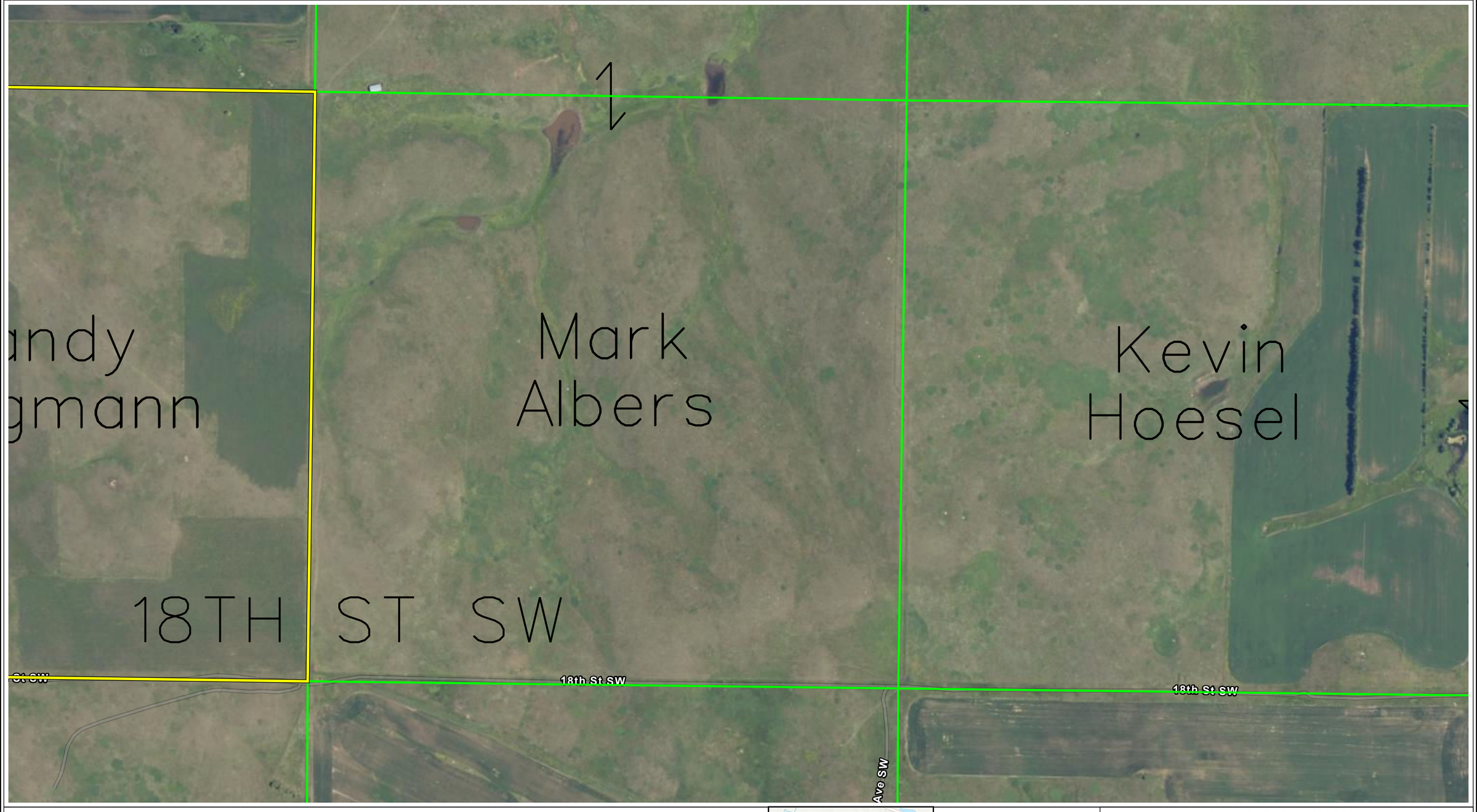
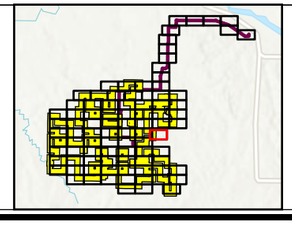
ECT



Project Area (± 24,677.20 Ac.)



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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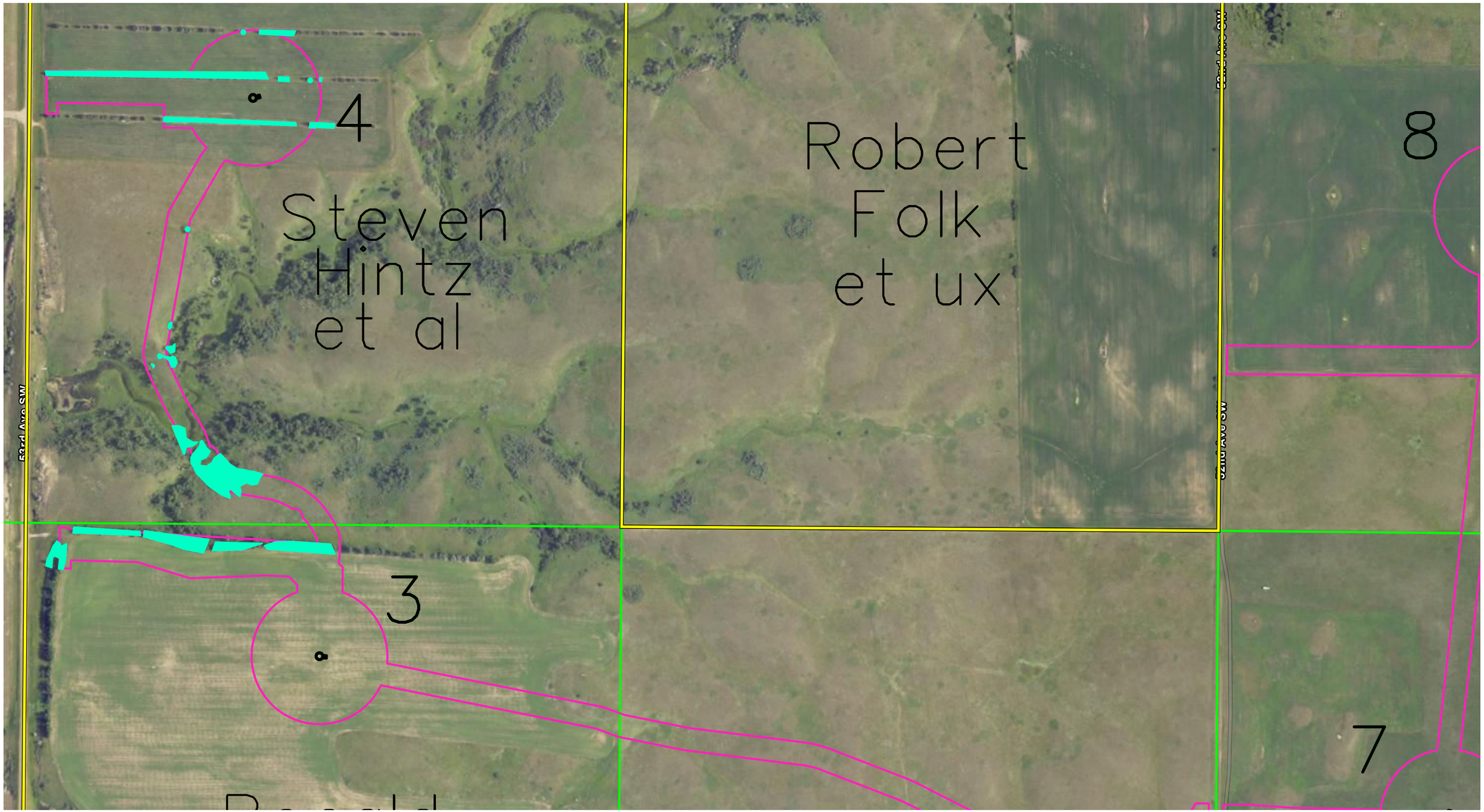
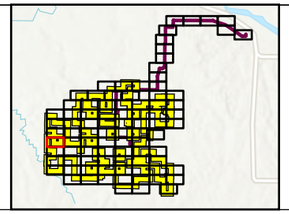
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
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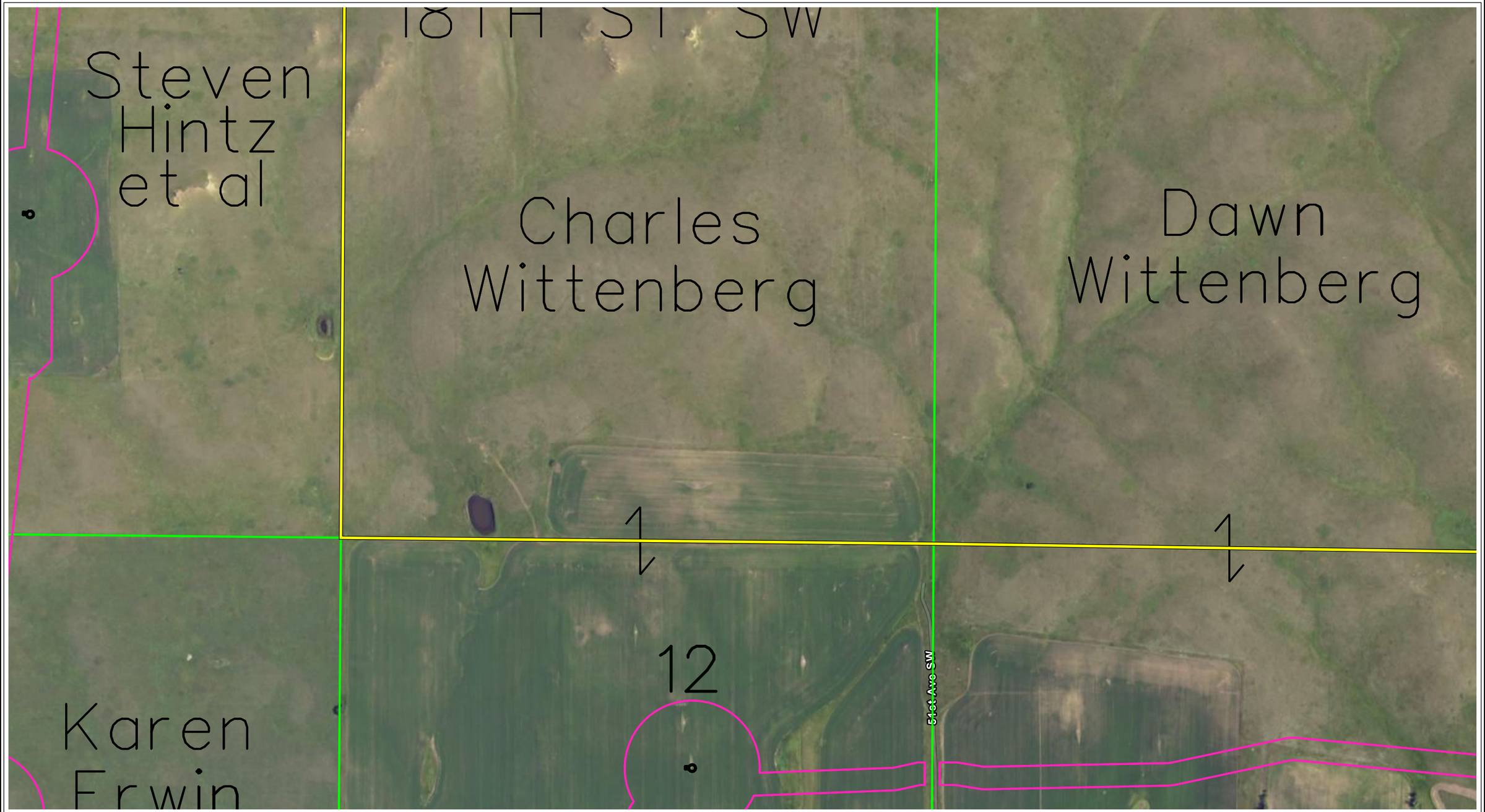
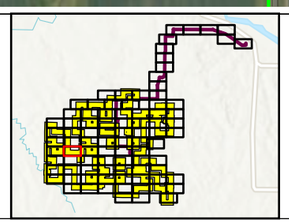
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



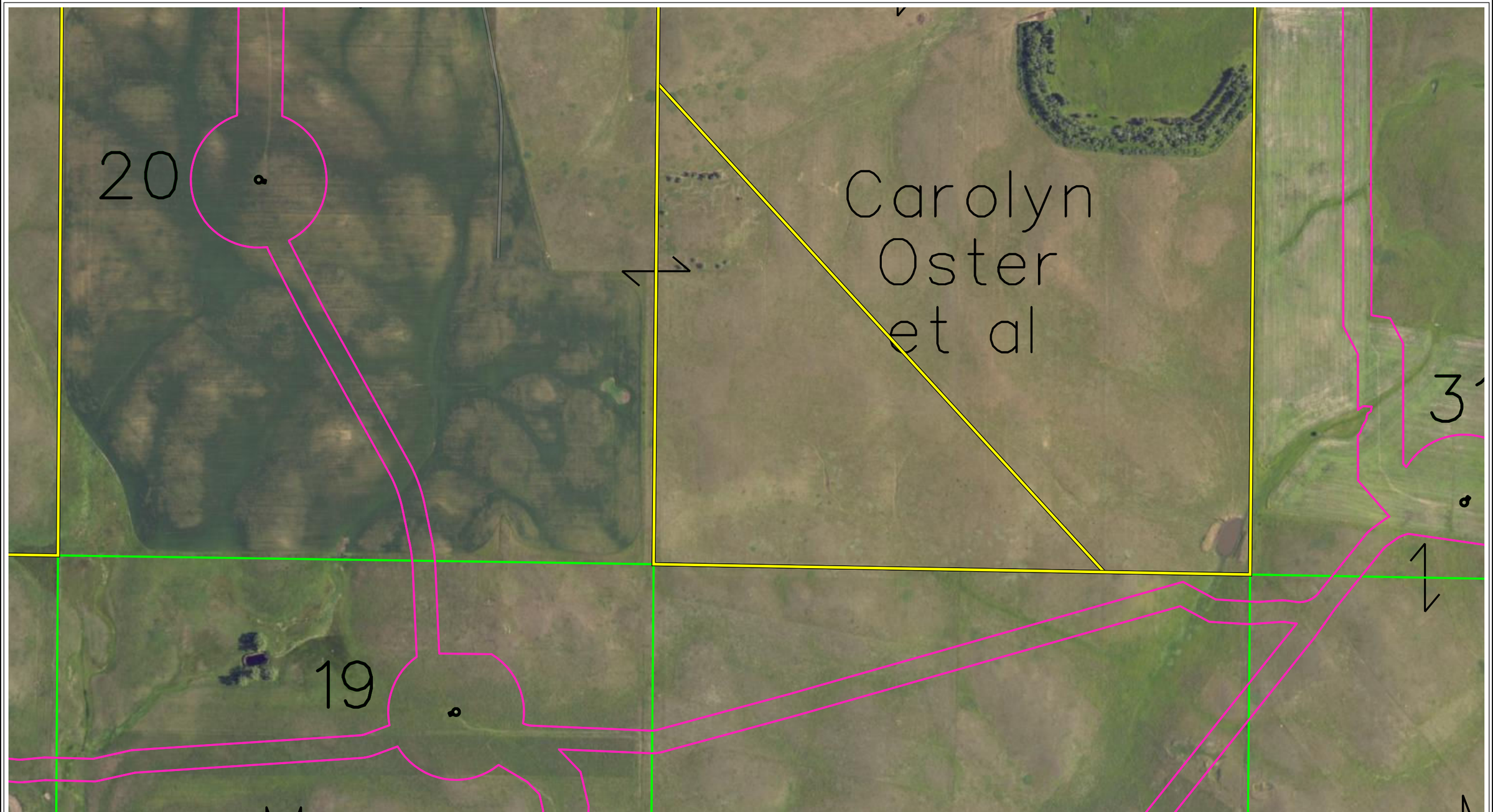
N

0 250 500
Feet

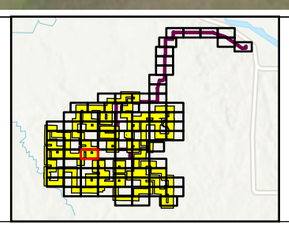
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 54 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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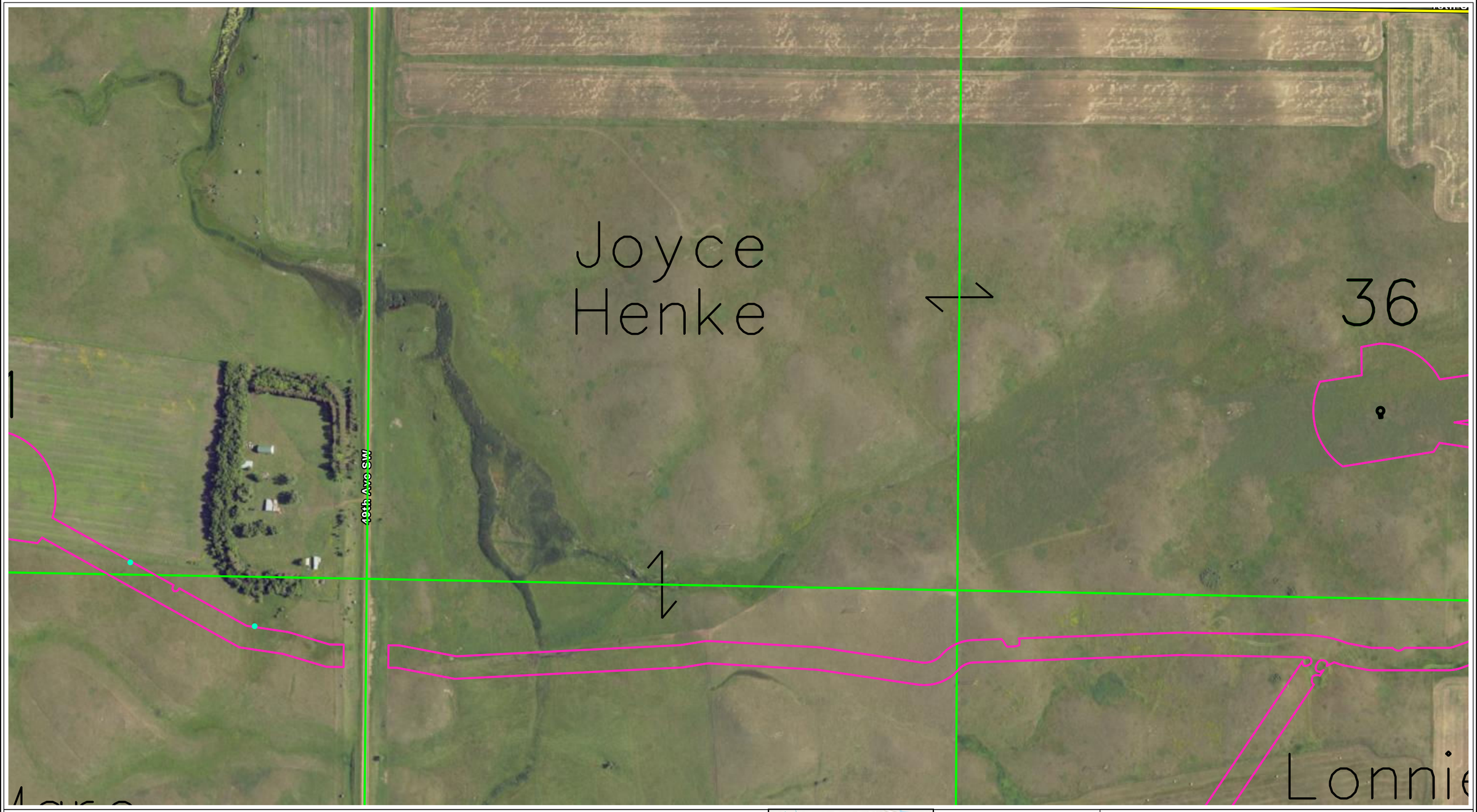
Feet

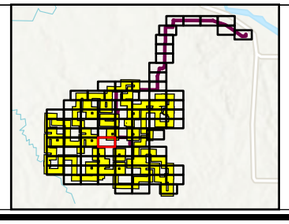
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 55 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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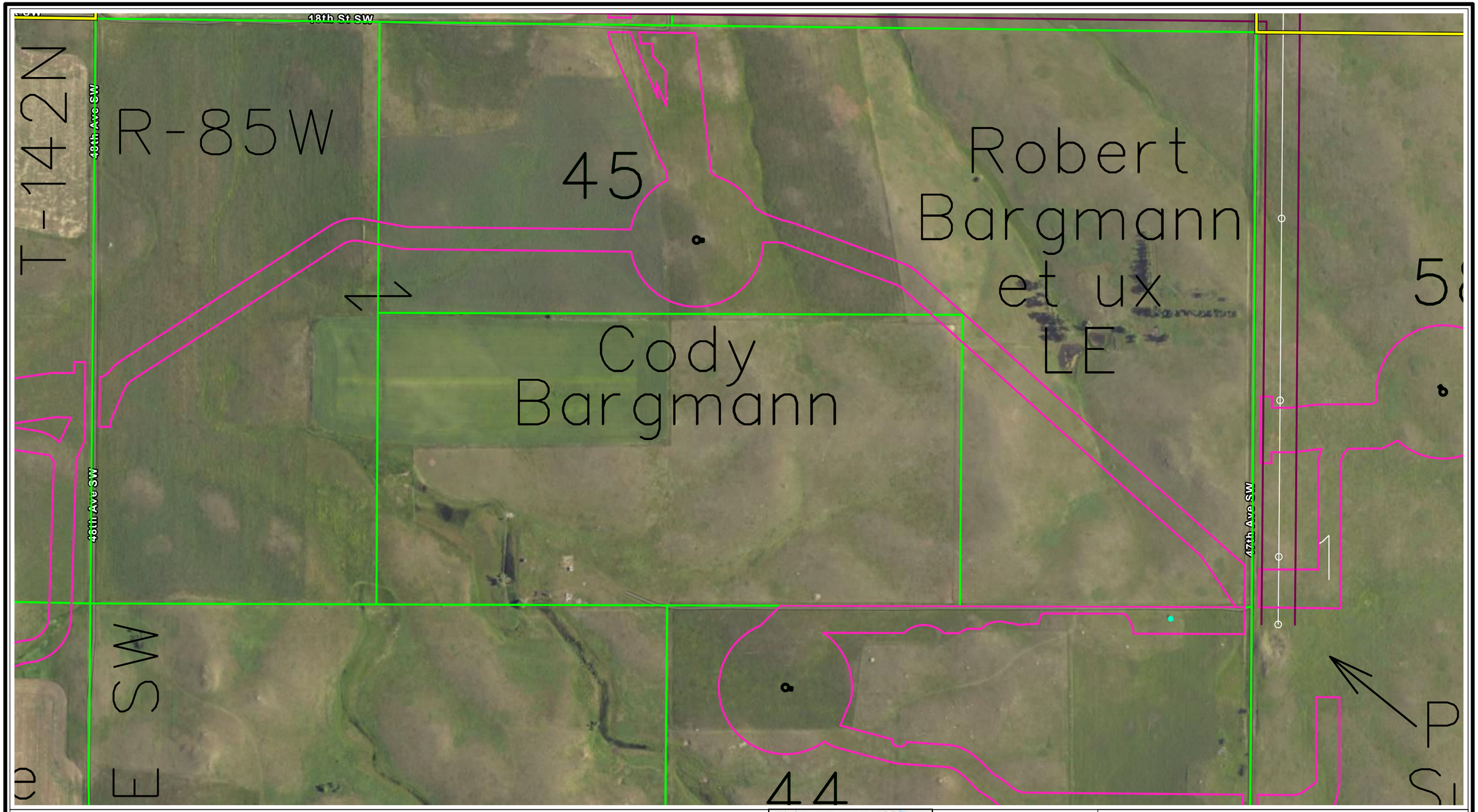
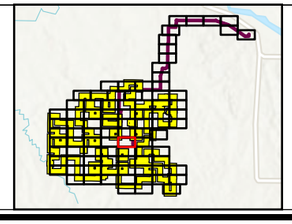
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 56 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Transmission Easement
Tree or Shrub Removed



