

Appendix G
Raptor Nest Survey

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Raptor Nest Survey Report



Center to Grand Forks 345 kV Line

Prepared For:
Minnkota Power Cooperative, Inc

Prepared By:
HDR Engineering, Inc.

May 2010

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EXECUTIVE SUMMARY

On March 29 and 30, 2010, two HDR biologists—Melissa Lundberg and Aaron Diehl—conducted raptor nest surveys on three routes (A, B, and C) and 24 segment alternatives (A1 to A24) that are being studied as part of the Center to Grand Forks 345 kV Transmission Line Project. Raptor nests are often classified as stick nests or large collections of sticks. The three routes vary in length from about 250 to 270 miles. The cumulative length of these routes and segment alternatives represent more than 800 miles of alignment. Surveys took place from a fixed-wing aircraft piloted by Larry Gebhardt, Minnkota Power Cooperative, Inc (Minnkota) pilot.

No unavoidable nesting raptor issues were identified during stick nest surveys. No notable differences in nesting densities or raptor use were observed between the three routes.

Bald Eagles

Newly Recorded Bald Eagle Nests

One active bald eagle nest was recorded in a treed windrow in Section 5 of Cherry Lake Township (T148N, R63W) in Eddy County, about 700 feet south of the southern boundary of Route A. Two birds occupied the nest during the surveys. This nest was not previously recorded in GIS.

Previously Recorded Observations

North Dakota Game and Fish Department Data

No previously documented nests by North Dakota Game and Fish Department GIS data occurred within 0.5 miles of the routes and segment alternatives.

North Dakota Parks and Recreation Department Data

North Dakota Parks and Recreation Department (NDPRD) GIS data recorded a bald eagle about 1,100 feet north of Route B and a bald eagle about 1,200 feet north of Route C, near the Missouri River crossings. NDPRD GIS data does not specify the type of eagle observation documented at these points, thus it is unknown if these points represented nest locations or observations. GIS metadata indicated that this data is coarsely mapped to 2 kilometer accuracy from the points. The eagle records also appear to be historical with observations occurring in 1979 (record near Route B) and 1992 (record near Route C)

Multiple flyovers did not confirm the presence of eagle nests at or within 1,000 feet of these two NDPRD eagle data point locations.

Bald Eagle Observations

A total of 23 individual bald eagles were observed during the surveys. No eagles were observed within 1,000 feet of an alternative segment.

Three groupings of eagles (three or more birds) were observed within 1,000 feet of the routes. They are as follows:

- **Route A**

A group of five eagles perched in tree rows adjacent to Rocky Run and Rosefield Slough, Eddy County (Section 28, T148N, R67W). Three of these eagles were perched in trees within the route and two were perched about 700 feet north of the route.

- **Route B**

A group of three eagles perched in a clump of trees about 900 feet south of the route, Wells County (Section 30, T146N, R70W).

- **Route C**

A group of four eagles were observed soaring adjacent to the north side of the route, over a farm field located about 2 miles south of Rocky Run, Wells County (Section 28, T147N, R68W).

Raptors

A total of 41 individual stick nests (excluding bald eagle nests) were observed during the surveys. Individual hawks were occasionally observed throughout the Project alignments. While the survey emphasized stick nest locations, GPS locations of individual hawks were recorded when feasible; locations of seventeen individual hawks were recorded during surveys.

Potential raptor nest locations were identified throughout the Project with the majority of nest observations being located in tree rows and tree clumps in Wells, Eddy, and Foster Counties. All routes displayed similar numbers of stick nests.

1.0 INTRODUCTION

HDR Engineering, Inc. (HDR), was contracted by Minnkota Power Cooperative, Inc (Minnkota) to perform raptor nest surveys for the proposed Center to Grand Forks 345 kV Transmission Line Project (Project). This Project is located between the Center Substation near Center, North Dakota, and the Prairie Substation near Grand Forks, North Dakota. Raptor nests are often classified as stick nests or large collections of sticks.

The raptor nest surveys took place within three 1,000-foot-wide route options (Routes A, B, and C). Twenty-four alternative segments (A1-A24) were also surveyed as part of these efforts. Survey included:

- **Route A**
Generally follows the northern macro-corridor.
- **Route B**
Generally follows the southern macro-corridor.
- **Route C**
Generally follows the central portion of the macro-corridor.
- **Route Segment Alternatives 1-24**
Segment alternatives may be used to developed route variations within and/or between the routes

The three routes vary in length from about 250 to 270 miles. Cumulative length of the routes and segment alternatives represents more than 800 miles of alignment. The results of these raptor surveys will assist with the selection of the final transmission line alignment and right-of-way. The construction, operation, and maintenance of the final alignment may require the clearing of trees within the right-of-way to utility standards. Right-of-way clearing may require the removal of raptor nests (except bald and golden eagle nests) in accordance with US Fish and Wildlife Service's (USFWS) recommendations as authorized under the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.