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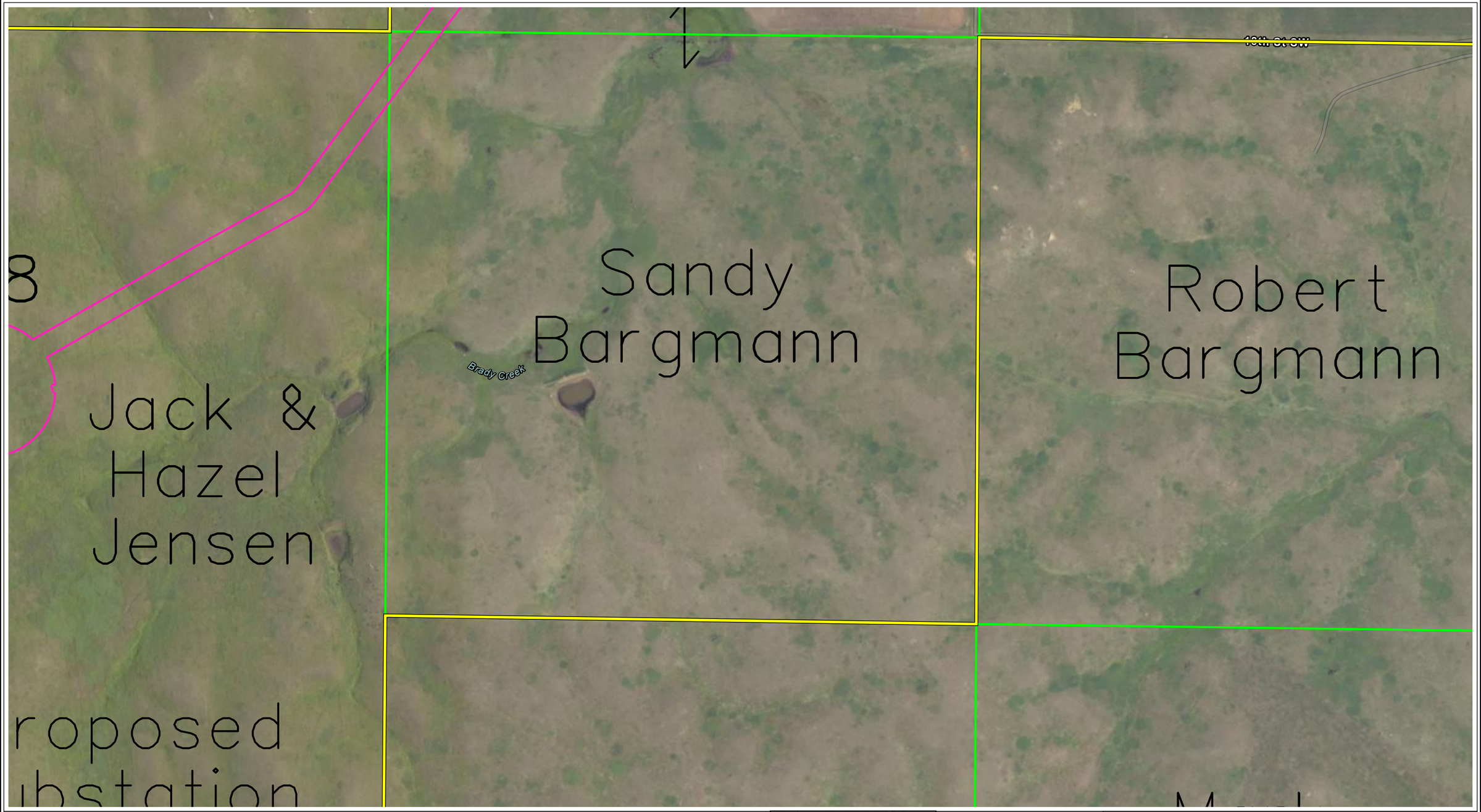
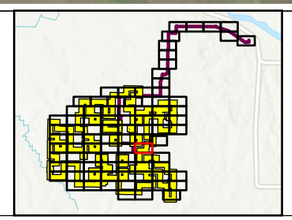
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 57 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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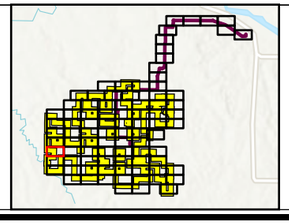
Feet

Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 58 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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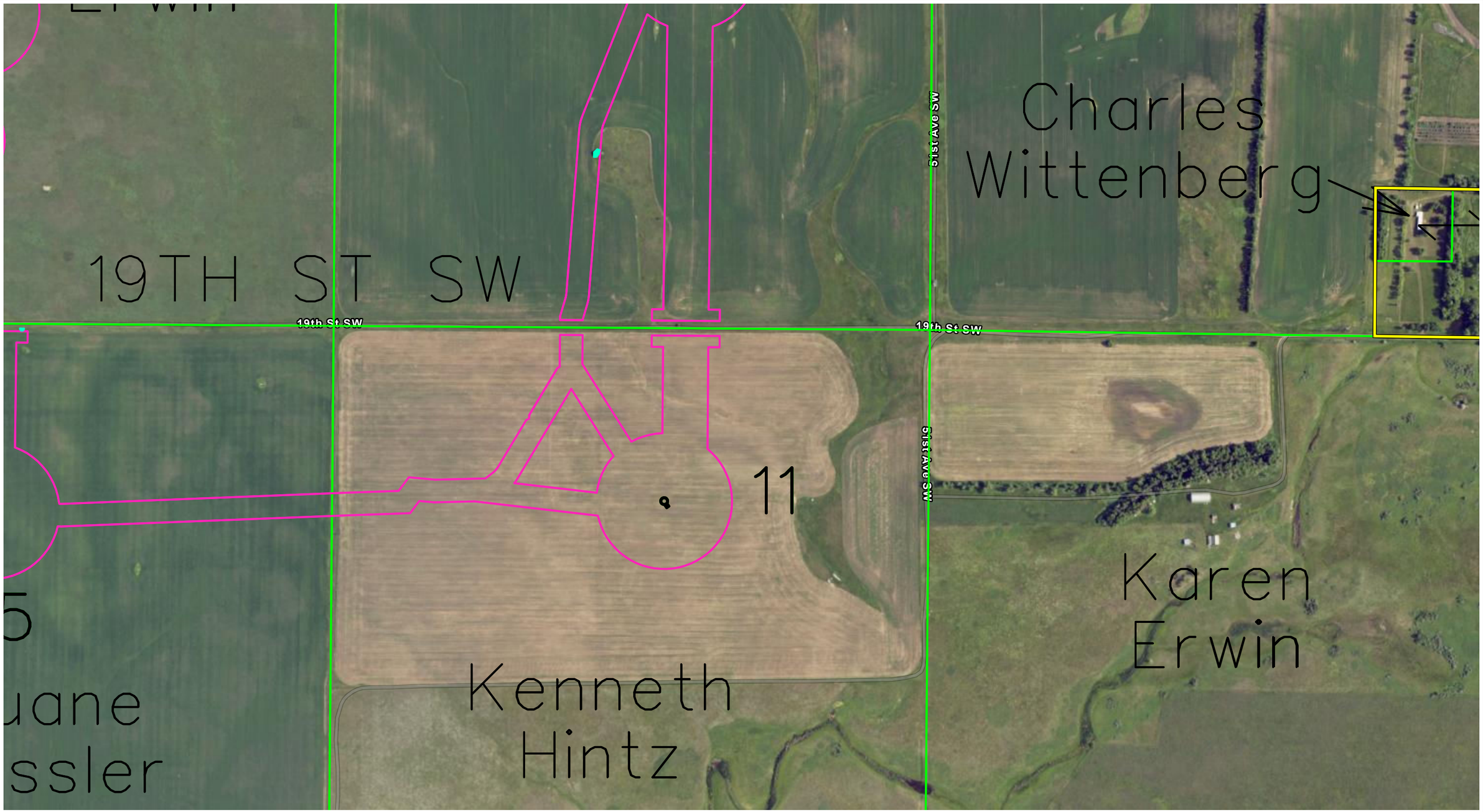
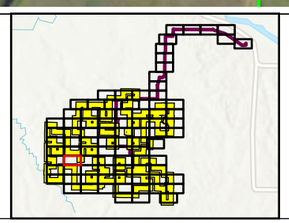
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 59 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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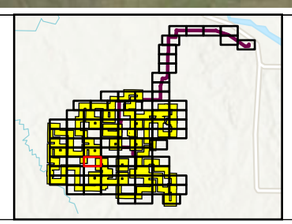
Feet

Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 60 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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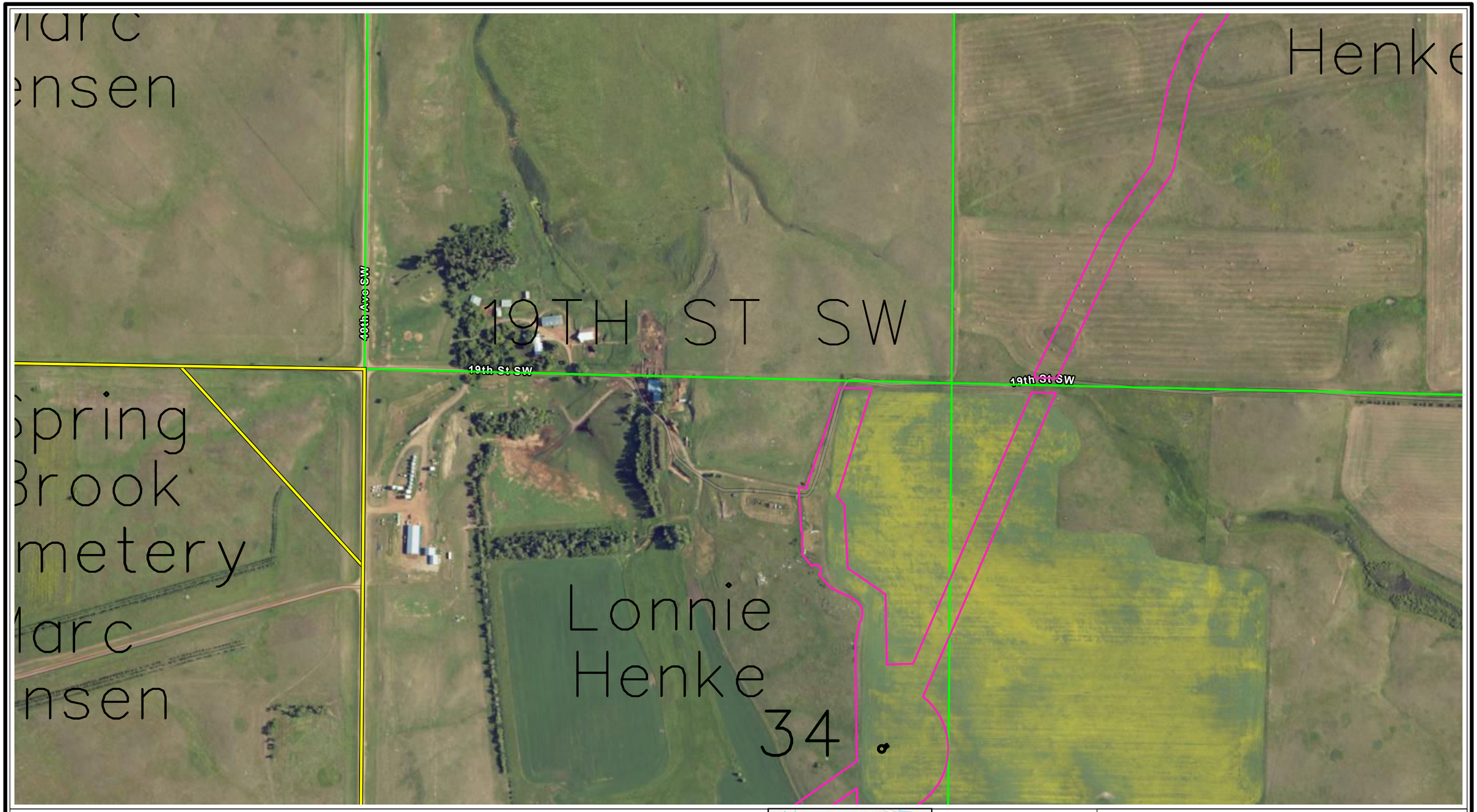
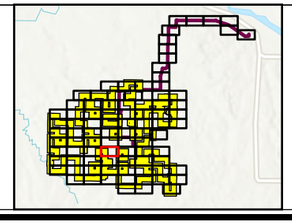
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Delbert
Bargmann

48TH AV

46th Ave SW

19th St SW

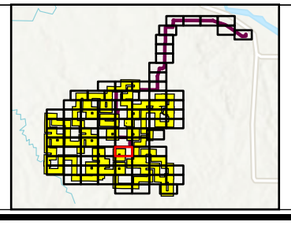
47th Ave SW

Blaine
Wilkens

53

Kelly

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Base Layer: NAIP Aerial Imagery 2023

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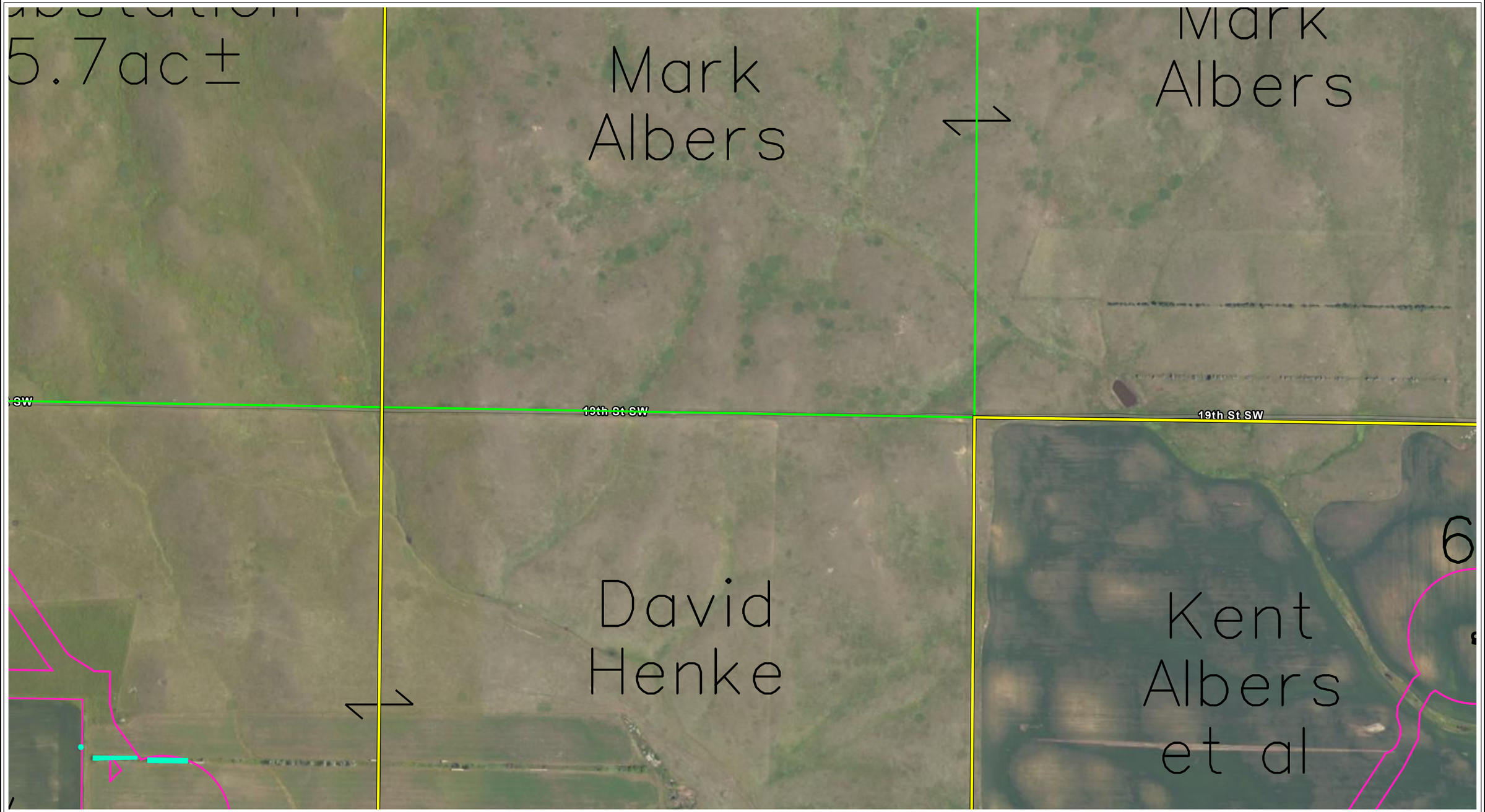
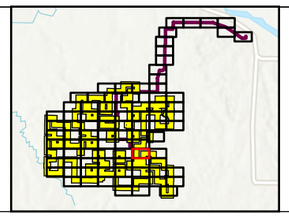
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

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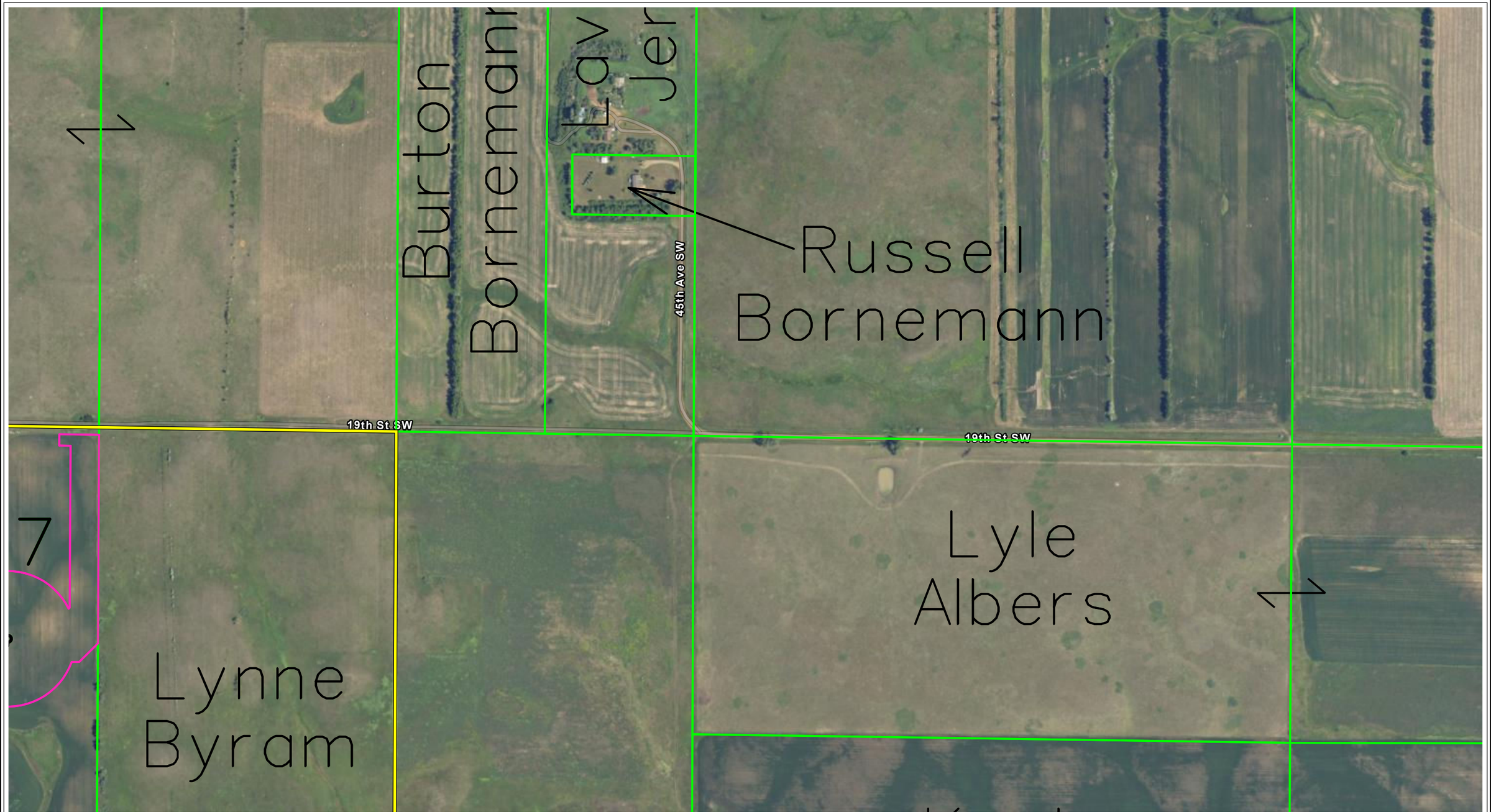
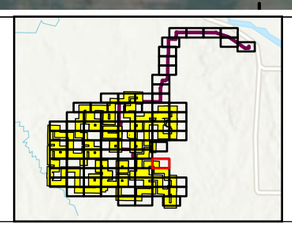
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Base Layer: NAIP Aerial Imagery 2023

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Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
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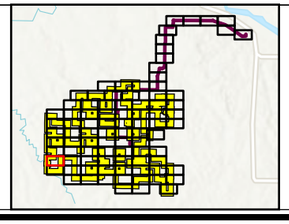
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
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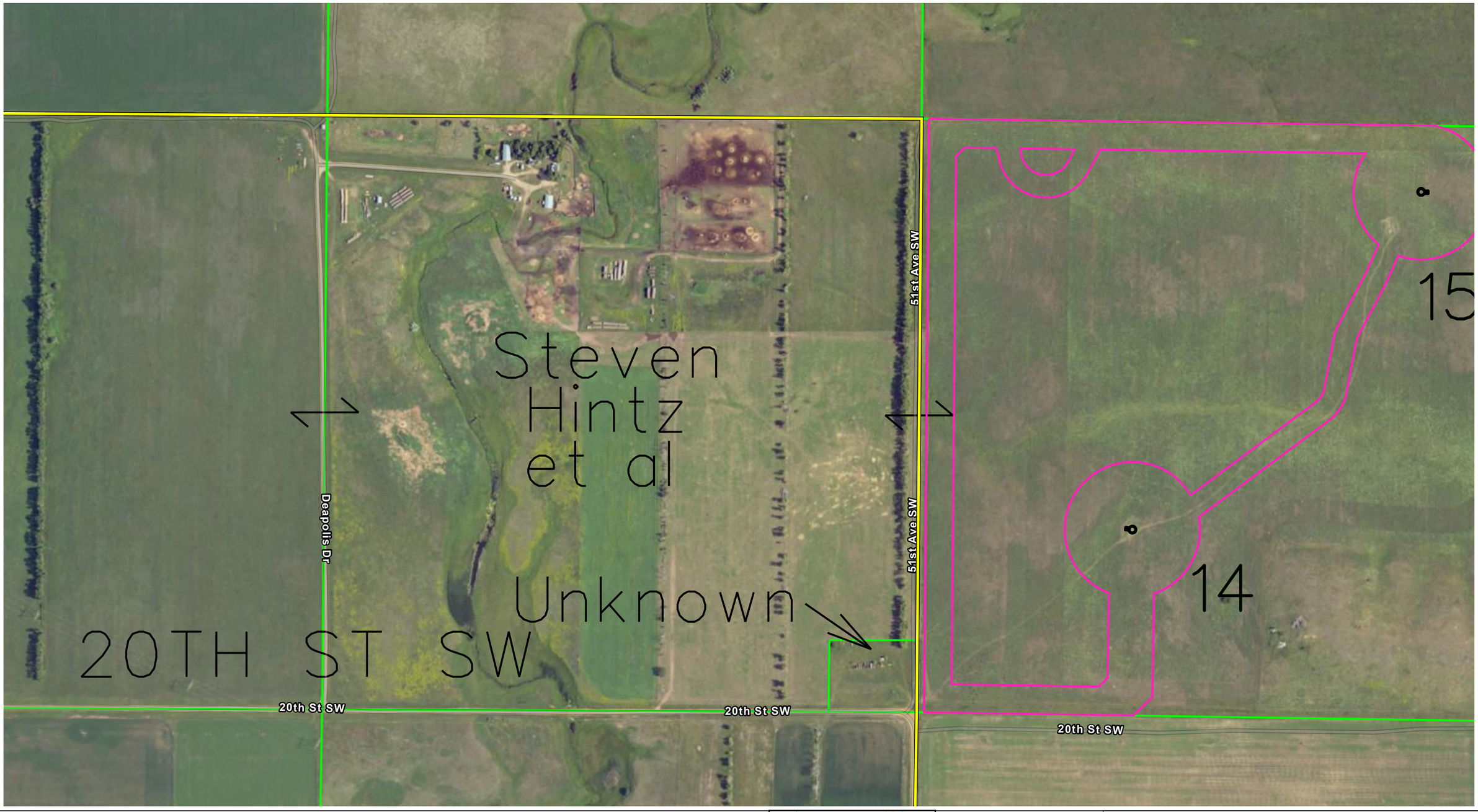
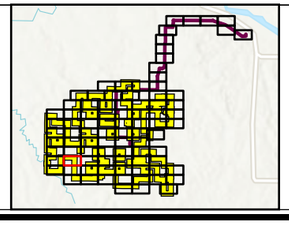
ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Feet

Base Layer: NAIP Aerial Imagery 2023

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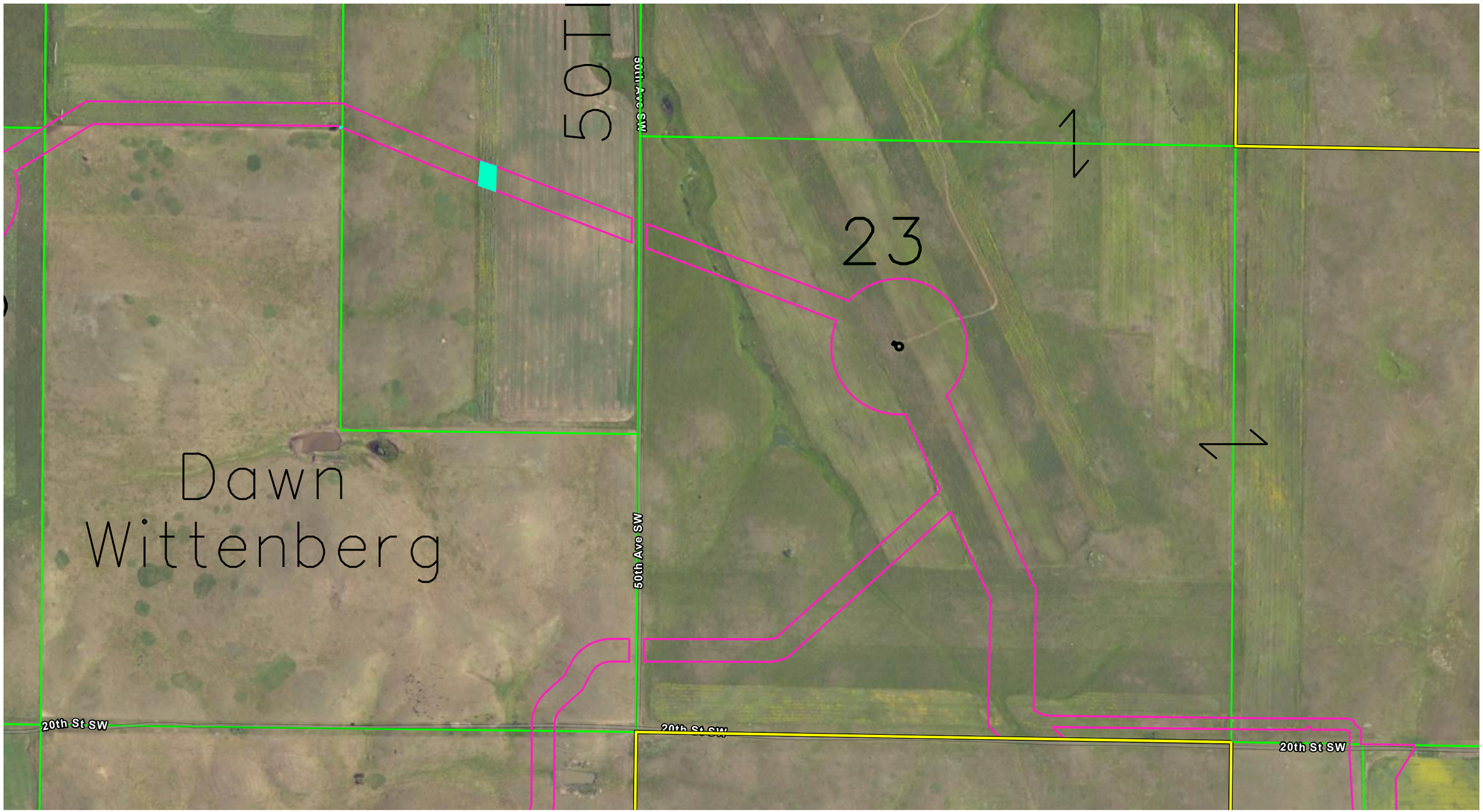
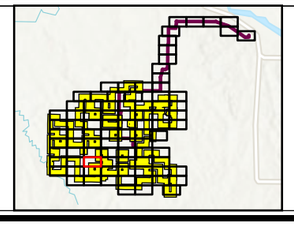
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
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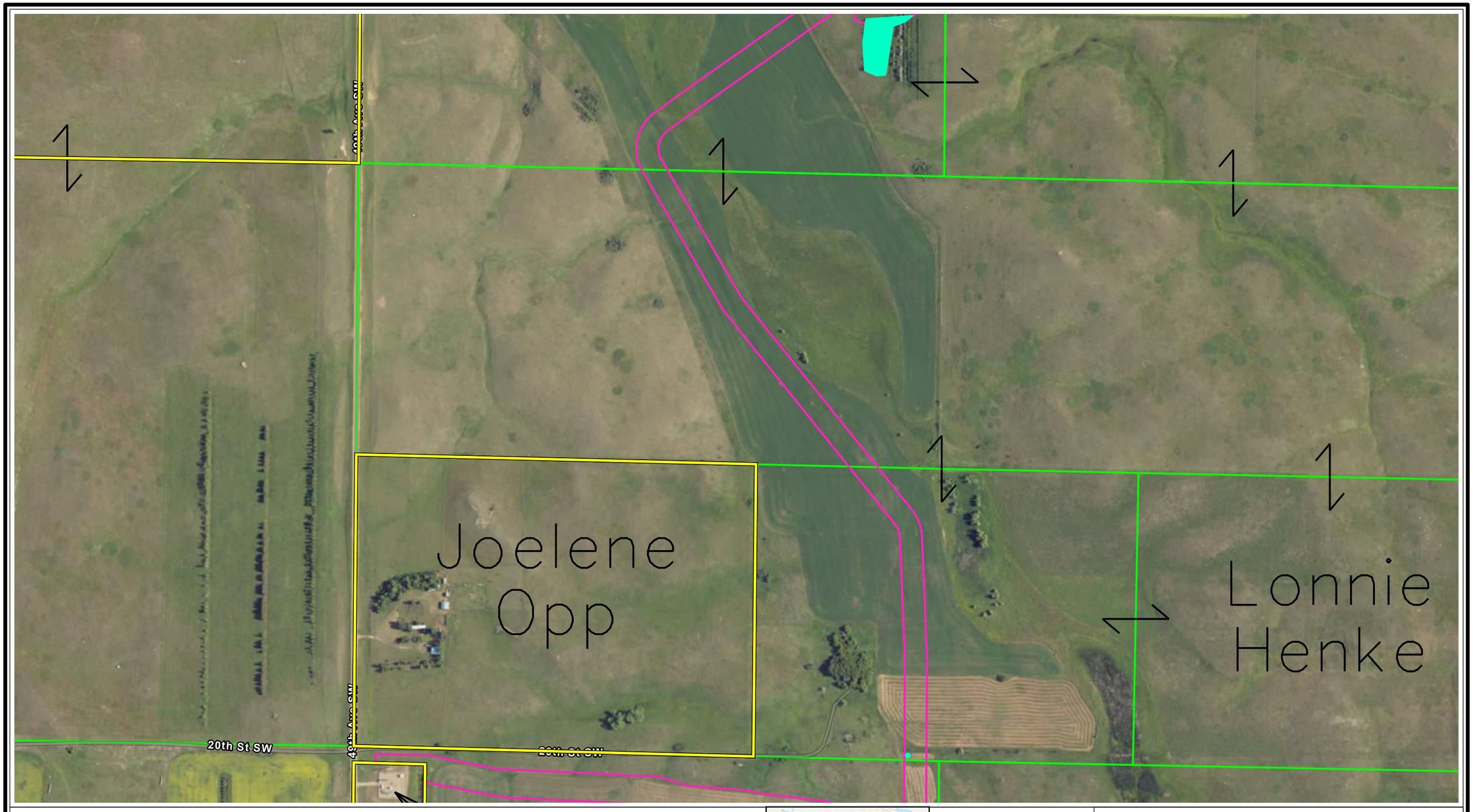
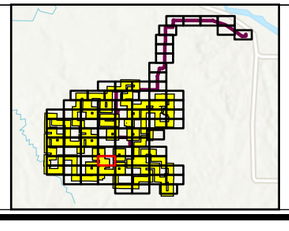
ECT



Project Area (± 24,677.20 Ac.)
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
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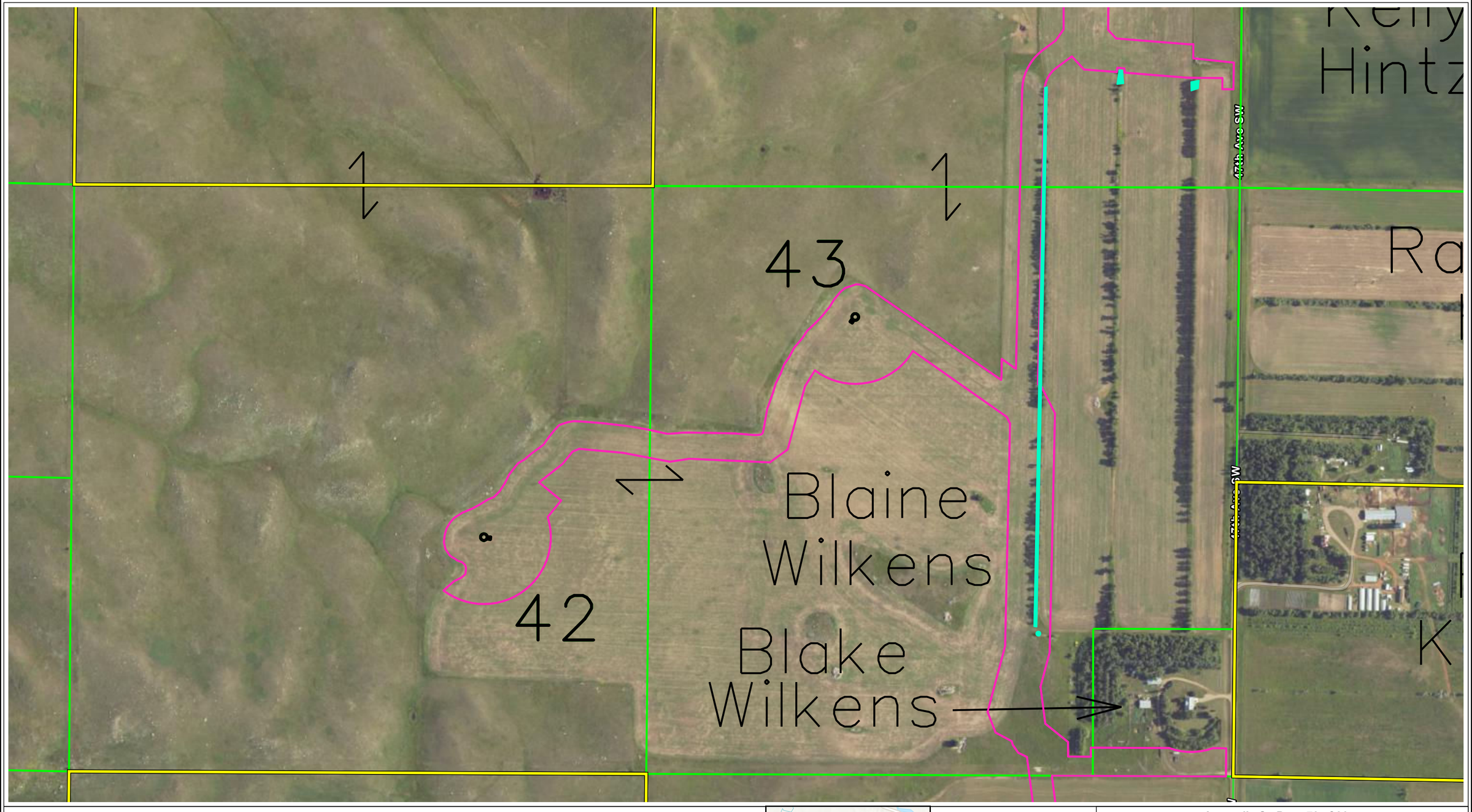
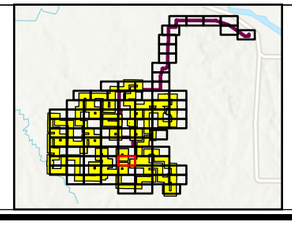
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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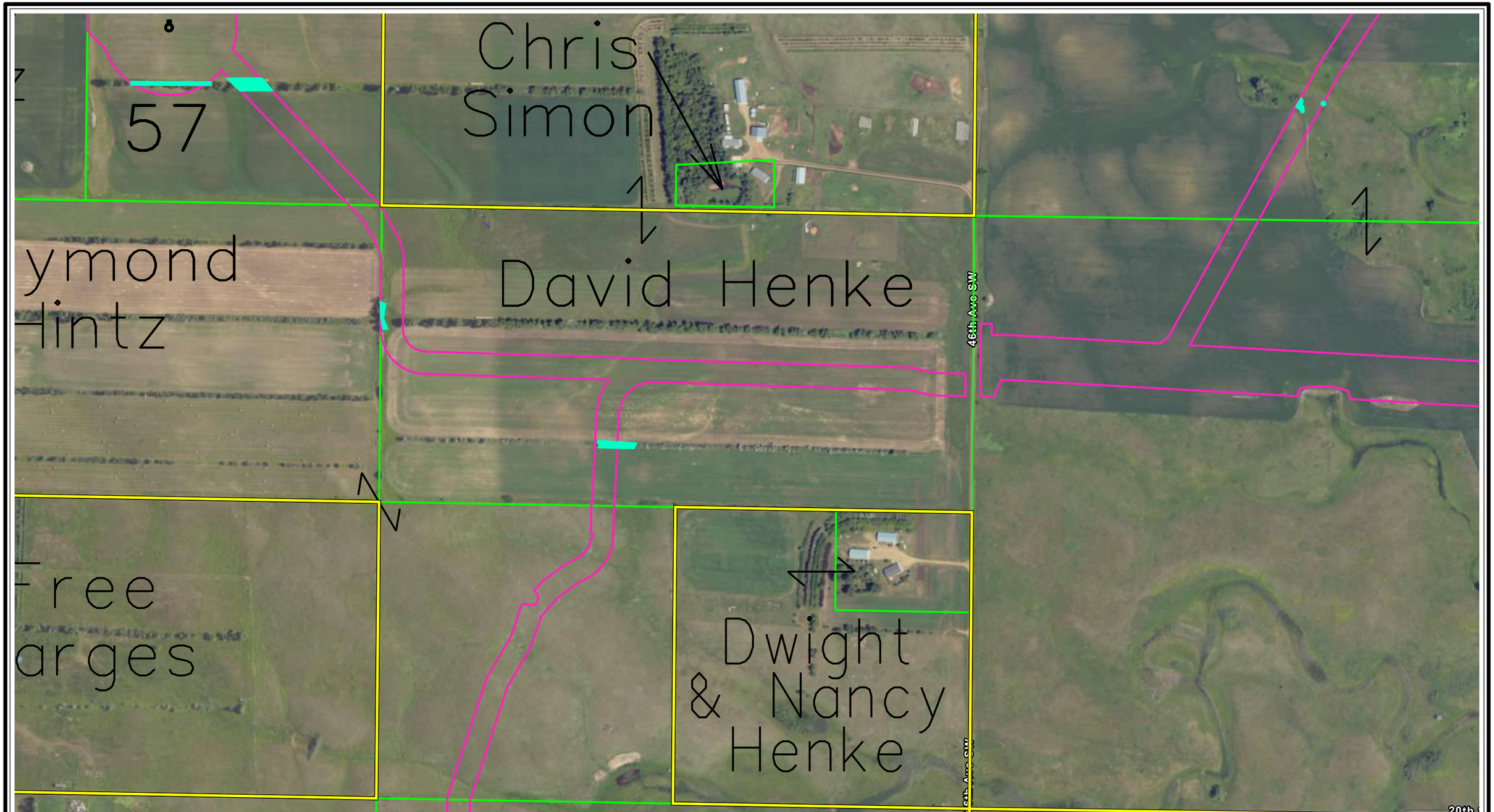
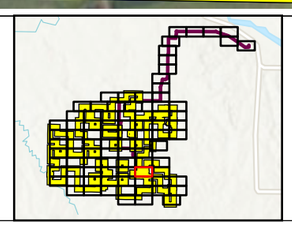
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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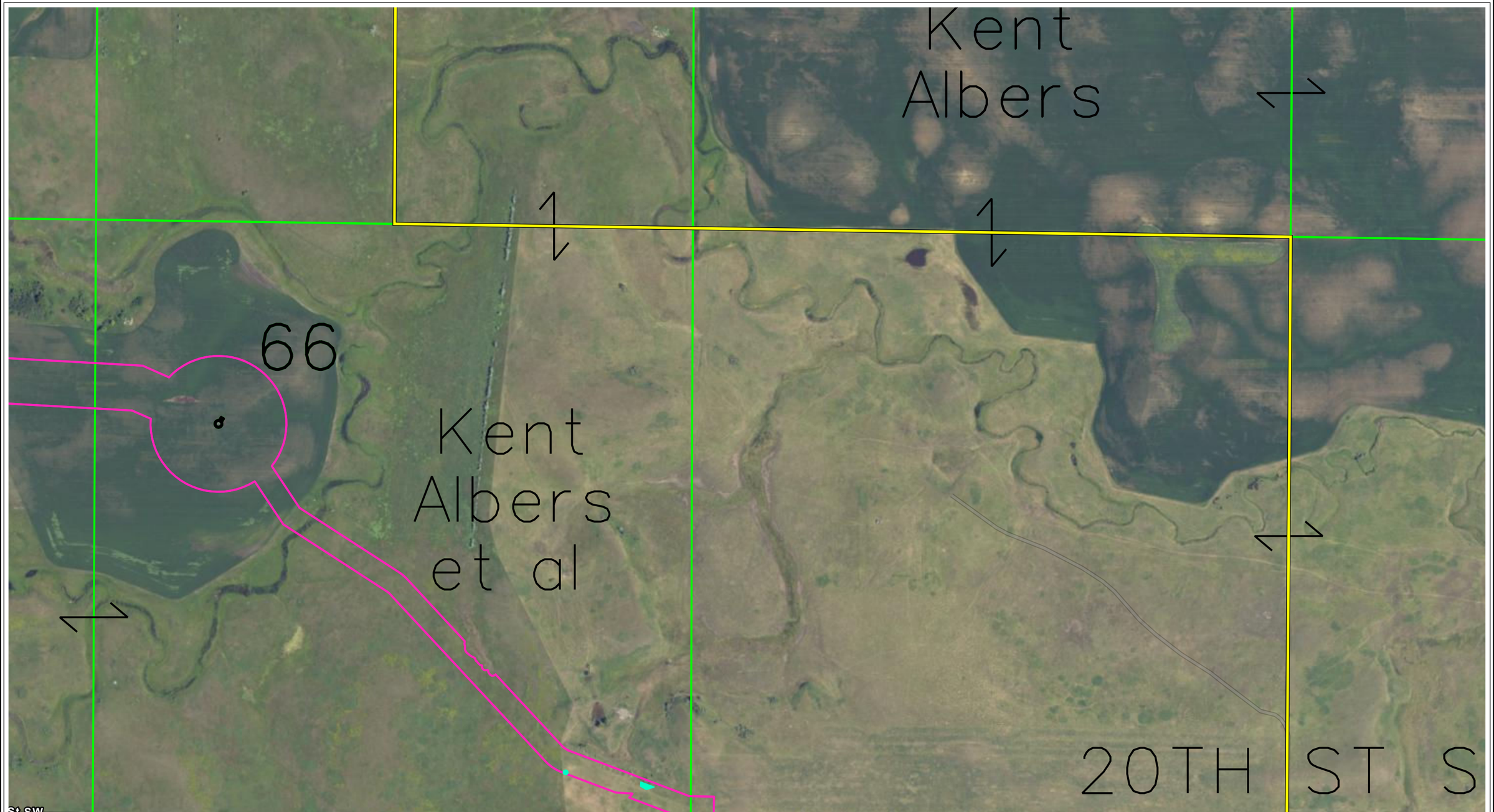
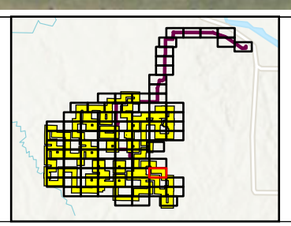
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
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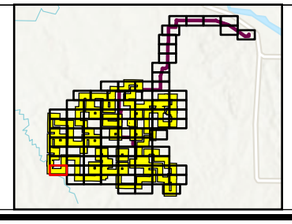
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

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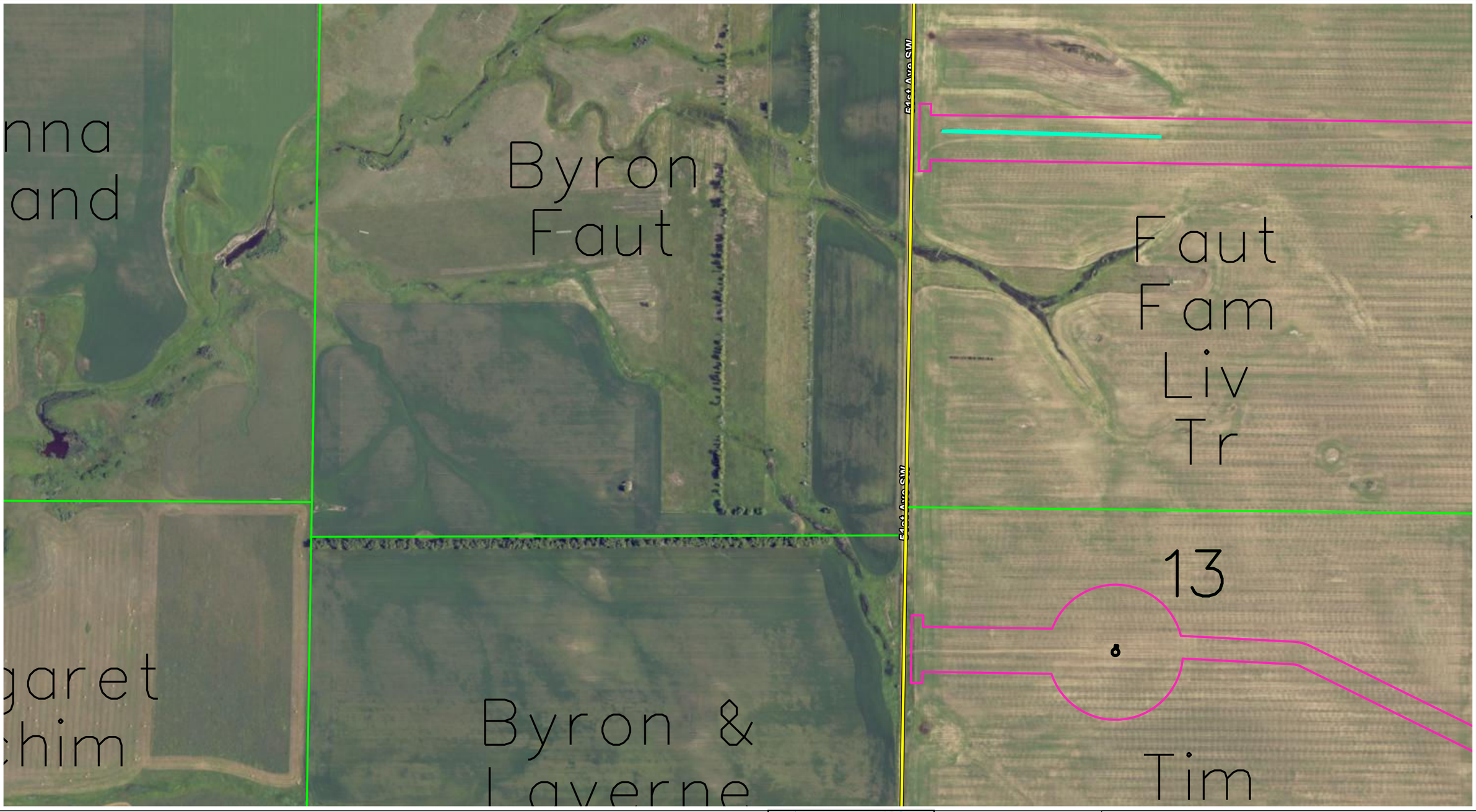
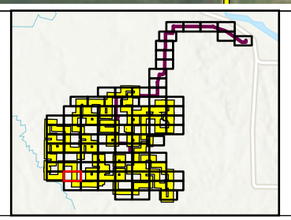
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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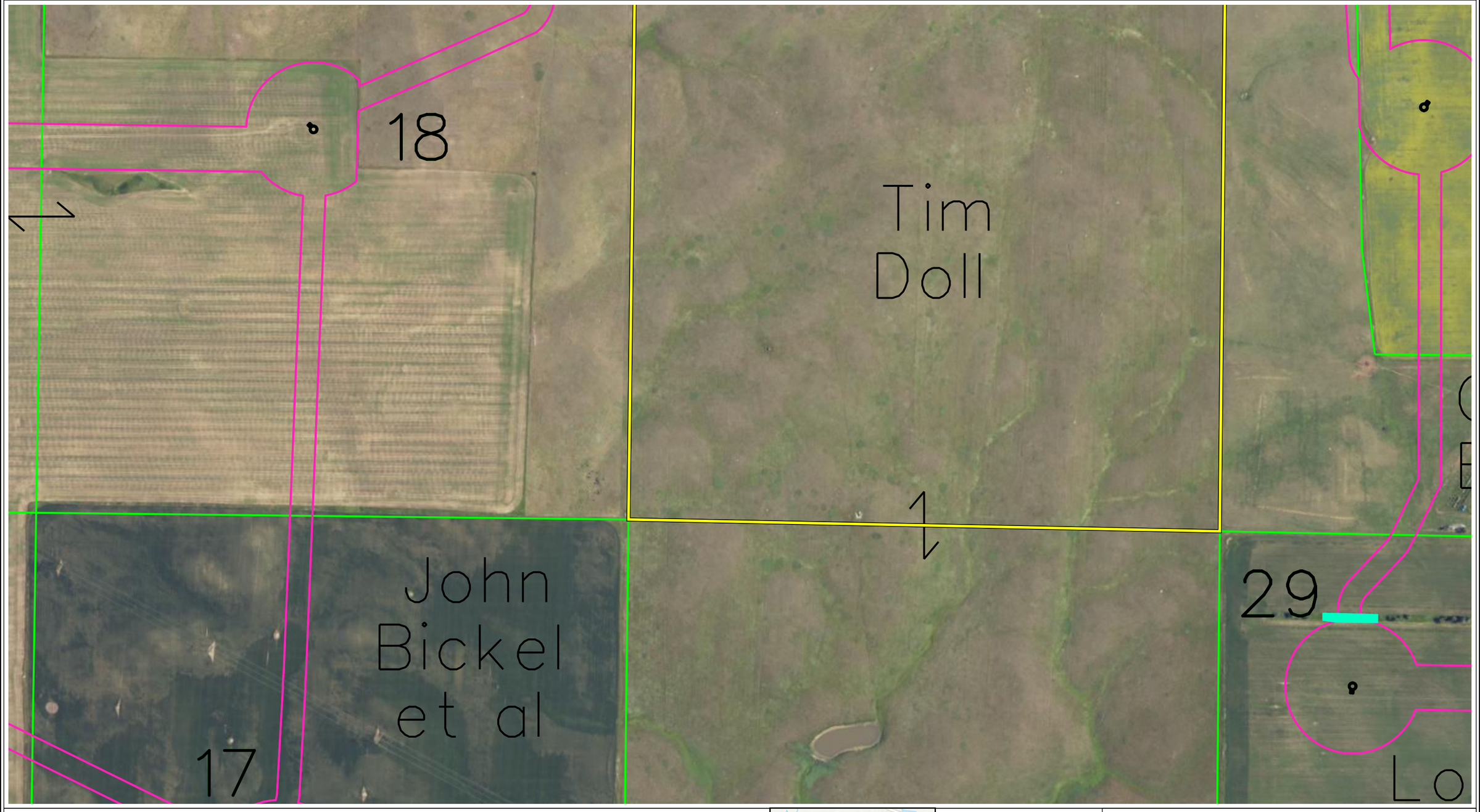
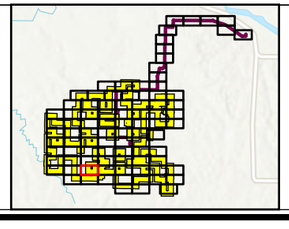
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
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Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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30

Lonnie
Henke

Roughrider
Elect Coop

Lonnie
Henke 33

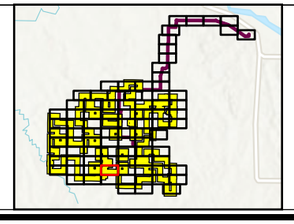
Casey
Blohm

nnie

1

Jeffrey

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Feet

Base Layer: NAIP Aerial Imagery 2023

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Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
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Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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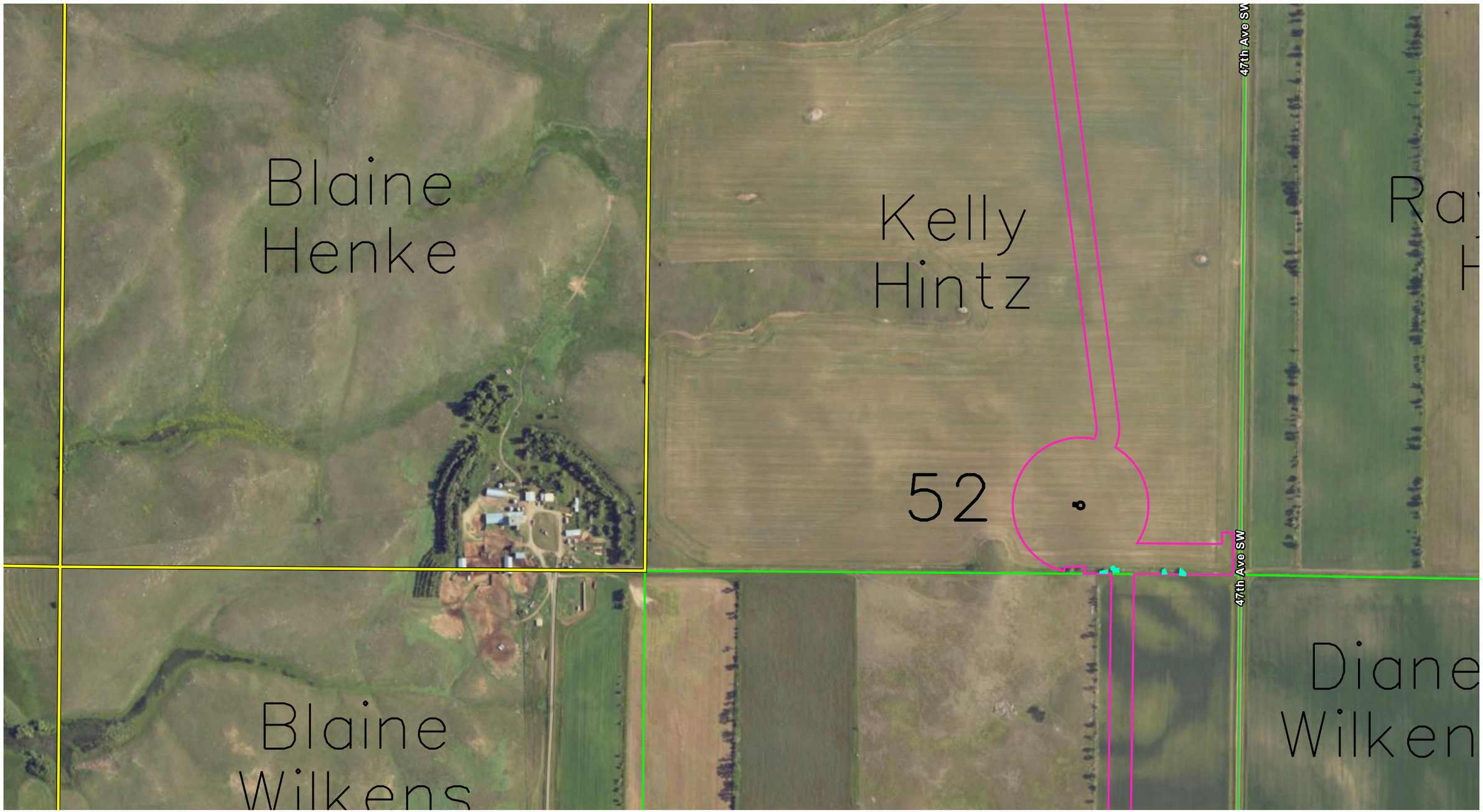
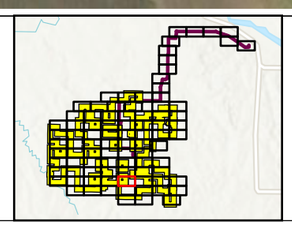


Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 77 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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Dwight
&
Nancy
Henke

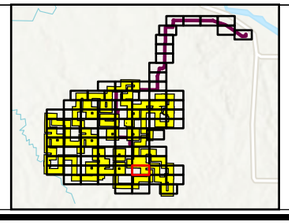
Kent
Albers
et al

46th Ave SW

s Travis
Wilkens

Dwight
& Nancy
Henke

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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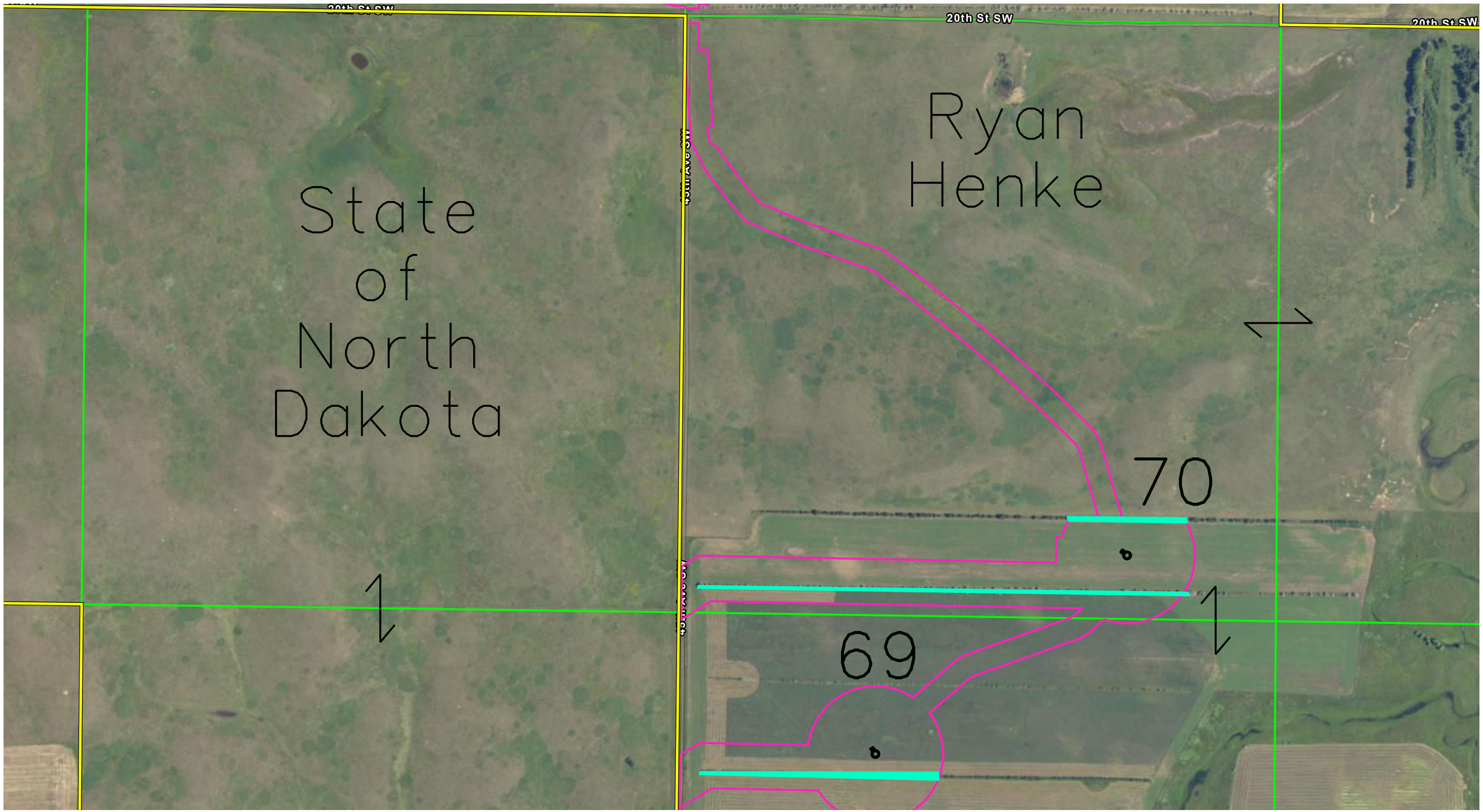
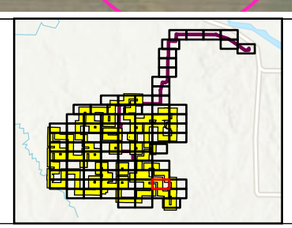
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 78 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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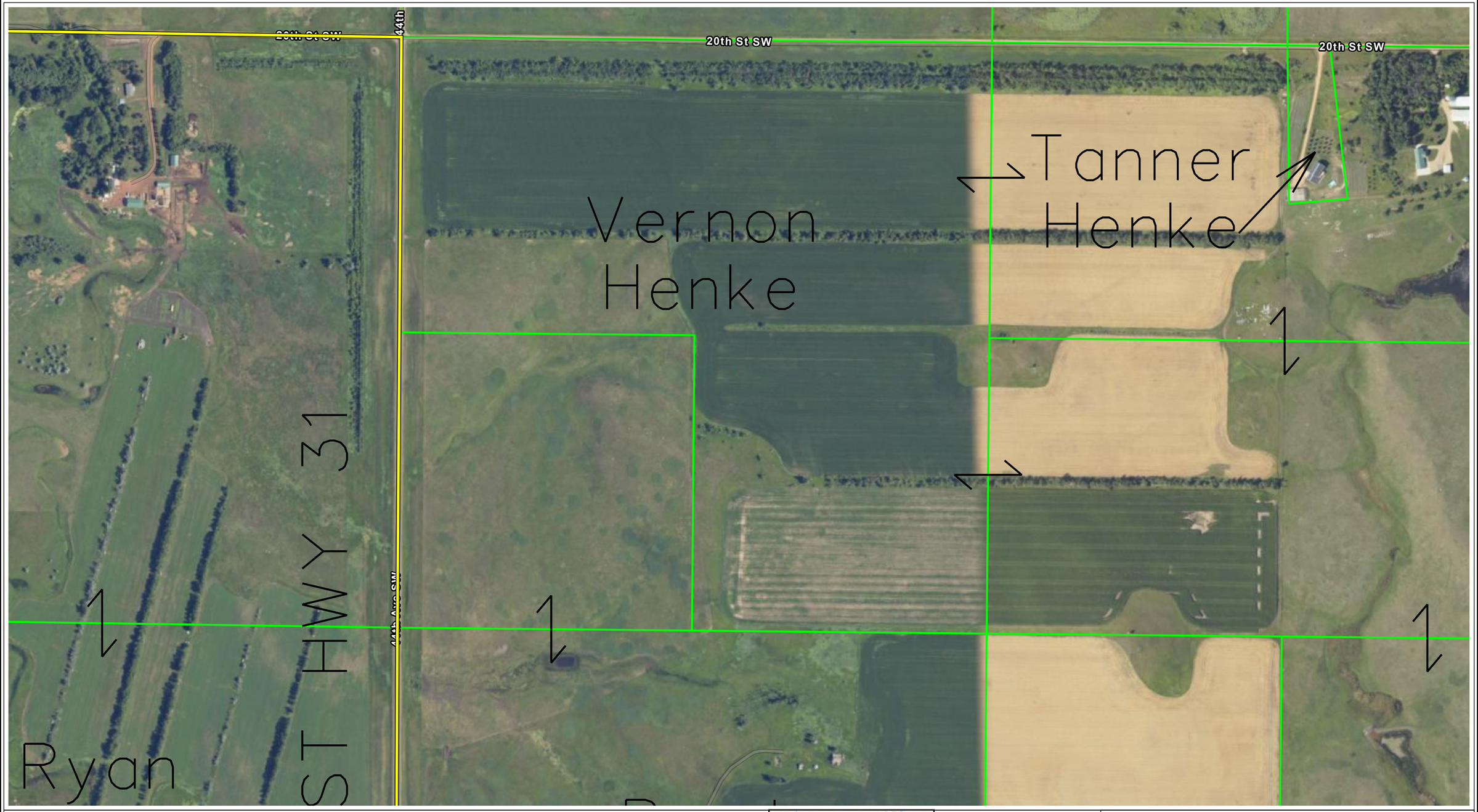
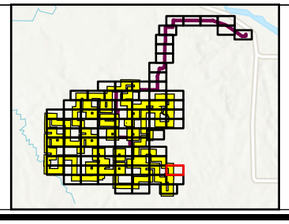
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 79 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)



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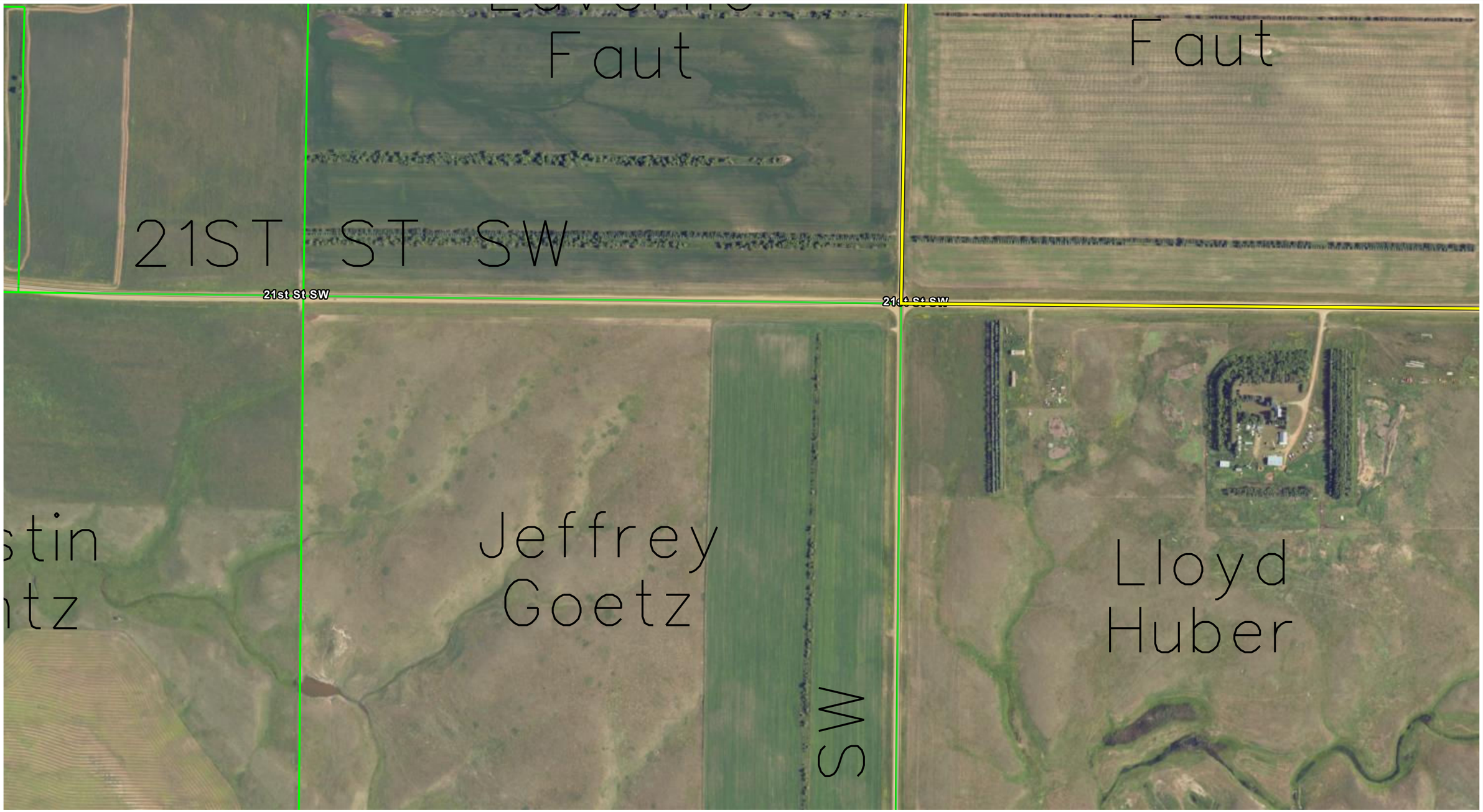
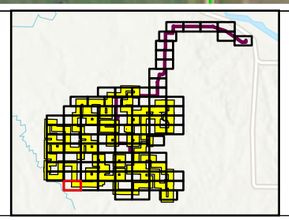
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 80 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)



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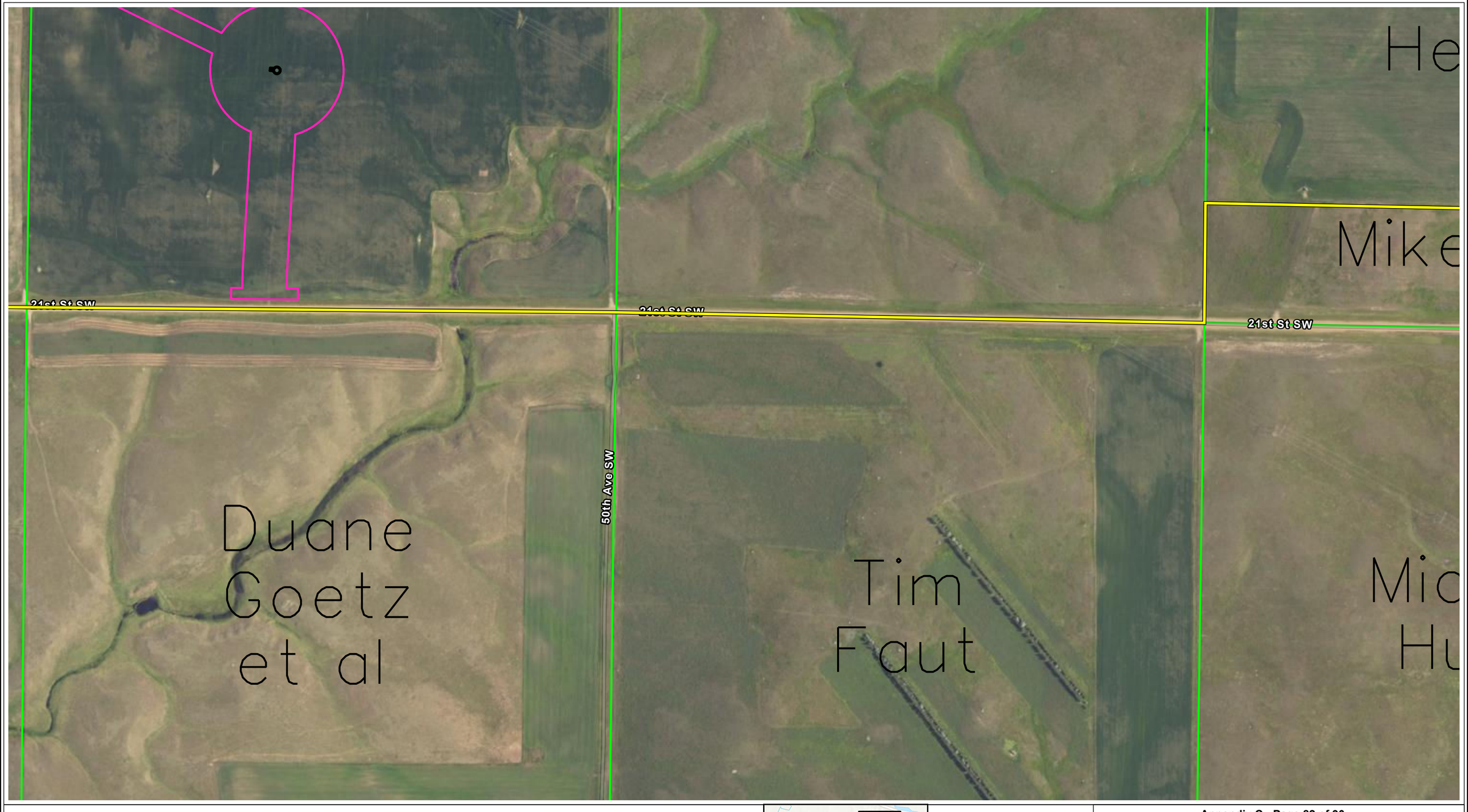
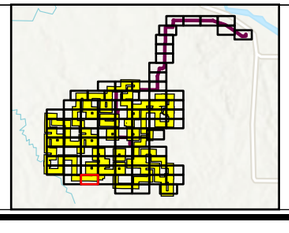
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 81 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 82 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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Mark
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21ST ST SW

21st St SW

49th Ave SW

21st St SW

Ed
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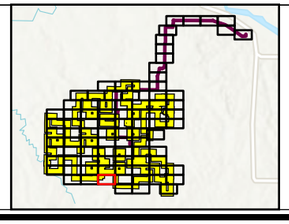
Project Area (± 24,677.20 Ac.)



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 83 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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Kelly
Hintz

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Blaine

21st St SW

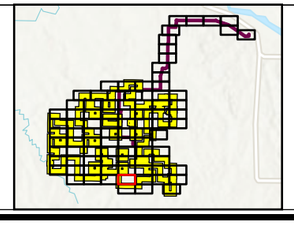
21st St SW

21st St SW

47th Ave SW

47th Ave SW

Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 84 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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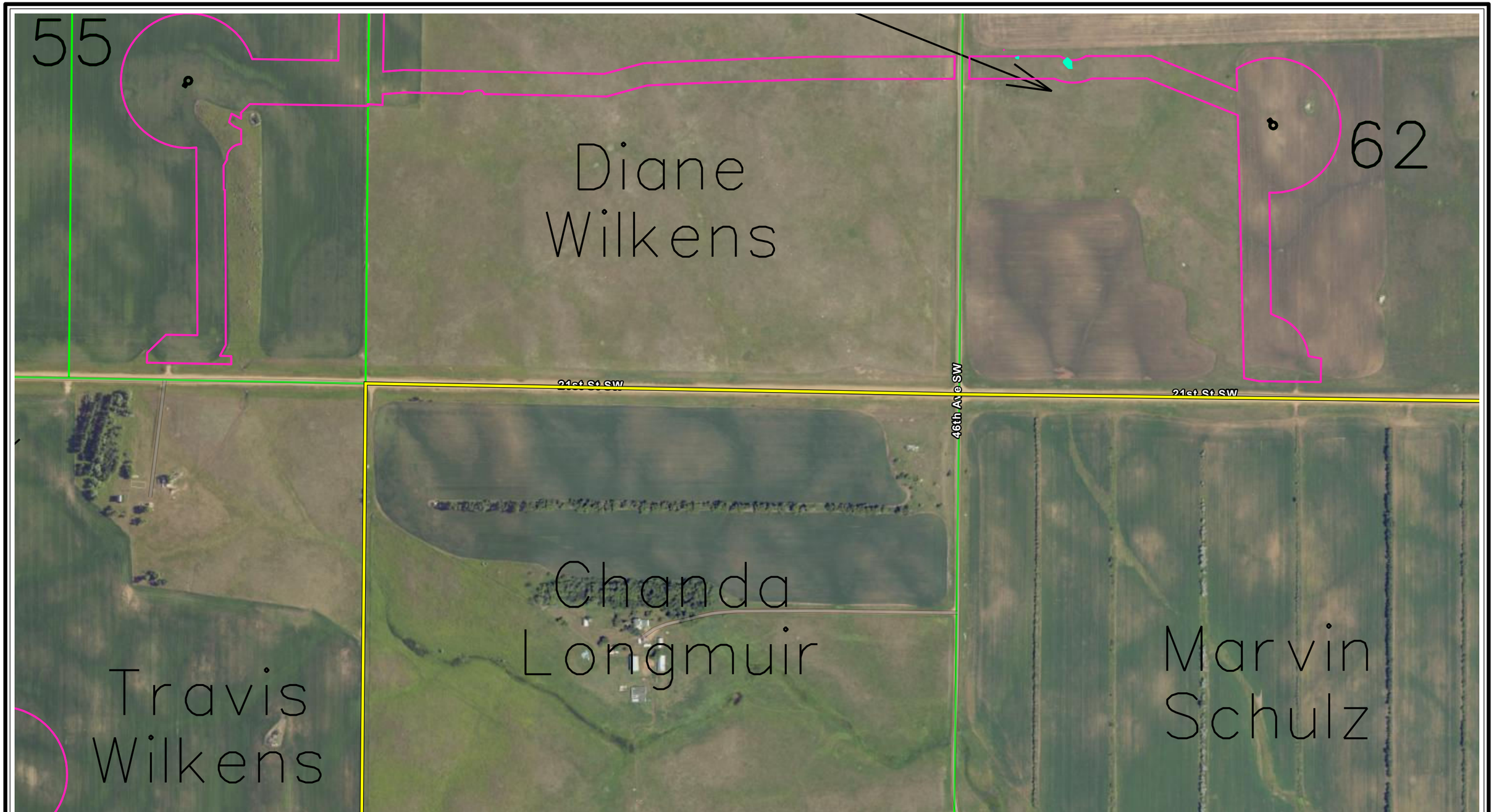
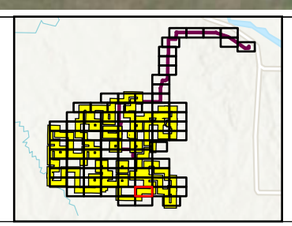


Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement
Tree or Shrub Removed



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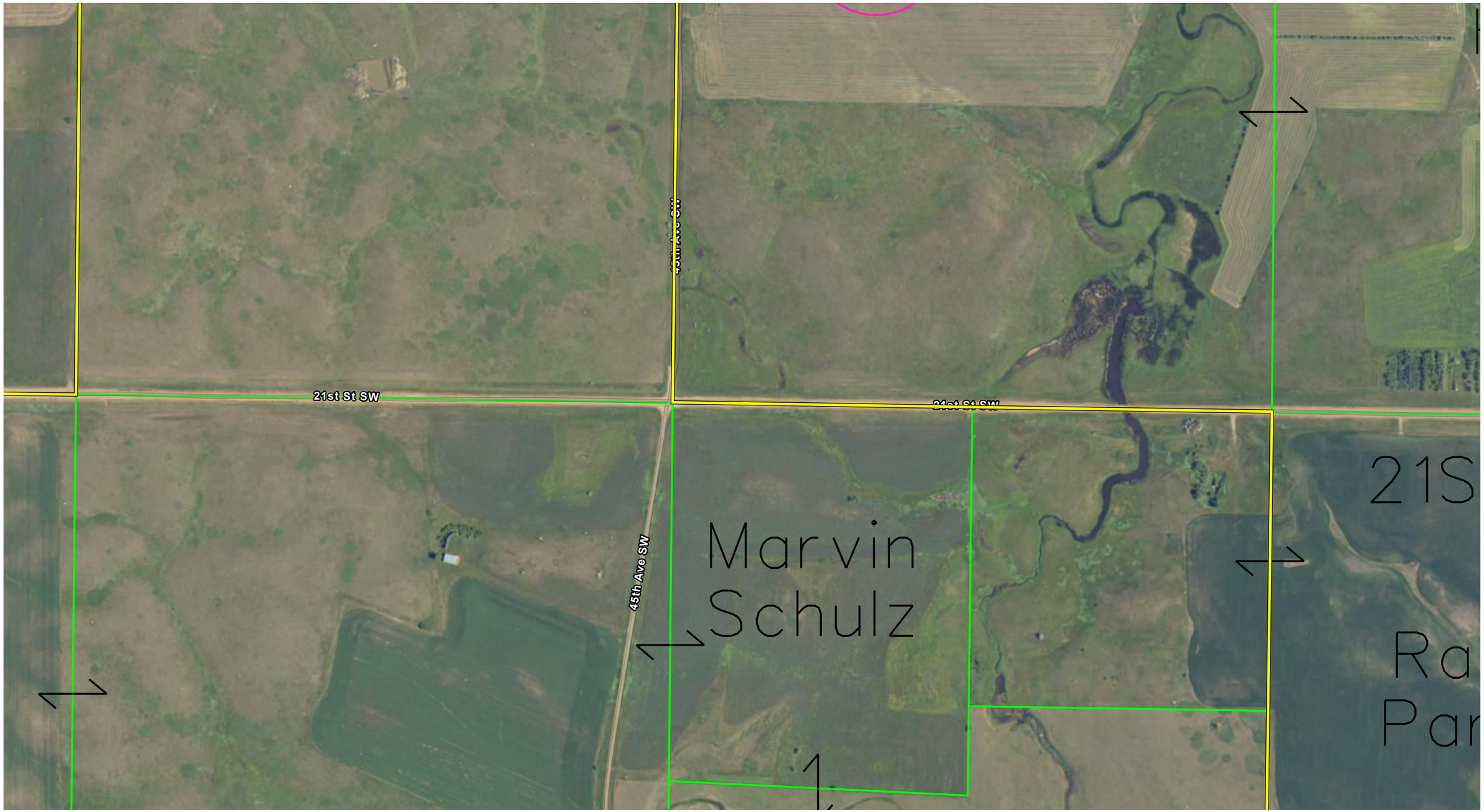
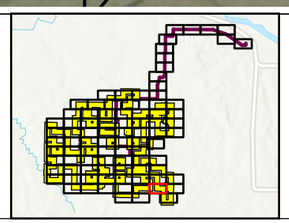
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 85 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Construction Easement



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 86 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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Henke

Randy
Henke

Saint
Peter's
Lutheran
Church

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21st St SW

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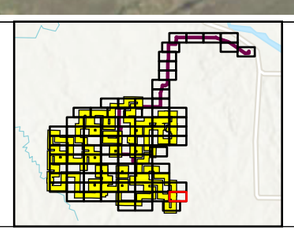
Leslie
Henke

Project Area (± 24,677.20 Ac.)



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 87 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
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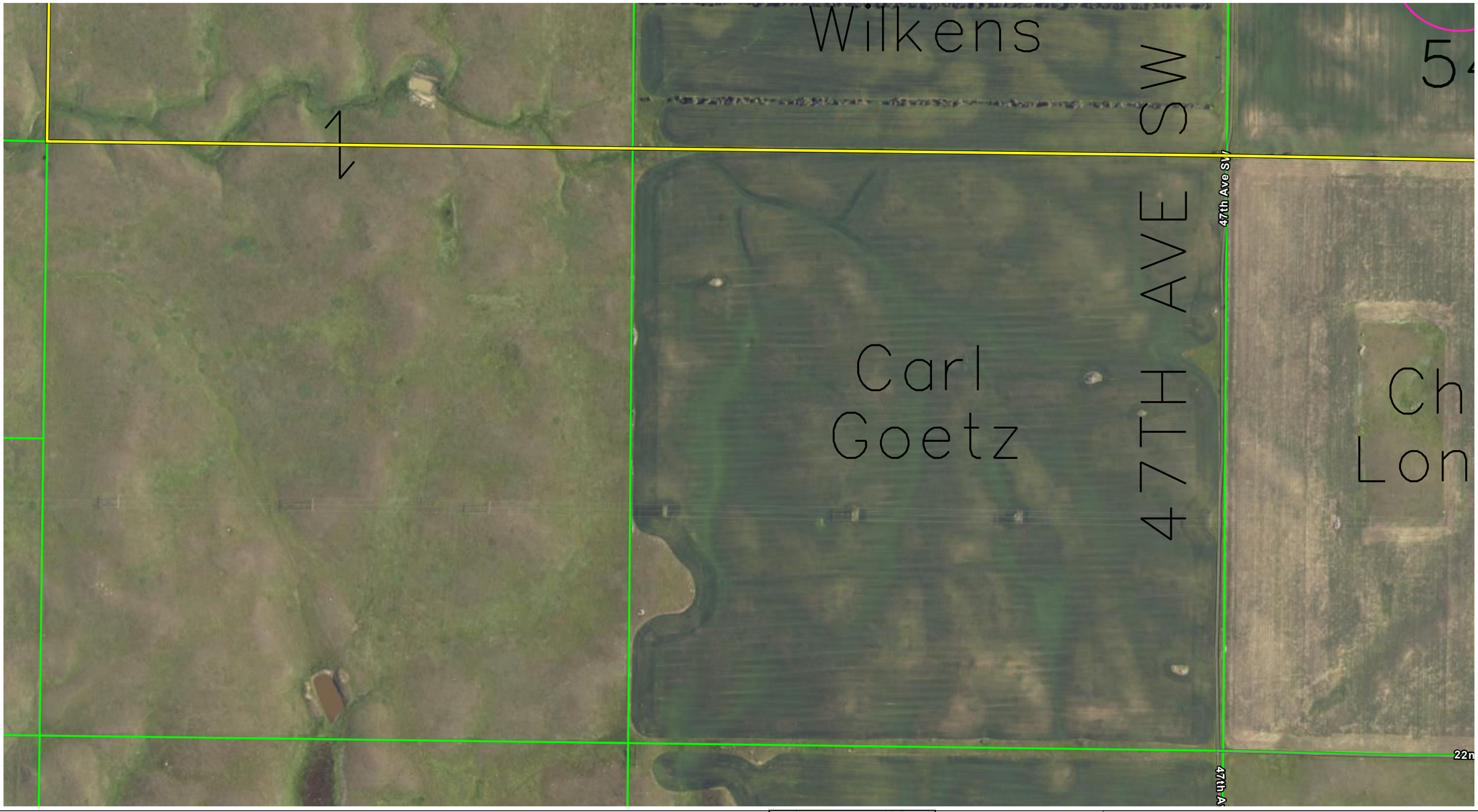
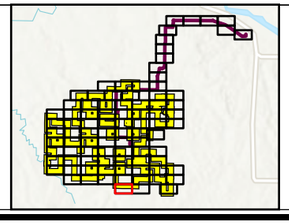
ECT



Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 88 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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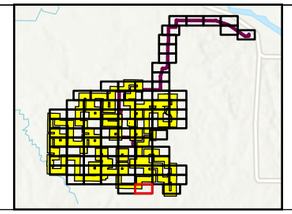
Project Area (± 24,677.20 Ac.)
Turbine
Construction Easement



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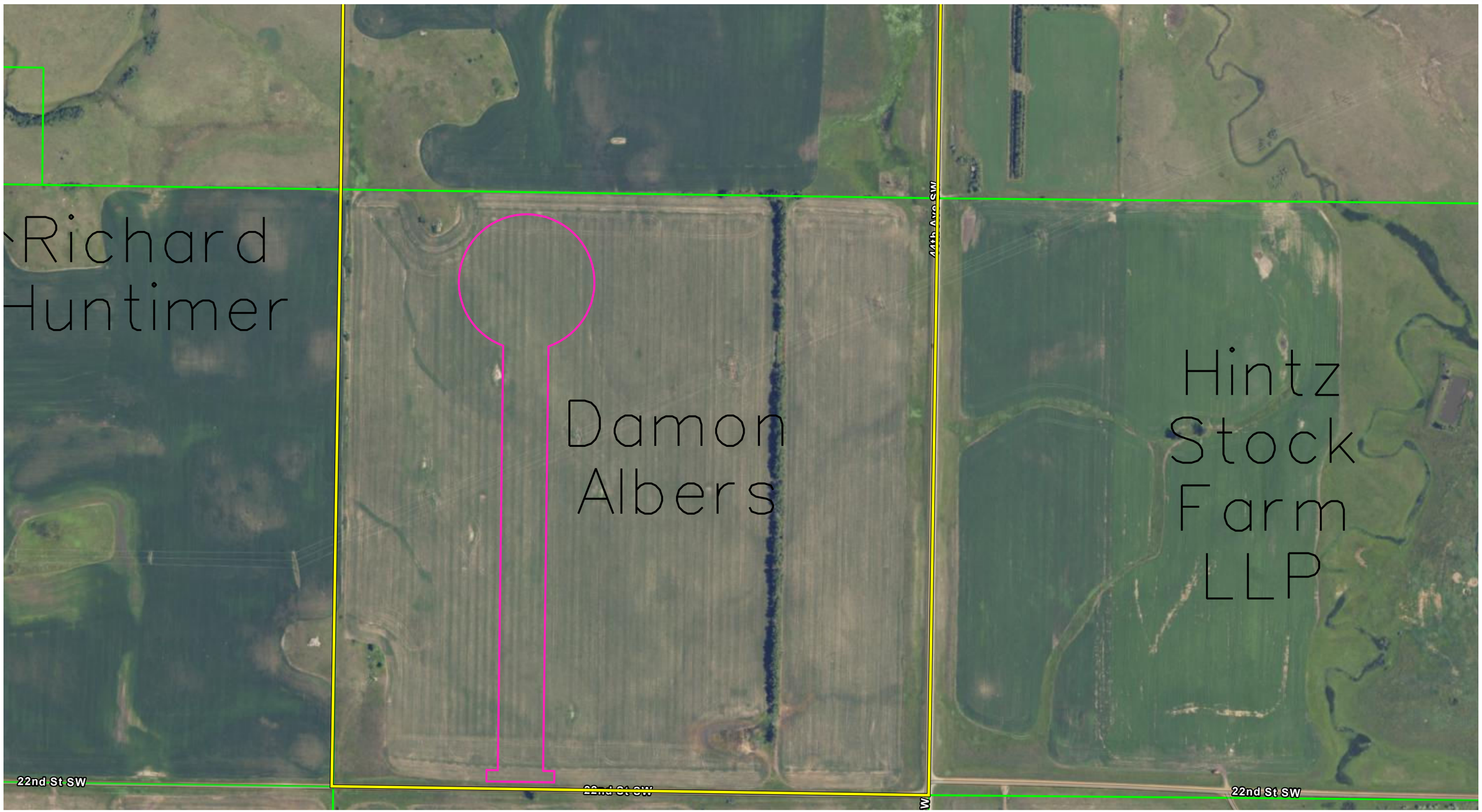
Feet

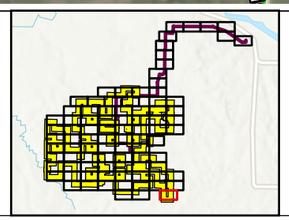
Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 89 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

ECT



Project Area (± 24,677.20 Ac.)
Construction Easement



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Base Layer: NAIP Aerial Imagery 2023

Appendix C - Page 90 of 90
Removed Trees and Shrubs Map
Tree and Shrub Mitigation Plan
Next Era Energy Resources, LLC
Oliver Wind IV
Oliver & Mercer counties, North Dakota
Date: 4/17/2025

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APPENDIX D: REMOVED TREE AND SHRUB INVENTORY

Latitude	Longitude	Count		Total removed	Common name	Scientific name	Project
		Pre	Post				
47.1622618637	-101.532940482	40	38	2	Common lilac	*Syringa vulgaris*	Wind Energy Center
47.1622618637	-101.532940482	29	28	1	Golden currant	*Ribes aureum*	Wind Energy Center
47.1622618637	-101.532940482	28	26	2	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1622618637	-101.532940482	17	16	1	Eastern red-cedar	*Juniperus virginiana*	Wind Energy Center
47.1622618637	-101.532940482	12	11	1	White fir	*Abies concolor*	Wind Energy Center
47.1624249103	-101.537344219	3	2	1	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1639758260	-101.505623995	2	1	1	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1776852376	-101.511363750	1	0	1	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1774836998	-101.511656087	1	0	1	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1691333796	-101.548473336	7	1	6	American plum	*Prunus americana*	Wind Energy Center
47.1731462991	-101.549927911	9	0	9	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1730788905	-101.549670539	2	0	2	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1729021715	-101.549610849	1	0	1	Arnold Hawthorn	*Crataegus arnoldiana*	Wind Energy Center
47.1729021715	-101.549610849	6	0	6	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1858524774	-101.466237270	1	0	1	Golden currant	*Ribes aureum*	Wind Energy Center
47.1690996497	-101.548467071	4	1	3	American plum	*Prunus americana*	Wind Energy Center
47.1688009563	-101.553608338	1	0	1	Arnold Hawthorn	*Crataegus arnoldiana*	Wind Energy Center
47.1690637509	-101.554788344	18	7	11	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1690679787	-101.555581925	16	6	10	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1691083625	-101.555831304	3	0	3	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1232610521	-101.571831467	66	65	1	Colorado blue spruce	*Picea pungens*	Wind Energy Center
47.1924226593	-101.553197165	158	153	5	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1907787126	-101.550954708	46	39	7	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1921276984	-101.548900293	188	11	77	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1691804296	-101.554374326	7	6	1	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1709637044	-101.556066837	122	120	2	Eastern red-cedar	*Juniperus virginiana*	Wind Energy Center
47.1732794081	-101.556015237	48	46	2	Eastern red-cedar	*Juniperus virginiana*	Wind Energy Center
47.1732794081	-101.556015237	36	34	2	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1731103935	-101.556212742	2	0	2	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1731103935	-101.556212742	2	1	1	Eastern red-cedar	*Juniperus virginiana*	Wind Energy Center
47.1733721998	-101.557053036	4	0	4	Arnold Hawthorn	*Crataegus arnoldiana*	Wind Energy Center
47.1728934853	-101.557432159	44	6	38	Siberian elm	*Ulmus pumila*	Wind Energy Center

Latitude	Longitude	Count		Total removed	Common name	Scientific name	Project
		Pre	Post				
47.1728934853	-101.557432159	2	0	2	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1729597121	-101.554617013	25	23	2	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1729597121	-101.554617013	6	5	1	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1773320203	-101.532994928	16	13	3	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1773320203	-101.532994928	10	8	2	Eastern red-cedar	*Juniperus virginiana*	Wind Energy Center
47.1773320203	-101.532994928	6	4	2	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1794458770	-101.538373061	1	0	1	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1833032020	-101.539216864	47	42	5	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1833032020	-101.539216864	21	15	6	Eastern red-cedar	*Juniperus virginiana*	Wind Energy Center
47.1817463266	-101.539388020	133	127	6	Eastern red-cedar	*Juniperus virginiana*	Wind Energy Center
47.1817463266	-101.539388020	107	95	12	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1817463266	-101.539388020	22	10	12	Common lilac	*Syringa vulgaris*	Wind Energy Center
47.1788223923	-101.538677951	12	0	12	Eastern red-cedar	*Juniperus virginiana*	Wind Energy Center
47.1788223923	-101.538677951	10	0	10	Unknown	*NA*	Wind Energy Center
47.1771371244	-101.539023027	14	0	14	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1360190837	-101.484066866	2	1	1	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1154610844	-101.467663397	10	0	10	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1154018132	-101.466756174	49	0	49	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1230851997	-101.534309141	36	35	1	Colorado blue spruce	*Picea pungens*	Wind Energy Center
47.1166139798	-101.444942860	197	102	95	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1188625047	-101.442774381	208	155	53	Russian-olive	*Elaegnus angustifolia*	Wind Energy Center
47.1480309139	-101.613245226	217	210	7	Silver buffaloberry	*Shepherdia argentea*	Wind Energy Center
47.2864053313	-101.392536012	58	56	2	Green ash	*Fraxinus pennsylvanica*	Wind Energy Center
47.1239253610	-101.611696992	83	81	2	Russian-olive	*Elaegnus angustifolia*	Wind Energy Center
47.1234811471	-101.612184767	22	20	2	Green ash	*Fraxinus pennsylvanica*	Wind Energy Center
47.1469162601	-101.534166228	1	0	1	American plum	*Prunus americana*	Wind Energy Center
47.1845086603	-101.469008099	34	0	34	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1470446198	-101.616279974	19	17	2	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1471767396	-101.611961473	64	60	4	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1471767396	-101.611961473	11	10	1	Green ash	*Fraxinus pennsylvanica*	Wind Energy Center
47.1907008087	-101.549146541	10	7	3	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1888056701	-101.549201732	16	13	3	Siberian elm	*Ulmus pumila*	Wind Energy Center

Latitude	Longitude	Count		Total removed	Common name	Scientific name	Project
		Pre	Post				
47.1294892542	-101.608882975	15	6	9	Green ash	*Fraxinus pennsylvanica*	Wind Energy Center
47.1294892542	-101.608882975	14	5	9	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1083528987	-101.493366810	225	202	23	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1083528987	-101.493366810	12	10	2	Common lilac	*Syringa vulgaris*	Wind Energy Center
47.1095425854	-101.492125818	4	3	1	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1132348292	-101.505386310	179	102	77	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.1132348292	-101.505386310	8	0	8	Chokecherry	*Prunus virginiana*	Wind Energy Center
47.1095097433	-101.495079254	9	8	1	Peashrub	*Caragana* Fabr.	Wind Energy Center
47.1081518112	-101.489974491	3	0	3	Siberian elm	*Ulmus pumila*	Wind Energy Center
47.2781248272	-101.383382735	184	0	184	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2781248272	-101.383382735	75	0	75	Chokecherry	*Prunus virginiana*	Transmission Line
47.2781248272	-101.383382735	38	0	38	American elm	*Ulmus americana*	Transmission Line
47.2781674118	-101.378259435	28	0	28	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2781674118	-101.378259435	26	0	26	Chokecherry	*Prunus virginiana*	Transmission Line
47.2781674118	-101.378259435	13	0	13	Arnold Hawthorn	*Crataegus arnoldiana*	Transmission Line
47.2782338439	-101.379481161	12	0	12	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2783219089	-101.379785369	14	0	14	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2783219089	-101.379785369	10	0	10	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2781405210	-101.381429337	195	35	160	Silverberry	*Elaegnus commutata*	Transmission Line
47.2781405210	-101.381429337	26	0	26	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2782527845	-101.366553410	113	0	113	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2782527845	-101.366553410	4	0	4	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2782033599	-101.365463828	89	0	89	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2782033599	-101.365463828	2	0	2	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2782033599	-101.365463828	1	0	1	American elm	*Ulmus americana*	Transmission Line
47.2785682565	-101.364529264	88	0	88	Silverberry	*Elaegnus commutata*	Transmission Line
47.2785682565	-101.364529264	18	0	18	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2785682565	-101.364529264	9	0	9	Chokecherry	*Prunus virginiana*	Transmission Line
47.2782614286	-101.364200354	25	0	25	Chokecherry	*Prunus virginiana*	Transmission Line
47.2782614286	-101.364200354	4	0	4	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780301183	-101.364170434	97	0	97	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2780301183	-101.364170434	56	0	56	Chokecherry	*Prunus virginiana*	Transmission Line

Latitude	Longitude	Count		Total removed	Common name	Scientific name	Project
		Pre	Post				
47.2780301183	-101.364170434	10	0	10	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2779838106	-101.363658117	60	0	60	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2779838106	-101.363658117	26	0	26	Chokecherry	*Prunus virginiana*	Transmission Line
47.2779838106	-101.363658117	11	0	11	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2802100312	-101.364503037	26	0	26	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2801157658	-101.365383078	55	0	55	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.1577785562	-101.547180945	18	0	18	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.1577785562	-101.547180945	2	0	2	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.1577785562	-101.547180945	1	0	1	American elm	*Ulmus americana*	Transmission Line
47.2790305005	-101.381393209	62	50	12	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2790305005	-101.381393209	23	0	23	Chokecherry	*Prunus virginiana*	Transmission Line
47.2790305005	-101.381393209	5	0	5	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780208891	-101.379519802	4	0	4	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2783082792	-101.380810994	1	0	1	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2782194110	-101.371695404	1	0	1	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2781379483	-101.364312331	1	0	1	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780169328	-101.371262815	1	0	1	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2676950040	-101.330794243	13	0	13	Chokecherry	*Prunus virginiana*	Transmission Line
47.2679816574	-101.332152202	58	50	8	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2679816574	-101.332152202	16	0	16	Chokecherry	*Prunus virginiana*	Transmission Line
47.2679816574	-101.332152202	4	0	4	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2680463196	-101.331353560	13	0	13	Chokecherry	*Prunus virginiana*	Transmission Line
47.2636438346	-101.323266733	149	35	114	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2636438346	-101.323266733	20	0	20	Eastern cottonwood	*Populus deltoides*	Transmission Line
47.2636438346	-101.323266733	13	0	13	Chokecherry	*Prunus virginiana*	Transmission Line
47.2636438346	-101.323266733	11	0	11	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2636438346	-101.323266733	8	0	8	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2636438346	-101.323266733	3	0	3	Eastern red-cedar	*Juniperus virginiana*	Transmission Line
47.2641031844	-101.322935243	3	0	3	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2641031844	-101.322935243	1	0	1	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2747364304	-101.348849087	128	28	100	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2747364304	-101.348849087	7	0	7	Green ash	*Fraxinus pennsylvanica*	Transmission Line

Latitude	Longitude	Count		Total removed	Common name	Scientific name	Project
		Pre	Post				
47.2747364304	-101.348849087	2	0	2	Red osier dogwood	*Cornus sericea*	Transmission Line
47.2750063063	-101.349464230	88	15	73	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2750063063	-101.349464230	12	2	10	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2750063063	-101.349464230	12	0	12	Chokecherry	*Prunus virginiana*	Transmission Line
47.2748831114	-101.349598433	23	0	23	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2749805797	-101.350299506	5	0	5	American elm	*Ulmus americana*	Transmission Line
47.2752118705	-101.350247261	2	0	2	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2755020954	-101.351773862	20	0	20	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2780744809	-101.404488384	9	0	9	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780311130	-101.405243933	41	0	41	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780311130	-101.405243933	2	0	2	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2781205653	-101.391680389	84	0	84	Chokecherry	*Prunus virginiana*	Transmission Line
47.2781205653	-101.391680389	48	0	48	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2781205653	-101.391680389	24	0	24	American elm	*Ulmus americana*	Transmission Line
47.2781205653	-101.391680389	19	0	19	Arnold Hawthorn	*Crataegus arnoldiana*	Transmission Line
47.2779461031	-101.390885894	9	0	9	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2781082014	-101.390586536	76	0	76	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2781082014	-101.390586536	42	0	42	American elm	*Ulmus americana*	Transmission Line
47.2781082014	-101.390586536	29	0	29	Chokecherry	*Prunus virginiana*	Transmission Line
47.2782656654	-101.389209571	25	0	25	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2779998587	-101.387614570	56	25	30	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2779998587	-101.387614570	2	1	1	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2779781544	-101.386910192	66	59	7	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2782189063	-101.386388346	44	0	44	Chokecherry	*Prunus virginiana*	Transmission Line
47.2782189063	-101.386388346	33	0	33	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2782189063	-101.386388346	3	0	3	American elm	*Ulmus americana*	Transmission Line
47.2782971785	-101.385559054	27	0	27	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2782971785	-101.385559054	24	0	24	Chokecherry	*Prunus virginiana*	Transmission Line
47.2782971785	-101.385559054	12	0	12	American elm	*Ulmus americana*	Transmission Line
47.2780052179	-101.385290875	67	9	58	Chokecherry	*Prunus virginiana*	Transmission Line
47.2780052179	-101.385290875	36	0	36	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2868291023	-101.382966289	19	0	19	Silver buffaloberry	*Shepherdia argentea*	Transmission Line

Latitude	Longitude	Count		Total removed	Common name	Scientific name	Project
		Pre	Post				
47.2864442029	-101.381809367	28	0	28	Silverberry	*Elaegnus commutata*	Transmission Line
47.2864442029	-101.381809367	1	0	1	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2863712217	-101.381403449	15	0	15	Silverberry	*Elaegnus commutata*	Transmission Line
47.2783515216	-101.391017705	58	0	58	Silverberry	*Elaegnus commutata*	Transmission Line
47.2783515216	-101.391017705	7	0	7	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2691800257	-101.334714169	1	0	1	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2703316560	-101.337020911	3	0	3	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2676737962	-101.331355504	1	0	1	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2686753558	-101.332915456	1	0	1	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2639383953	-101.323090687	2	0	2	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2750903335	-101.350233560	1	0	1	American elm	*Ulmus americana*	Transmission Line
47.2781899675	-101.404287366	1	0	1	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780112781	-101.404885746	1	0	1	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780786506	-101.404952795	1	0	1	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780623675	-101.405006271	1	0	1	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780891250	-101.387217657	1	0	1	American elm	*Ulmus americana*	Transmission Line
47.2782830926	-101.389822779	4	0	4	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2807985994	-101.391197211	6	0	6	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2806763535	-101.390813710	2	0	2	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2802814418	-101.390424558	5	0	5	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2803019425	-101.390411423	1	0	1	Eastern red-cedar	*Juniperus virginiana*	Transmission Line
47.2865548681	-101.381992739	1	0	1	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.1697744836	-101.509843185	40	0	40	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.1692623959	-101.509866924	2	0	2	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.1717452621	-101.509327002	25	0	25	Ironwood	*Ostrya virginiana*	Transmission Line
47.1717452621	-101.509327002	3	0	3	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.1717452621	-101.509327002	2	0	2	Eastern cottonwood	*Populus deltoides*	Transmission Line
47.1709792035	-101.509125098	20	1	19	Eastern red-cedar	*Juniperus virginiana*	Transmission Line
47.1720360744	-101.508907056	1	0	1	Eastern cottonwood	*Populus deltoides*	Transmission Line
47.2619210252	-101.316896594	8	0	8	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2782278755	-101.405559413	4	0	4	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780916570	-101.406207264	350	0	350	Chokecherry	*Prunus virginiana*	Transmission Line

Latitude	Longitude	Count		Total removed	Common name	Scientific name	Project
		Pre	Post				
47.2780916570	-101.406207264	65	0	65	Quaking aspen	*Populus tremuloides*	Transmission Line
47.2780916570	-101.406207264	31	0	31	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2780916570	-101.406207264	18	0	18	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2780916570	-101.406207264	13	0	13	White poplar	*Populus alba*	Transmission Line
47.2780916570	-101.406207264	7	0	7	American elm	*Ulmus americana*	Transmission Line
47.2780916570	-101.406207264	1	0	1	Rocky mountain juniper	*Juniperus scopulorum*	Transmission Line
47.2781248331	-101.412226448	10	0	10	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2779112917	-101.412377690	10	0	10	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2779632476	-101.419891721	166	0	166	Chokecherry	*Prunus virginiana*	Transmission Line
47.2779632476	-101.419891721	42	0	42	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2779632476	-101.419891721	25	0	25	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2779632476	-101.419891721	8	0	8	American elm	*Ulmus americana*	Transmission Line
47.2779632476	-101.419891721	5	0	5	Common hackberry	*Celtis occidentalis*	Transmission Line
47.2779632476	-101.419891721	5	0	5	Unknown	NA	Transmission Line
47.2779632476	-101.419891721	1	0	1	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2052086743	-101.461194571	15	0	15	Chokecherry	*Prunus virginiana*	Transmission Line
47.2052182418	-101.490840918	19	0	19	Chokecherry	*Prunus virginiana*	Transmission Line
47.2051801238	-101.471925408	15	0	15	Chokecherry	*Prunus virginiana*	Transmission Line
47.2051801238	-101.471925408	15	0	15	Tartatian honeysuckle	*Lonicera tatarica*	Transmission Line
47.2048368789	-101.473777296	45	0	45	Arnold hawthorn	*Crataegus arnoldiana*	Transmission Line
47.2049557784	-101.473418659	58	0	58	Arnold hawthorn	*Crataegus arnoldiana*	Transmission Line
47.2048215755	-101.473557131	1	0	1	American elm	*Ulmus americana*	Transmission Line
47.2048480886	-101.473466144	2	0	2	Arnold hawthorn	*Crataegus arnoldiana*	Transmission Line
47.2049156857	-101.473527604	1	0	1	Arnold hawthorn	*Crataegus arnoldiana*	Transmission Line
47.2050272501	-101.499608886	12	0	12	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2050272501	-101.499608886	1	0	1	Eastern cottonwood	*Populus deltoides*	Transmission Line
47.189858000	-101.511653000	1	0	1	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.1936504665	-101.511719263	38	2	36	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.1993546341	-101.511895395	19	0	19	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2778511048	-101.363300604	160	0	160	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2778511048	-101.363300604	70	0	70	Chokecherry	*Prunus virginiana*	Transmission Line
47.2778511048	-101.363300604	29	0	29	Green ash	*Fraxinus pennsylvanica*	Transmission Line

Latitude	Longitude	Count		Total removed	Common name	Scientific name	Project
		Pre	Post				
47.2777989714	-101.362851962	87	0	87	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2777989714	-101.362851962	28	0	28	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2776744771	-101.361505229	14	0	14	Sandbar willow	*Salix exigua*	Transmission Line
47.2776744771	-101.361505229	1	0	1	Bebbs willow	*Salix bebbiana*	Transmission Line
47.2773106589	-101.361396755	14	0	14	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2773106589	-101.361396755	6	1	5	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2771427141	-101.360156776	8	0	8	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2770179897	-101.359118296	125	0	125	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2770179897	-101.359118296	75	0	75	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2770179897	-101.359118296	46	0	46	Chokecherry	*Prunus virginiana*	Transmission Line
47.2770123289	-101.358452592	13	0	13	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2770113899	-101.358236996	1	0	1	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2767110886	-101.357099004	92	0	92	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2767110886	-101.357099004	25	0	25	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2767110886	-101.357099004	17	0	17	Chokecherry	*Prunus virginiana*	Transmission Line
47.2764137431	-101.356070265	68	0	68	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2764137431	-101.356070265	42	0	42	Green ash	*Fraxinus pennsylvanica*	Transmission Line
47.2764137431	-101.356070265	12	0	12	Chokecherry	*Prunus virginiana*	Transmission Line
47.2759404811	-101.355324245	55	0	55	Chokecherry	*Prunus virginiana*	Transmission Line
47.2759404811	-101.355324245	25	0	25	Silverberry	*Elaegnus commutata*	Transmission Line
47.2759404811	-101.355324245	16	0	16	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2761634872	-101.354745342	2	0	2	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2761634872	-101.354745342	1	0	1	Russian-olive	*Elaegnus angustifolia*	Transmission Line
47.2778647439	-101.362349422	3	0	3	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
47.2799902104	-101.363231733	13	0	13	Silver buffaloberry	*Shepherdia argentea*	Transmission Line
TOTAL		**7998**	**2376**	**5521**			

APPENDIX E: WAIVERS

WAIVER AND REFUSAL

Upon execution of this form I/We, GREAT RIVER ENERGY, hereby exercise my/our right to **waive and refuse** my/our option to have the trees and shrubs on my/our property (described below) and on my/our right-of-way replaced pursuant to *North Dakota Public Service Commission Order, Case No. PU-23-317, Exhibit 13* and *Case No. PU-23-318, Exhibit 14*. Instead, I/we opt to have the replacement trees and shrubs planted off my/our property and right-of-way. The referenced *North Dakota Public Service Commission Order* is attached to this Waiver and Refusal.

I/We acknowledge that I/we fully understand the terms set forth in this form, and I/we hereby waive and refuse the replacement of the trees and shrubs as described in the preceding paragraph freely and voluntarily, without any inducement, assurance, or guarantee being fully made to me allowed by law.

Property Owner(s) Legal Name(s) (*Print*)

GREAT RIVER ENERGY

Address of Property in Question

PIN 01144840020800

Daniel Cash
Signature(s)

4/8/2025
Date

Witness

4/8/2025
Date

APPENDIX F: PLANTING PLANS

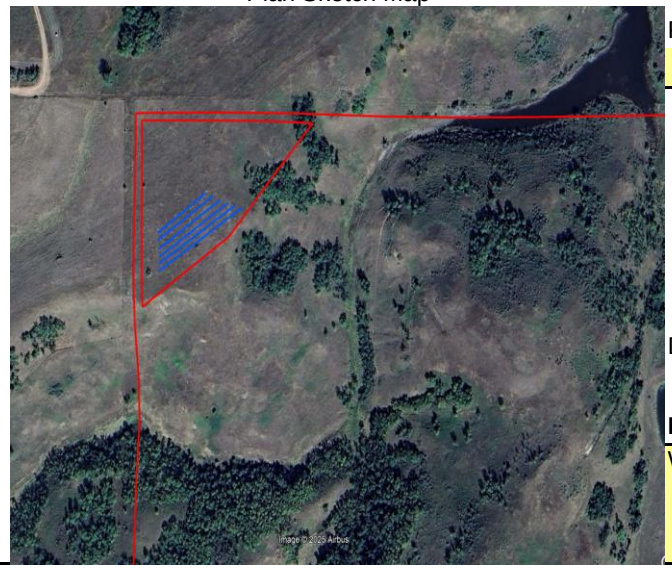
ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N



Quarter: NW 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Lihen fine sandy loam, 0 to 6% slopes

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: ond located on northern p feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	300		17.5	0.12	1	Pine, Ponderosa			10		30		suitable	
	275				2	Pine, Ponderosa			10		28		suitable	
	250				3	Pine, Ponderosa			10		25		suitable	
	225				4	Pine, Ponderosa			10		23		suitable	
	200				5	Pine, Ponderosa			10		20		suitable	
	175				6	Pine, Ponderosa			10		18		suitable	
1425			17.5	0.12	**Totals**						144			

WEST - TREEPLAN

ND - NRCS — WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: NE 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Cabba-Dadland complex, 6 to 70% slopes

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: NNW of the SE property feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees. Willows are to be located along the west side of the channel in the floodplain flats. Insure matting and tree protectors are anchored well for these trees to avoid being washed away from short flow periods.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
2	90		14	0.03	1	Willow, Sandbar			8		12		NR	
	100				2	Willow, Sandbar			8		13		NR	
190		14	0.03	**Totals**							25			

WEST - TREEPLAN

ND - NRCS **WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET** ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: NE 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): emvik-Wilton-Williams silt lomas 3 to 6% slope

Planned by: ECT Date: 4/18/2025

Approved by: Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: 00 west of transmission l feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Weed matting and tree protectors will be used with all trees. Aspen should be planted 15ft outside dripline of largest tree of existing trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
3	206		14	0.07	1	Dogwood			6		35		suitable	
	223				2	Dogwood			6		38		suitable	
	140				3	Aspen, Quaking			8		18		NR	
	132				4	Aspen, Quaking			8		17		NR	
	150				5	Buffaloberry			6		25		suitable	
	165				6	Buffaloberry			6		28		suitable	
1016		14	0.07	**Totals**							161			

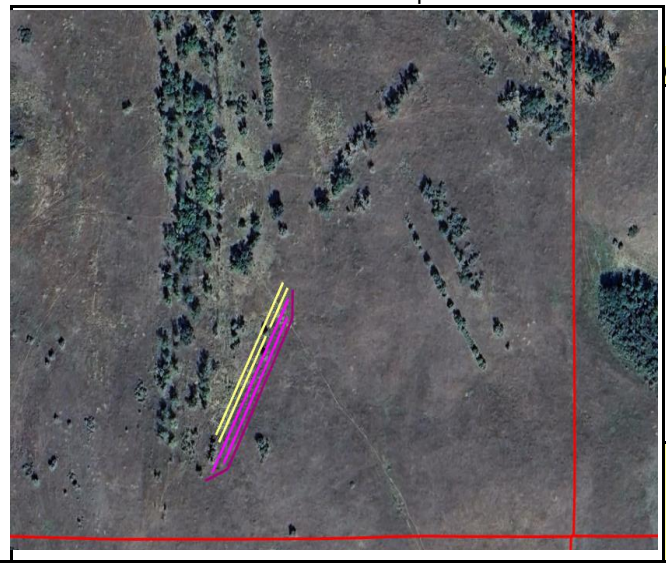
WEST - TREEPLAN

ND - NRCS — WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map



Quarter: NE 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): emvik-Wilton-Williams silt lomas 3 to 6% slope

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: 50 west of transmission l feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
4	266		17.5	0.11	1	Buffaloberry			6		45		suitable	
	250				2	Buffaloberry			6		42		suitable	
	200				3	Poplar, White			10		20		suitable	
	300				4	Poplar, White			10		30		suitable	
	350				5	Plum, American			6		59		suitable	
1366		17.5	0.11	**Totals**							196			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

Quarter: NE 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): emvik-Wilton-Williams silt lomas 3 to 6% slope

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: 30 west of transmission l feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
5	270		17.5	0.11	1	Chokecherry, commc			6		45		suitable	
	270				2	Chokecherry, commo			6		45		suitable	
	328				3	Dogwood			6		55		suitable	
	250				4	Poplar, White			10		25		suitable	
	250				5	Poplar, White			10		25		suitable	
1368		17.5	0.11		**Totals**						195			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: NE 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): emvik-Wilton-Williams silt lomas 3 to 6% slope

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: 00 west of transmission l feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
6	160		14	0.05	1	Buffaloberry			6		27		suitable	
	160				2	Buffaloberry			6		27		suitable	
	160				3	Buffaloberry			6		27		suitable	
	160				4	Buffaloberry			6		27		suitable	
	150				5	Plum, American			6		25		suitable	
	150				6	Plum, American			6		25		suitable	
	132				7	Aspen, Quaking			8		17		NR	
	140				8	Aspen, Quaking			8		18		NR	
1212		14	0.05	**Totals**							193			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Flaxton-Williams comples, 6 to 9% slopes

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: 00 west of transmission l feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
7	150		14	0.05	1	Chokecherry, commc			6		25		suitable	
	142				2	Chokecherry, commo			6		24		suitable	
	127				3	Chokecherry, commo			6		22		suitable	
	240				4	Buffaloberry			6		40		suitable	
	238				5	Buffaloberry			6		40		suitable	
	220				6	Buffaloberry			6		37		suitable	
	72				7	Buffaloberry			6		12		suitable	
1189		14	0.05	**Totals**							200			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: NE 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): emvik-Wilton-Willimas silt loams, 3 to 6% slope

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 3

Select MLRA: 54

Type of Planting: New

Landuse: Field

Program: None

Site Preparation: Fallow

Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: 00 west of transmission l feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
8	250		14	0.08	1	Buffaloberry			6		42		suitable	
	235				2	Buffaloberry			6		40		suitable	
	225				3	Buffaloberry			6		38		suitable	
	216				4	Dogwood			6		36		suitable	
	216				5	Dogwood			6		36		suitable	
1142		14	0.08	**Totals**							192			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): laxton-Livona fine sandy loams, 3 to 6% slope

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 6 feet

Distance from Windward row to roads or bldgs.: ~300 west of stock pond feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
9	140		13	0.04	1	Chokecherry, commc			6		24		suitable	
	150				2	Chokecherry, commo			6		25		suitable	
	150				3	Buffaloberry			6		25		suitable	
	150				4	Buffaloberry			6		25		suitable	
	150				5	Buffaloberry			6		25		suitable	
	150				6	Buffaloberry			6		25		suitable	
	150				7	Buffaloberry			6		25		suitable	
	150				8	Buffaloberry			6		25		suitable	
1190		13	0.04			**Totals**					199			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): laxton-Livona fine sandy loams, 3 to 6% slope

Planned by: ECT Date: 4/18/2025

Approved by: Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 6 feet

Distance from Windward row to roads or bldgs.: ~300 west of stock pond feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
10	240		13	0.07	1	Buffaloberry			6		40		suitable	
	240				2	Buffaloberry			6		40		suitable	
	240				3	Buffaloberry			6		40		suitable	
	240				4	Buffaloberry			6		40		suitable	
	240				5	Buffaloberry			6		40		suitable	
1200		13	0.07	**Totals**							200			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

Quarter: NW 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): laxton-Livona fine sandy loams, 3 to 6% slope

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 6 feet

Distance from Windward row to roads or bldgs.: 50 southwest of stock pc feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
11	194		13	0.06	1	Buffaloberry			6		33		suitable	
	194				2	Buffaloberry			6		33		suitable	
	194				3	Buffaloberry			6		33		suitable	
	185				4	Plum, American			6		31		suitable	
	180				5	Plum, American			6		30		suitable	
	180				6	Plum, American			6		30		suitable	
1127		13	0.06	**Totals**							190			

WEST - TREEPLAN

ND - NRCS **WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET** ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

Quarter: NW 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Flaxton-Williams complex, 6 to 9% slopes

Planned by: ECT Date: 4/18/2025

Approved by: Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 6 feet

Distance from Windward row to roads or bldgs.: 40 north of an access roa feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
12	175		13	0.05	1	Buffaloberry			6		30		suitable	
	175				2	Buffaloberry			6		30		suitable	
	175				3	Buffaloberry			6		30		suitable	
	175				4	Buffaloberry			6		30		suitable	
	175				5	Buffaloberry			6		30		suitable	
	175				6	Buffaloberry			6		30		suitable	
	115				7	Buffaloberry			6		20		suitable	
1165		13	0.05	**Totals**							200			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Toni Aalberg | Address: 3555 Crosslough Trail | Phone #: 612-805-8474 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: NE 1/4 | Section: 19 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): emvik-Wilton-Williams silt loams, 3 to 6% slope

Planned by: ECT | Date: 4/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 6 feet

Distance from Windward row to roads or bldgs.: south of new transmissic feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors will be used with all trees.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
13	108		13	0.03	1	Buffaloberry			6		18		suitable	
	108				2	Buffaloberry			6		18		suitable	
	108				3	Buffaloberry			6		18		suitable	
324		13	0.03	**Totals**							54			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Sandy Bargmann | Address: 530 St. Andres Court | Phone #: 701-880-8893 | Date: 4/17/2025

Plan Sketch Map

N

Quarter: SW 1/4 | Section: 26 | Twnshp: 143N | Range: 86W

Planned Soil Mapunit / name component(s): 6% slopes and Cohagen-Vebar-Parshall fine s

Planned by: ECT Date: 4/17/2025

Approved by: Date:

Conservation Tree & Shrub Group: 6D | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: ~3,173 from 16th St. SW feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by: Date:

Remarks on site prep, conditions and management (Weed Cor

All trees/shrubs will have weed mat and tree protectors. Space between rows #1 and #2 = 6ft. Space between rows #2 through 7 = 8ft. Landowner has requested to minimze use of space needed for trees/shrubs.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	600		14	0.19	1	Buffaloberry			6		100		suitable	
	800				2	Juniper, Rocky Mtn.			8		100		suitable	
	765				3	Pine, Ponderosa			9		85		suitable	
	765				4	Pine, Ponderosa			9		85		suitable	
	780				5	Redcedar, Eastern			9		87		suitable	
	780				6	Redcedar, Eastern			9		87		suitable	
	400				7	Poplar, White			8		50		NR	
	460				8	Cottonwood			8		58		NR	
	335				9	Cottonwood			8		42		NR	
5685		14	0.19	**Totals**							694			

WEST - TREEPLAN

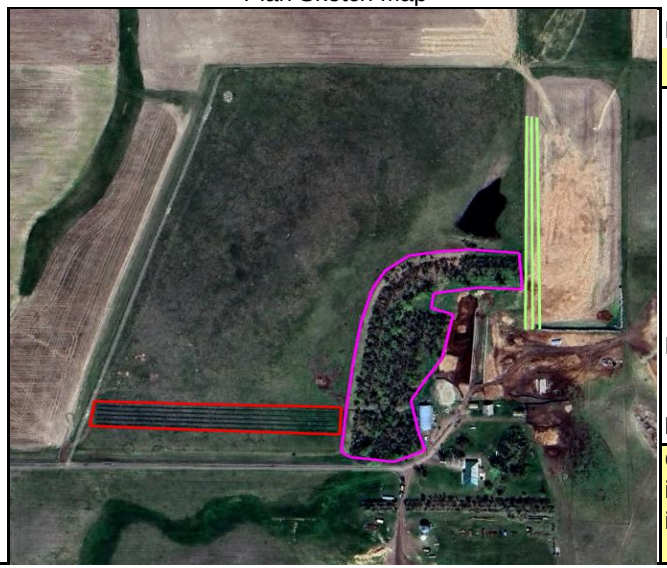
ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Gary Beckman | Address: 1670 North Dakota Highway 31, Hannover ND | Phone #: 701-891-1814 | Date: 4/9/2025

Plan Sketch Map

N



Quarter: S 1/2 | Section: 26 | Twnshp: 143N | Range: 85W

Planned Soil Mapunit / name component(s): loams, 6 to 9 % slopes and Grail-Farland silt l

Planned by: ECT Date: 4/9/2025

Approved by: Date:

Conservation Tree & Shrub Group: 1 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: 30' west of storage build feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by: Date:

Remarks on site prep, conditions and management (Weed Cor

Cottonwoods will be planted north to south east of a water impoundment. The chokecherry shrubs will be intermixed with the existing shrub rows. All trees will include weed matting and tree tubes. Row #5 is filling in the existing tree row with pine and cedars.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	690		17.5	0.28	1	Cottonwood			8		87		suitable	
	690				2	Cottonwood			8		87		suitable	
	690				3	Cottonwood			8		87		suitable	
	300				4	Chokecherry, commo			6		50		suitable	
	850				5	Pine, Ponderosa			10		85		suitable	
	1392				5	Redcedar, Eastern			8		174		suitable	
4612		17.5	0.28	**Totals**							570			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Gordy Boutilier | Address: 530 St. Andres Court | Phone #: 701-880-8893 | Date: 4/16/2025

Plan Sketch Map

N

Quarter: SE 1/4 | Section: 26 | Twnshp: 143N | Range: 86W

Planned Soil Mapunit / name component(s): loam, 2 to6% slope and Williams loam, 6 to 9

Planned by: ECT Date: 4/16/2025

Approved by: Date:

Conservation Tree & Shrub Group: 1 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: ~2,560 from road feet

(Minimum 200' on N & W, and 100' on S & E) Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Do not plant trees in cultivated areas. Trees are planted with weed matting and tree protectors.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	634		14	0.20	1	Redcedar, Eastern			8		80		suitable	
	640				2	Pine, Ponderosa			8		80		suitable	
	288				3	Pine, Ponderosa			8		36		suitable	
	270				3	Redcedar, Eastern			8		34		suitable	
	232				4	Redcedar, Eastern			6		39		suitable	
	100				5	Juniper, Rocky Mtn.			8		13		suitable	
	50				6	Juniper, Rocky Mtn.			8		7		suitable	
	55				7	Aspen, Quaking			6		10		suitable	
	120				8	Chokecherry, commo			6		20		suitable	
	55				9	Plum, American			6		10		suitable	
2444		14	0.20		**Totals**						329			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Val Brunmeier | Address: 1000 HWY 31 | Phone #: 701-880-8434 | Date: 5/11/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 26 | Twnshp: 144N | Range: 85W

Planned Soil Mapunit / name component(s): Werner-Amor-Arnegard loams, 9 to 50% slopes

Planned by: ECT Date: 5/11/2025

Approved by: Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program:

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 10 feet

Distance from Windward row to roads or bldgs.: ~ 200 & ~62 from house feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by: Date:

Remarks on site prep, conditions and management (Weed Cor

Plant rows #1 and 2 along NW side of existing tree generally matching exiting tree row contour. Plant rows #3 and 4 east to west east of the house. All non-cedars will have tree protectors. All trees and shrubs will have weed matting.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	320		15	0.11	1	Pine, Ponderosa			10		32		NR	
	310				2	Pine, Ponderosa			10		31		NR	
	325				3	Redcedar, Eastern			10		33		NR	
	183				4	Redcedar, Eastern			10		19		NR	
1138		15	0.11	**Totals**							115			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Val Brunmeier | Address: 1000 HWY 31 | Phone #: 701-880-8434 | Date: 5/14/2025

Plan Sketch Map

N

Quarter: SW 1/4 | Section: 23 | Twnshp: 144N | Range: 85W

Planned Soil Mapunit / name component(s): Flaxton-Williams comples, 3 to 6% slopes

Planned by: ECT Date: 5/14/2025

Approved by: Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: ~390 west of field pond feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

All trees will have tree protectors. All trees and shrubs will have weed matting. Plot is set up with shrubs around the outside and pondarosa pine in the center. Junipers are planted to bridge between the shrubs and pines.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
2	380		17.5	0.15	1	Buffaloberry			8		48		suitable	
	393				2	Buffaloberry			8		50		suitable	
	366				3	Juniper, Rocky Mtn.			10		37		suitable	
	80				3	Buffaloberry			8		10		suitable	
	381				4	Pine, Ponderosa			10		39		suitable	
	80				4	Buffaloberry			8		10		suitable	
	406				5	Pine, Ponderosa			10		41		suitable	
	80				5	Buffaloberry			8		10		suitable	
	410				6	Pine, Ponderosa			10		41		suitable	
	80				6	Buffaloberry			8		10		suitable	
	406				7	Pine, Ponderosa			10		41		suitable	
	80				7	Buffaloberry			8		10		suitable	
	402				8	Juniper, Rocky Mtn.			10		41		suitable	
	80				8	Buffaloberry			8		10		suitable	
	393				9	Buffaloberry			8		50		suitable	
	354				10	Buffaloberry			8		45		suitable	
	4371		17.5	0.15		**Totals**					493			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Val Brunmeier | Address: 1000 HWY 31 | Phone #: 701-880-8434 | Date: 5/15/2025

Plan Sketch Map

Quarter: SE 1/4 | Section: 23 | Twnshp: 144N | Range: 85W

Planned Soil Mapunit / name component(s): ams, 3 to 6% slopes, Williams-Bowbells loams

Planned by: ECT Date: 5/15/2025

Approved by: Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: 20 east of pond in the fi feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will have tree protectors except for eastern redcedars. All trees and shrubs will have weed matting. Plot is set up with shrubs around the outside. Cottonwood are planted as close as reasonable to the drainage channel on both sides. The chokecherr row is on the west side. Chokecherry on the table is not in order.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
3	250		17.5	0.10	2	Aspen, Quaking			10		25		NR	
	390				2	Plum, American			8		49		suitable	
	250				3	Aspen, Quaking			10		25		NR	
	408				3	Plum, American			8		51		suitable	
	301				4	Redcedar, Eastern			10		31		suitable	
	400				4	Plum, American			8		50		suitable	
	598				5	Redcedar, Eastern			10		60		suitable	
	216				5	Buffaloberry			8		27		suitable	
	650				6	Redcedar, Eastern			10		65		suitable	
	216				6	Buffaloberry			8		27		suitable	
	642				7	Juniper, Rocky Mtn.			10		65		suitable	
	216				7	Buffaloberry			8		27		suitable	
	593				8	Juniper, Rocky Mtn.			10		60		suitable	
	216				8	Buffaloberry			8		27		suitable	
	732				9	Buffaloberry			8		92		suitable	
	200				1	Chokecherry, commo			8		25		suitable	
	6278		17.5	0.10		**Totals**					706			

WEST - TREEPLAN

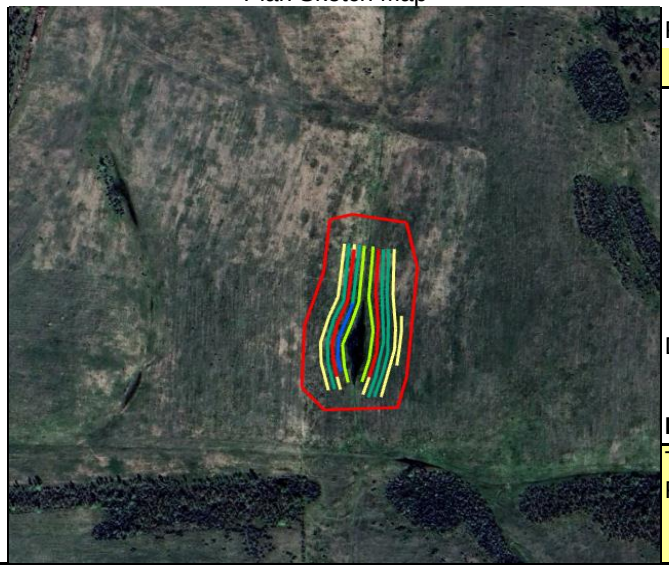
ND - NRCS — WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Val Brunmeier | Address: 1000 HWY 31 | Phone #: 701-880-8434 | Date: 5/15/2025

Plan Sketch Map

N



Quarter: N 1/2 | Section: 23 | Twnshp: 144N | Range: 85W

Planned Soil Mapunit / name component(s): Mined land complex, 0 to 60% slopes

Planned by: ECT | Date: 5/15/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: ~1,649 east of HWY 31 feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Trees will have tree protectors except for eastern redcedars. All trees and shrubs will have weed matting. Plot is set up with shrubs around the outside. Cottonwood located a drainage channel.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
4	533		17.5	0.21	1	Buffaloberry			8		67		NR	
	531				2	Juniper, Rocky Mtn.			10		54		NR	
	64				3	Buffaloberry			8		8		NR	
	460				3	Redcedar, Eastern			10		46		NR	
	211				4	Juniper, Rocky Mtn.			10		22		NR	
	250				4	Pine, Ponderosa			10		25		NR	
	500				5	Cottonwood			10		50		NR	
	500				6	Cottonwood			10		50		NR	
	64				7	Buffaloberry			8		8		NR	
	460				7	Redcedar, Eastern			10		46		NR	
	533				8	Juniper, Rocky Mtn.			10		54		NR	
	531				9	Juniper, Rocky Mtn.			10		54		NR	
	531				10	Buffaloberry			8		67		NR	
	176				11	Buffaloberry			8		22		NR	
	5344		17.5	0.21		**Totals**					573			

WEST - TREEPLAN

ND - NRCS **WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET** ND-CPA-4, Rev. 03-2017

Name: Dwight Burger | Address: 3740 11th St.SW, Stanton, ND | Phone #: 701-794-3508 | Date: 4/17/2025

Plan Sketch Map

N

Quarter: SW 1/4 | Section: 27 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Temvik-Williams loams, 6 to 9% slopes

Planned by: ECT Date: 4/17/2025

Approved by: Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: ~30 north of county road feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by: Date:

Remarks on site prep, conditions and management (Weed Cor

The Pondarosa pine will be delivered to the farmstead to be planted by the landowner around the homestead area. Only trees will be planted with tree protectors. No weed mat for any plants.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	452		14	0.15	1	Buffaloberry			6		76		suitable	
	452				2	Buffaloberry			6		76		suitable	
	92				3	Buffaloberry			6		16		suitable	
	92				3	Buffaloberry			6		16		suitable	
	92				3	Buffaloberry			6		16		suitable	
	80				3	Poplar, White			8		10		suitable	
	80				3	Juniper, Rocky Mtn.			8		10		suitable	
	80				4	Pine, Ponderosa			8		10		suitable	
1420		14	0.15	**Totals**							230			

WEST - TREEPLAN

ND - NRCS — WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Byron Faut | Address: 2063 53rd Ave SW, Hazen, ND | Phone #: 701-748-2788 | Date: 4/16/2025

Plan Sketch Map

Quarter: SE 1/4 | Section: 18 | Twnshp: 142N | Range: 86W

Planned Soil Mapunit / name component(s): Williams-Bowbells loams, 3 to 6% slopes

Planned by: ECT | Date: 4/16/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: NA feet

Distance from Windward row to roads or bldgs.: 100 from eastside of hou feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

The landowner will help with the final location of the trees at the time of plating. All trees will have weed matting but will not have tree protectors. Redcedars are setback from the drive >15 ft.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	11		10	0.00	1	Pine, Ponderosa			10		2		suitable	
	300				2	Redcedar, Eastern			7		43		suitable	
	308				3	Redcedar, Eastern			7		44		suitable	
619		10	0.00	**Totals**							89			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Robert Ford | Address: 2400 Peach Tree Drive | Phone #: 701-870-2964 | Date: 4/18/2025

Plan Sketch Map

N

Quarter: SE 1/4 | Section: 27 | Twnshp: 144N | Range: 85W

Planned Soil Mapunit / name component(s): Flaxton-Williams complex, 3 to 6% slopes

Planned by: ECT | Date: 04/18/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 12 feet

Distance from Windward row to roads or bldgs.: ~150 east of the house feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Weed matting and tree protectors on all plants.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	10		16	0.00	1	Plum, American			6		2		suitable	
	300				2	Redcedar, Eastern			12		25		suitable	
	300				3	Pine, Ponderosa			12		25		suitable	
	300				4	Pine, Ponderosa			12		25		suitable	
910		16	0.00	**Totals**							77			

WEST - TREEPLAN

ND - NRCS — WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Loretta Foss | Address: 3017 Manchester Street, Bismark, ND | Phone #: 701-425-3872 | Date: 4/22/2025

Plan Sketch Map

Quarter: NE 1/4 | Section: 26 | Twnshp: 143N | Range: 86W

Planned Soil Mapunit / name component(s) | Planned by: Ect | Date: 4/22/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 6D | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: No

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E) | Planted by:

Remarks on site prep, conditions and management (Weed Con | Date:

Trees will be planted with no weed matting or tree protectors. Trees will be intermixed in existing tree rows in the field around the turbine. No trees should be planted over buired lines. Final placement of trees has not been determined for planting #2.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	1350		14	0.43		Pine, Ponderosa			10		135		suitable	
	2870					Redcedar, Eastern			10		287		suitable	
2	890		14	0.29		Cottonwood			10		89		NR	
	500					Aspen, Quaking			10		50		NR	
	2000					Juniper, Rocky Mtn.			10		200		suitable	
	250					Willow, Sandbar			10		25		NR	
	9250					Buffaloberry			10		925		suitable	
	250					Poplar, White			10		25		NR	
	250					Dogwood			10		25		NR	
17610			28	0.72		**Totals**					1761			

WEST - TREEPLAN

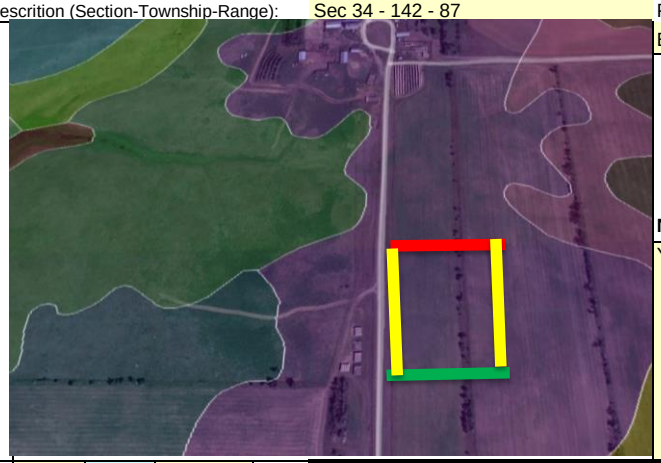
WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET - MLRA 53A, 53B, 54, 58C, 58D

ND-CPA-4C, Rev. 2022

Name: Treavor Hendrickson | Address: | Phone #: (701) 220-9961 | Date: 4-18-25

Legal Descrition (Section-Township-Range): Sec 34 - 142 - 87

Planned Soil Mapunit(s): E2609C (6d)



Conservation Tree & Shrub Group(s): CTSG 6D | Page: 1 of 1

Type of Planting: New | ND One-Call Ticket #: | MLRA: 54

Purpose: 380 - Farmstead | Density 60-80% | Program: ND - OHF

Site Preparation: Tilled/Herbicide | Protected from livestock?: Yes

Distance from Windward row to roads or bldgs. feet

Notes: (Remarks on planting stock, site prep, operation & maintenance, and other pertinent information)

Yellow rows is 500ft on west and east of yard.

Planting No.	Planned Length	Planted Length	Planned dist from prev row	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Type or Variety	CTSG	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie: Height / Suitability	Alternating Specie: Height / Suitability
Red	350			1					CTSG 6D						
Red	350			2					CTSG 6D						
Red	350			3	Redcedar, Eastern				CTSG 6D	8		44		7-9	
Red	350			4	Pine, Ponderosa				CTSG 6D	15		24		12-14	
Red	350			5	Pine, Ponderosa				CTSG 6D	15		24		12-14	
Red	350			6	Juniper, Rocky Mtn.				CTSG 6D	8		44		7-9	
Red	350			7					CTSG 6D						
Yellow	1000			1	Redcedar, Eastern				CTSG 6D	8		125		7-9	
Yellow	1000			2	Pine, Ponderosa				CTSG 6D	15		67		12-14	
Yellow	1000			3	Juniper, Rocky Mtn.				CTSG 6D	8		125		7-9	
Green	370			1	Juniper, Rocky Mtn.				CTSG 6D	8		47		7-9	
Green	370			2	Pine, Ponderosa				CTSG 6D	15		25		12-14	
Green	370			3	Redcedar, Eastern				CTSG 6D	8		47		7-9	
	6560			**Totals**								572			

By signing below, I certify that the design or installation meets the appropriate FOTG Specifications and site specific needs of the client.

Designed by: JDH | Date:

Approved by: | Date:

Checkout by: | Date

Certified by: | Date

Planted by: | Date:

Start Time: | Temp:

Wind: mph | Direction:

Soil Conditions (circle): dry/moist/wet | clean till/scalp | soft/firm/compacted

Trench closed (circle): poorly due to too dry | very well | poorly due to too wet

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Treavor Hendrickson | Address: | Phone #: 701 220-9961 | Date: 4/21/2025

Plan Sketch Map

Quarter: SW 1/4 | Section: 18 | Twnshp: 142N | Range: 85W

Planned Soil Mapunit / name component(s): ns, 3-6% slopes, Verar-Cohagen fine sandy loa

Planned by: ECT Date: 4/21/2025

Approved by: Date:

Conservation Tree & Shrub Group: 6D | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E) Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will be planted with weed mat and tree protectors.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
2	965		10	0.22	1	Pine, Ponderosa			15		65		suitable	
	950					Pine, Ponderosa			15		64		suitable	
1915		10	0.22	**Totals**							129			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: David Henke | Address: 1937 46th Ave. SW, Hannover, ND | Phone #: 701-391-4687 | Date:

Plan Sketch Map

N

Quarter | Section | Twnshp | Range

Planned Soil Mapunit / name component(s) | Planned by: | Date:

Approved by: | Date:

Conservation Tree & Shrub Group: 6D | Select MLRA

Type of Planting | Program

Landuse | Protected from livestock?

Site Preparation | Site conditions at planting time:

Spacing between rows: feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E) | Planted by:

Remarks on site prep, conditions and management (Weed Con | Date:

Landowner has not designated a location for these trees. There are 42 trees not selected yet by the land owner.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	80		20	0.04		Redcedar, Eastern			10		8		suitable	
80		20	0.04	**Totals**							8			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Lonnie Henke | Address: 4889 19th St. SW, | Phone #: 701-400-9251 | Date: 4/17/2025

Plan Sketch Map

N

Quarter: SW 1/4 | Section: 1 | Twnshp: 142N | Range: 86W

Planned Soil Mapunit / name component(s): Arnegard loam, 0 to 2% slope

Planned by: ECT | Date: 4/17/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 1

Select MLRA: 54

Type of Planting: New

Landuse: Farmstead

Program: None

Site Preparation: Fallow

Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: feet

Distance from Windward row to roads or bldgs.: ~25 west of shed feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Landowner will provide final location at time of planting. Trees will be planted with weed matting but no tree protectors.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	11		20	0.01	1	Pine, Ponderosa			10		2		suitable	
11		20	0.01	**Totals**							2			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Steve Hintz | Address: 1007 Deapolis Dr. Hazen, ND | Phone #: 701-870-0954 | Date: 4/21/2025

Plan Sketch Map

Quarter: NW 1/4 | Section: 4 | Twnshp: 142N | Range: 86W

Planned Soil Mapunit / name component(s): a fine sandy loam, 0-3% slopes, Arnegard loar

Planned by: ECT | Date: 4/21/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: NA feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E) | Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Trees will be intermixed with existing tree. Pines will be planted with tree protectors. Cedars will not have tree protectors. No weed matting.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	60		10	0.01	1	Chokecherry, commc			6		10		suitable	
	18				1	Plum, American			6		3		suitable	
	100				2	Redcedar, Eastern			10		10		suitable	
	90				2	Pine, Ponderosa			10		9		suitable	
	80				3	Poplar, White			8		10		NR	
	72				3	Aspen, Quaking			8		9		NR	
420		10	0.01		**Totals**						51			

WEST - TREEPLAN

ND - NRCS — WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Betty Hintz | Address: 1007 Deapolis Dr. | Phone #: 701-870-0954 | Date:

Plan Sketch Map

N

Quarter | Section | Twnshp | Range

Planned Soil Mapunit / name component(s) | Planned by: | Date:

Approved by: | Date:

Conservation Tree & Shrub Group: 6D | Select MLRA

Type of Planting

Landuse | Program

Site Preparation | Protected from livestock?

Site conditions at planting time:

Spacing between rows: feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E) | Planted by:

Remarks on site prep, conditions and management (Weed Con | Date:

Locations for these trees have not yet been designated by the landowners.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	18		10	0.00		Plum, American			6		3		suitable	
	60					Chokecherry, commc			6		10		suitable	
	1740					Redcedar, Eastern			10		174		suitable	
	1700					Pine, Ponderosa			10		170		suitable	
	90					Aspen, Quaking			10		9		NR	
	100					Poplar, White			10		10		NR	
3708		10	0.00		**Totals**						376			

WEST - TREEPLAN

ND - NRCS # WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET ND-CPA-4, Rev. 03-2017

Name: Steve Hintz | Address: 1007 Deapolis Dr. Hazen, ND | Phone #: 701-870-0954 | Date: 4/21/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 17 | Twnshp: 142N | Range: 86W

Planned Soil Mapunit / name component(s): % slopes, Parshall loam, 0-2% slopes, Flaxton

Planned by: ECT | Date: 4/21/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 5

Select MLRA: 54

Type of Planting: New

Landuse: Field

Program: None

Site Preparation: Fallow

Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: NA feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will be intermixed with existing tree rows. Pines will be planted with tree protectors. Cedars will not have tree protectors. No weed matting.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	260		10	0.06		Redcedar, Eastern			10		26		suitable	
	250					Pine, Ponderosa			10		25		suitable	
	510		10	0.06		**Totals**					51			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Steve Hintz | Address: 1007 Deapolis Dr. Hazen, ND | Phone #: 701-870-0954 | Date: 4/21/2025

Plan Sketch Map

N

Quarter: SW 1/4 | Section: 9 | Twnshp: 142N | Range: 86W

Planned Soil Mapunit / name component(s): a fine sandy loam, 0-3% slopes, Arnegard loar

Planned by: ECT | Date: 4/21/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: NA feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Trees will be intermixed with existing tree. Pines will be planted with tree protectors. Cedars will not have tree protectors. No weed matting.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	510		10	0.12	1	Pine, Ponderosa			10		51		suitable	
	510				1	Redcedar, Eastern			10		51		suitable	
1020		10	0.12	**Totals**							102			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Richard Huntmeier | Address: | Phone #: 701-527-0278 | Date:

Plan Sketch Map

N

Quarter | Section | Twnshp | Range

Planned Soil Mapunit / name component(s) | Planned by: | Date:

Approved by: | Date:

Conservation Tree & Shrub Group: 6D | Select MLRA

Type of Planting | Program

Landuse | Protected from livestock?

Site Preparation | Site conditions at planting time:

Spacing between rows: feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E) | Planted by:

Remarks on site prep, conditions and management (Weed Con | Date:

Locations for these trees have not yet been designated by the landowners.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	1000		10	0.23		Redcedar, Eastern			10		100		suitable	
	1000					Pine, Ponderosa			10		100		suitable	
	2000					Juniper, Rocky Mtn.			10		200		suitable	
4000		10	0.23	**Totals**							400			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Merilyn Jensen | Address: 1927 49th Ave SW, Hannover ND | Phone #: 701-794-3549 | Date: 4/9/25

Plan Sketch Map

Quarter: NE 1/4 | Section: 11 | Twnshp: 142N | Range: 86W

Planned Soil Mapunit / name component(s): Grail-Farland silt loams, 2 to 6% slopes

Planned by: ECT Date: 4/9/25

Approved by: Date:

Conservation Tree & Shrub Group: 1 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program:

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: NA feet

Distance from Windward row to roads or bldgs.: 74' and 84' north of hous feet

(Minimum 200' on N & W, and 100' on S & E) Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Two sindle plants will planted within the yard of the landowner north of the house.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	10		10	0.00	1	Aspen, Quaking			10		1		suitable	
	10				2	Dogwood			10		1		suitable	
20		10	0.00	**Totals**							2			

WEST - TREEPLAN

ND - NRCS — WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name	Address	Phone #	Date:
Marshall Karges	4630 15th St SW, Stanton, ND, 58571	701-748-2976	4/8/25

Plan Sketch Map

N

Quarter	Section	Twnshp	Range
SW 1/4	16	143N	85W

Planned Soil Mapunit / name component(s): ams, 3 to 6 percent slope, and Williams Loam,

Planned by: ECT Date: 4/8/25

Approved by: Date:

Conservation Tree & Shrub Group: 3

Select MLRA: 54

Type of Planting: New

Landuse: Field

Program: None

Site Preparation: Fallow

Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: ~100 feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Con Date:

All tree will be planted with weed matting and no tree protectors. Rows are off-set >100 ft. from storage building and >425 ft. from northern property boundary. All trees will have weed control matting, no tree tubes will be used. Rows #2 and #3 will have 32 ft of rocky mountain juniper on the outside end and 24 ft. at each inside end. Row #4 will have 320 ft. of eastern redcedar along the north end. Rows 1-3 will have a

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	1200		17.5	0.48	1	Redcedar, Eastern			9.5		127		suitable	
	1200				2	Juniper, Rocky Mtn.			8		150		suitable	
	1200				3	Juniper, Rocky Mtn.			8		150		suitable	
	100				4	Juniper, Rocky Mtn.			6		17		suitable	
	1100				4	Pine, Ponderosa			14.2		78		suitable	
	100				5	Juniper, Rocky Mtn.			6		17		suitable	
	1100				5	Pine, Ponderosa			14		79		suitable	
	100				6	Juniper, Rocky Mtn.			6		17		suitable	
	1100				6	Pine, Ponderosa			14.2		78		suitable	
7200		17.5	0.48			**Totals**					713			

WEST - TREEPLAN

ND - NRCS — WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Ronald Kessler | Address: Box 14 Stanton ND | Phone #: 701-880-9697 | Date: 4/16/2025

Plan Sketch Map

Quarter: SW 1/4 | Section: 5 | Twnshp: 142N | Range: 86w

Planned Soil Mapunit / name component(s): Williams loam, 6 to 9% slope

Planned by: ECT | Date: 4/16/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: No

Site conditions at planting time:

Spacing between rows: NA feet

Distance from Windward row to roads or bldgs.: ~53 east of 53rd Ave SW feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Plant along elevated land south of sedimentation pond. Not clear if weed mat or tree protectors will be used. No cattle appear to graze the land cover. CTSG for planting #2 and #3 is group 5. Both tree species are suitable for this soil group. All 3 plans are on the same property along the road.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	678		20	0.31	1	Pine, Ponderosa			8		85		suitable	
2	75		10	0.02	1	Caragana			6		13		suitable	
	67				2	Caragana			6		12		suitable	
3	692		20	0.32	1	Redcedar, Eastern			8		87		suitable	
1512			50	0.65		**Totals**					197			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Kelly Maas | Address: 19 13th Ave SW, Hazen, ND | Phone #: 701-891-9772 | Date: 4/16/2025

Plan Sketch Map

Quarter: NW 1/4 | Section: 24 | Twnshp: 143N | Range: 86W

Planned Soil Mapunit / name component(s): laxton-Livona fine sandy loams, 3 to 6% slope

Planned by: ECT Date: 4/16/2025

Approved by: Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: er of storage building an feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Pine trees will be planted with weed matting and tree protectors. Cedars will be planted with weed matting but not tree protectors.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	1074		17.5	0.43	1	Pine, Ponderosa			10		108		suitable	
	1079				2	Pine, Ponderosa			10		108		suitable	
	654				3	Redcedar, Eastern			10		66		suitable	
	80				3	Pine, Ponderosa			10		8		suitable	
	210				4	Redcedar, Eastern			10		21		suitable	
3097		17.5	0.43	**Totals**							311			

WEST - TREEPLAN

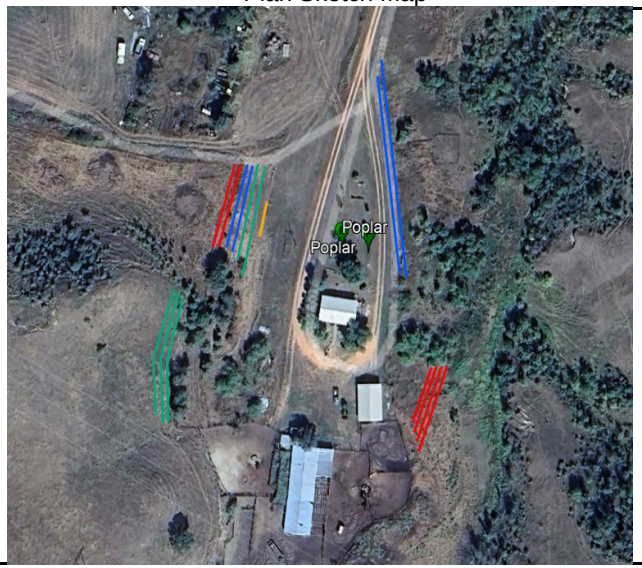
ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jennifer Olander | Address: 4060 9th St. SW, Stanton, ND | Phone #: 701-880-0089 | Date: 4/21/2025

Plan Sketch Map

N



Quarter: NW 1/4 | Section: 20 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Ringling-Cabba comples, 9 to 35% slopes

Planned by: ECT Date: 4/21/2025

Approved by: Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: ~170 east of barn feet

(Minimum 200' on N & W, and 100' on S & E) Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will be planted with weed matting and tree protectors. Final location is subject to landowners discretion. Initial placement is proximity of final placement. Row #16 includes 2 rows with a total length of 500ft. and is the eastern 2 blue lines on the figure.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	102		14	0.03	1	Redcedar, Eastern			8		13		NR	
	102				2	Redcedar, Eastern			8		13		NR	
	102				3	Pine, Ponderosa			10		11		NR	
	102				4	Pine, Ponderosa			10		11		NR	
	102				5	Juniper, Rocky Mtn.			8		13		NR	
	102				6	Juniper, Rocky Mtn.			8		13		NR	
	42				7	Dogwood			6		7		NR	
	11				8	Poplar, White			10		2		NR	
	150				9	Juniper, Rocky Mtn.			8		19		NR	
	150				10	Juniper, Rocky Mtn.			8		19		NR	
	150				11	Juniper, Rocky Mtn.			8		19		NR	
	70				12	Redcedar, Eastern			8		9		NR	
	85				13	Redcedar, Eastern			8		11		NR	
	95				14	Redcedar, Eastern			8		12		NR	
	105				15	Redcedar, Eastern			15		7		NR	
	500				16	Pine, Ponderosa			15		34		NR	
1970		14	0.03		**Totals**						213			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jennifer Olander | Address: 4060 9th St. SW, Stanton, ND | Phone #: 701-880-0089 | Date: 4/21/2025

Plan Sketch Map

Quarter: NW 1/4 | Section: 20 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Werner-Amor-Arnegard loams, 9 -50% slopes

Planned by: ECT | Date: 4/21/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: ~100 west of house feet

(Minimum 200' on N & W, and 100' on S & E) | Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Trees will be planted with weed matting and tree protectors. Final location is subject to landowners discretion. Initial placement is proximity of final placement. No trees should be planted in pasturelands that are hayed.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
2	535		14	0.17	1	Juniper, Rocky Mtn.			8		67		NR	
	1006				2	Juniper, Rocky Mtn.			8		126		NR	
	1061				3	Pine, Ponderosa			10		107		NR	
	1110				4	Pine, Ponderosa			10		111		NR	
	31				5	Pine, Ponderosa			10		4		NR	
	46				6	Pine, Ponderosa			10		5		NR	
	160				7	Pine, Ponderosa			10		16		NR	
	21				8	Poplar, White			10		3		NR	
	42				9	Dogwood			6		7		NR	
4012		14	0.17		**Totals**						446			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jennifer Olander | Address: 4060 9th St. SW, Stanton, ND | Phone #: 701-880-0089 | Date: 4/21/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 20 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Werner-Amor-Arnegard loams, 9 -50% slopes

Planned by: ECT Date: 4/21/2025

Approved by: Date:

Conservation Tree & Shrub Group: 10 | Select MLRA:

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: ~90 south of house feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will be planted with weed matting and tree protectors. Final location is subject to landowners discretion. Initial placement is proximity of final placement. No trees should be planted in pasturelands that are hayed.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
3	217		14	0.07	1	Juniper, Rocky Mtn.			8		28		NR	
	238				2	Juniper, Rocky Mtn.			8		30		NR	
	266				3	Juniper, Rocky Mtn.			8		34		NR	
	320				4	Redcedar, Eastern			8		40		NR	
	321				5	Redcedar, Eastern			10		33		NR	
	320				6	Redcedar, Eastern			10		32		NR	
	114				7	Juniper, Rocky Mtn.			8		15		NR	
	119				8	Juniper, Rocky Mtn.			8		15		NR	
	127				9	Pine, Ponderosa			10		13		NR	
	135				10	Pine, Ponderosa			10		14		NR	
	144				11	Pine, Ponderosa			10		15		NR	
2321			14	0.07	**Totals**						269			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jennifer Olander | Address: 4060 9th St. SW, Stanton, ND | Phone #: 701-880-0089 | Date: 4/21/2025

Plan Sketch Map

N

Quarter: SW 1/4 | Section: 20 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Mined land complex, 0 - 60% slopes

Planned by: ECT Date: 4/21/2025

Approved by: Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will be planted with weed matting and tree protectors. Final location is subject to landowners discretion. Initial placement is proximity of final placement.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
4	702		14	0.23	1	Pine, Ponderosa			10		71		NR	
	651				2	Juniper, Rocky Mtn.			8		82		NR	
	651				3	Juniper, Rocky Mtn.			8		82		NR	
	142				4	Redcedar, Eastern			8		18		NR	
	151				5	Redcedar, Eastern			8		19		NR	
	161				6	Redcedar, Eastern			8		21		NR	
	422				7	Pine, Ponderosa			10		43		NR	
	420				8	Pine, Ponderosa			10		42		NR	
	420				9	Pine, Ponderosa			10		42		NR	
	305				10	Pine, Ponderosa			10		31		NR	
	301				11	Pine, Ponderosa			10		31		NR	
	300				12	Pine, Ponderosa			10		30		NR	
	400				13	Juniper, Rocky Mtn.			8		50		NR	
	400				14	Juniper, Rocky Mtn.			8		50		NR	
	400				15	Juniper, Rocky Mtn.			8		50		NR	
	400				16	Juniper, Rocky Mtn.			8		50		NR	
	6226		14	0.23		**Totals**					712			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jennifer Olander | Address: 4060 9th St. SW, Stanton, ND | Phone #: 701-880-0089 | Date: 4/21/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 20 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Cabba-Badland complex, 6 - 70% slopes

Planned by: ECT Date: 4/21/2025

Approved by: Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will be planted with weed matting and tree protectors. Final location is subject to landowners discretion. Initial placement is proximity of final placement.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
3	350		14	0.11	1	Juniper, Rocky Mtn.			8		44		NR	
	362				2	Redcedar, Eastern			8		46		NR	
	373				3	Juniper, Rocky Mtn.			8		47		NR	
	289				4	Juniper, Rocky Mtn.			8		37		NR	
	297				5	Redcedar, Eastern			8		38		NR	
	304				6	Juniper, Rocky Mtn.			8		38		NR	
					7									
					8									
					9									
					10									
					11									
					12									
					13									
					14									
					15									
					16									
	1975		14	0.11	**Totals**						250			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jennifer Olander | Address: 4060 9th St. SW, Stanton, ND | Phone #: 701-880-0089 | Date: 4/21/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 20 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Cabba-Badland complex, 6 - 70% slopes

Planned by: ECT | Date: 4/21/2025

Approved by: | Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will be planted with weed matting and tree protectors. Final location is subject to landowners discretion. Initial placement is proximity of final placement.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
6	310		14	0.10	1	Pine, Ponderosa			10		31		NR	
	360				2	Redcedar, Eastern			8		45		NR	
	396				3	Redcedar, Eastern			8		50		NR	
	318				4	Juniper, Rocky Mtn.			8		40		NR	
	146				5	Juniper, Rocky Mtn.			8		19		NR	
	146				6	Juniper, Rocky Mtn.			8		19		NR	
	146				7	Juniper, Rocky Mtn.			8		19		NR	
	146				8	Juniper, Rocky Mtn.			8		19		NR	
	146				9	Juniper, Rocky Mtn.			8		19		NR	
					10									
					11									
					12									
					13									
					14									
					15									
					16									
	2114		14	0.10	**Totals**						261			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jennifer Olander | Address: 4060 9th St. SW, Stanton, ND | Phone #: 701-880-0089 | Date: 4/21/2025

Plan Sketch Map

N

Quarter: NW 1/4 | Section: 20 | Twnshp: 144N | Range: 84W

Planned Soil Mapunit / name component(s): Werner-Amor-Arnegard loams, 9 - 50% slopes

Planned by: ECT Date: 4/21/2025

Approved by: Date:

Conservation Tree & Shrub Group: 10 | Select MLRA: 54

Type of Planting: New

Landuse: Field | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 8 feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

Trees will be planted with weed matting and tree protectors. Final location is subject to landowners discretion. Initial placement is proximity of final placement.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
7	300		14	0.10	1	Juniper, Rocky Mtn.			8		38		NR	
	300				2	Juniper, Rocky Mtn.			8		38		NR	
	300				3	Redcedar, Eastern			8		38		NR	
	300				4	Redcedar, Eastern			8		38		NR	
	300				5	Redcedar, Eastern			8		38		NR	
	300				6	Redcedar, Eastern			8		38		NR	
	300				7	Juniper, Rocky Mtn.			8		38		NR	
	300				8	Juniper, Rocky Mtn.			8		38		NR	
	275				9	Juniper, Rocky Mtn.			8		35		NR	
	100				10	Redcedar, Eastern			8		13		NR	
	173				11	Redcedar, Eastern			8		22		NR	
	160				12	Redcedar, Eastern			8		20		NR	
	153				13	Redcedar, Eastern			8		20		NR	
3261			14	0.10	**Totals**						414			

WEST - TREEPLAN

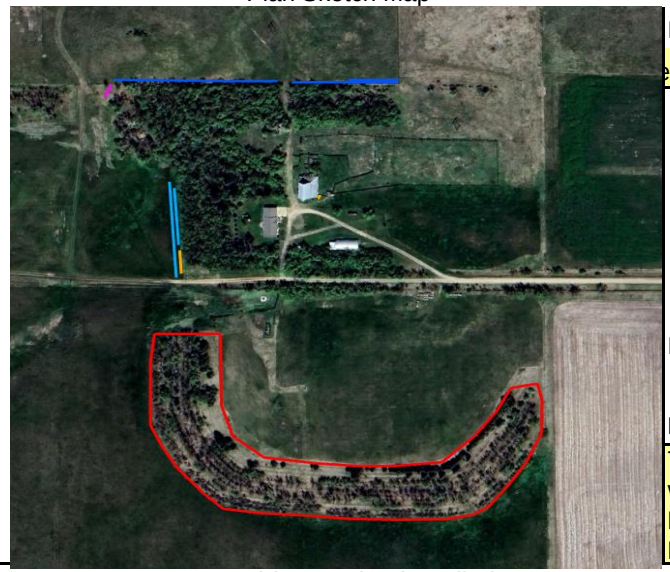
ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Carolyn Oster | Address: 4955 18th St. SW | Phone #: 701-880-2018 | Date: 4/16/2025

Plan Sketch Map

N



Quarter: SW 1/4 | Section: 35 | Twnshp: 143N | Range: 86W

Planned Soil Mapunit / name component(s) | Planned by: ECT | Date: 4/16/2025

lls loams, 3 to 6% slopes and Arnegard loam, | Approved by: | Date:

Conservation Tree & Shrub Group: 3 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 15 feet

Distance from Windward row to roads or bldgs.: feet

(Minimum 200' on N & W, and 100' on S & E) | Planted by:

Remarks on site prep, conditions and management (Weed Cor | Date:

Trees are planted with weed mat and tree protectors. Row #1 is loctaed along west end of the existing woodland area north of homestead. Row #2 is located near the NE corner of a barn. Rows 3 & 4 are located west of the house. Rows 5 & 6 are located north of the house. Row #7 is located south of the house and the eastern redcedars will be intermixed with existing trees.

This practice installation **MEETS** / **DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: | **Date:** | **Certified By:** | **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	40		17.5	0.02	1	Chokecherry, commc			8		5		suitable	
	15				2	Dogwood			6		3		suitable	
	124				3	Poplar, White			10		13		suitable	
	179				3	Juniper, Rocky Mtn.			10		18		suitable	
	70				4	Poplar, White			10		7		suitable	
	110				4	Juniper, Rocky Mtn.			10		11		suitable	
	30				4	Chokecherry, commo			6		5		suitable	
	42				4	Dogwood			6		7		suitable	
	719				5	Pine, Ponderosa			10		72		suitable	
	130				6	Pine, Ponderosa			10		13		suitable	
	690				7	Redcedar, Eastern			8		87		suitable	
	2149		17.5	0.02		**Totals**					241			

WEST - TREEPLAN

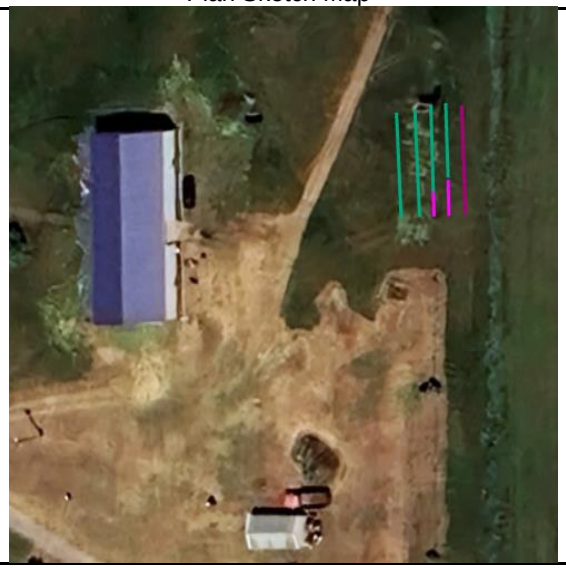
ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jesse Roth | Address: 1980 53rd Ave SW, Hannover, ND | Phone #: 701-471-7359 | Date: 4/9/2025

Plan Sketch Map

N



Quarter: SW 1/4 | Section: 8 | Twnshp: 142N | Range: 86W

Planned Soil Mapunit / name component(s): laxton-Livona find sandy loams, 3 to 6% slope

Planned by: ECT Date: 4/9/2025

Approved by: Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 12 feet

Distance from Windward row to roads or bldgs.: ~125 ft. feet

(Minimum 200' on N & W, and 100' on S & E) Planted by:

Remarks on site prep, conditions and management (Weed Cor Date:

All trees will be planted with weed matting and tree tubes will be used on all trees except for the eastern redcedar. Trees placed in 4 rows. Rows #3 & 4 will include the poplar tree and will keep them together on the south end of the 2 rows. The other trees will be planted alternating between the species.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
1	12		16	0.00	1	Aspen, Quaking			8		2		NR	
	17				1	Juniper, Rocky Mtn.			8		3		suitable	
	17				1	Redcedar, Eastern			8		3		suitable	
	17				2	Aspen, Quaking			8		3		NR	
	13				2	Juniper, Rocky Mtn.			8		2		suitable	
	17				2	Redcedar, Eastern			8		3		suitable	
	17				3	Aspen, Quaking			8		3		NR	
	17				3	Juniper, Rocky Mtn.			8		3		suitable	
	12				3	Redcedar, Eastern			8		2		suitable	
	12				3	Poplar, White			8		2		NR	
	15				4	Aspen, Quaking			8		2		NR	
	15				4	Juniper, Rocky Mtn.			8		2		suitable	
	15				4	Redcedar, Eastern			8		2		suitable	
	18				4	Poplar, White			8		3		NR	
	55				5	Plum, American			6		10		suitable	
	269		16	0.00		**Totals**					45			

WEST - TREEPLAN

ND - NRCS WESTERN ND - TREE AND SHRUB PLANTING WORKSHEET

ND-CPA-4, Rev. 03-2017

Name: Jesse Roth | Address: 1980 53rd Ave SW, Hannover, ND | Phone #: 701-471-7359 | Date: 4/16/2025

Plan Sketch Map

N

Quarter: SW 1/4 | Section: 8 | Twnshp: 142N | Range: 86W

Planned Soil Mapunit / name component(s): laxton-Livona find sandy loams, 3 to 6% slope

Planned by: ECT Date: 4/16/2025

Approved by: Date:

Conservation Tree & Shrub Group: 5 | Select MLRA: 54

Type of Planting: New

Landuse: Farmstead | Program: None

Site Preparation: Fallow | Protected from livestock?: Yes

Site conditions at planting time:

Spacing between rows: 4 feet

Distance from Windward row to roads or bldgs.: . from east side of small feet

(Minimum 200' on N & W, and 100' on S & E)

Planted by: Date:

Remarks on site prep, conditions and management (Weed Cor

Trees will be planted with weed matting and tree tubes. Alternate pine and cedar for each row. Planting No. #3 include trees provided to the landowner to plant at their discrection. Landowner will provide the locations of these trees for post planting verification when the mitigation plan assess survivability.

This practice installation **MEETS / DOES NOT MEET** the ND FOTG standards and specifications. (circle one)

Checkout by: **Date:** **Certified By:** **Date:**

Planting No.	Planned Length	Planted Length	Plannned Width	Acres	Row #	Primary Species of Tree or Shrub	Type or Variety	Alternating Specie	Planned Spacing in row	Row Spacing (installed)	Number Plannned (est)	Number Planted (installed)	Primary Specie / CTSG Suitability	Alternating Specie / CTSG Suitability
2	125		12	0.03	1	Pine, Ponderosa			4		32		suitable	
	130				1	Redcedar, Eastern			4		33		suitable	
	125				2	Pine, Ponderosa			4		32		suitable	
	130				2	Redcedar, Eastern			4		33		suitable	
	84				3	Pine, Ponderosa			4		21		suitable	
	84				3	Redcedar, Eastern			4		21		suitable	
3	800		12	0.22		Redcedar, Eastern			8		100		suitable	
	240					Pine, Ponderosa			8		30		suitable	
	416					Juniper, Rocky Mtn.			8		52		suitable	
2134		24	0.25	**Totals**							354			

WEST - TREEPLAN