2.0 US FISH AND WILDLIFE SERVICE COMMUNICATION

USFWS made recommendations regarding nesting birds in a response letter received by Minnkota on June 2, 2009. The bald eagle and raptor nest surveys have been conducted in consideration of the recommendations quoted below.

2.1 US Fish and Wildlife Service Bald Eagle Recommendations

The North Dakota Game and Fish (NDGF) bald eagle nest database indicated that bald eagle nests are located in the project area. We recommend conducting surveys to identify bald eagle nests along the proposed route in winter/early spring before trees have leaves that could screen possible nests. To avoid/minimize impacts to nesting bald eagles from transmission line construction activities, the Service recommends (1) keeping a distance between the activity and the nest (distance buffers: 660 feet if the activity will be visible from the nest; 330 feet if the activity will not be visible from the nest.) Clearing, external construction, and landscaping between 330 feet and 660 feet should be done outside breeding season. (2) maintaining preferably forested (or natural) areas between the activity and around nest trees (landscape buffers), and (3) avoiding certain activities during breeding season. The buffer areas serve to minimize visual and auditory impacts associated with human activities near nest sites. Ideally, buffers would be large enough to protect existing nest trees and provide for alternative or replacement nest trees. The Service's May 2007, National Bald Eagle Management Guidelines contain detailed information on protecting bald eagles from disturbance due to human activity. The guidelines can be accessed on the Service's website: (<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BaldEagle/NationalBaldEagleManagementGuidelines.pdf>).

2.2 US Fish and Wildlife Service Migratory Bird Recommendation

Schedule constructions for late summer or fall/early winter so as not to disrupt waterfowl or other wildlife during the breeding season (February 1 to July 15). If work is proposed to take place during the breeding season or at any other time which may result in the take of migratory birds or active nests, the Service recommends that the project proponent arrange to have a qualified biologist conduct a field survey of the affected habitats to determine the absence or presence of nesting migratory birds. If nesting migratory birds are found, we request you contact this office, suspend construction, or take other measures, such as maintaining adequate buffers, to protect the birds until the young have fledged. The Service further recommends that field surveys from nesting birds, along with information regarding the qualifications of the biologist(s) performing surveys, and any avoidance measures implemented at the project site, be thoroughly documented and that such documentation be shared with the Service and maintained on file by the project proponent at least until such time as construction on the proposed project has been completed.

3.0 METHODOLOGY— BALD EAGLE AND RAPTOR NEST SURVEYS

3.1 Survey Protocol

Survey Methods

An aerial survey from a fixed-wing aircraft was conducted on March 29 and 30, 2010, during “leaf off” or the time before trees have leaves providing improved visibility into trees. One pass was flown over the center of the routes and segment alternatives at a general height of between 100 feet and 300 feet above ground level. Multiple passes were made in instances of higher potential habitat (such as wooded riparian areas adjacent to the Missouri River) and where previous survey data had recorded nest locations. Visibility was clear during surveys. Two HDR biologists, in addition to the pilot, conducted the surveys. Survey results have not been ground-truthed to record the exact nest location and potential species occupying the nest.

Survey Visibility Distances

- **Large Stick Nests:** From the aircraft, visibility of large objects such as bald eagle nests, would have been visible within 0.5 miles on either side of the 1,000-foot-wide route limits.
- **Small Stick Nests:** From the aircraft, smaller objects such as raptor nests, would have been visible within, at minimum, 500 feet of the route limits.
- **Individual Eagles:** From the aircraft, individual bald eagles that were perched or soaring were visible, at minimum, within 1,000 feet of the route limits.

Nests locations were recorded using GPS. Data was also recorded on the attached Raptor Nest Identification Forms (Appendix A) and summarized in Table 4-1 to Table 4-5. Data was collected according to the standards discussed in Section 3.2, below.

3.2 Raptor Nest Identification and Documentation

Previously Documented Nests

Nesting sites are generally located within larger, forested areas near large lakes and rivers where nests are built in tall, old, or dead trees. Nest site selection is largely dependent upon maximum local food availability. Also, raptor nests can be found in other locations such as outcrops, knolls, ridges, or windrows. Bald eagles prefer to nest far from human activity.

Nests documented in previous surveys were identified in all documentation (reports, tables, etc.) with the identification number supplied by USFWS or NDGF to avoid confusion and prevent nests from being double-counted.

New Nests

New nests were assigned a unique 10-digit, alphanumeric identification number (see below). Each identification number is structured to indicate location. Three alpha/numeric characters indicate the township number and whether the township is north or south of the base line (N or S). These are followed by another three alphanumeric characters that indicate the range number and whether the range is east or west of the base line (E or W). The next two (numeric) characters refer to the section and the final two (numeric) characters represent a sequential number for all known and

inventoried nests within that section. Historically, raptors do not nest in the winter, thus most species were not be identifiable; although species were be identified when possible.

11N 54E 21 01

{Township} {Range} {section} {nest no.}

For example: nest number 11N54E2101 is located in Township 11 North, Range 54 East, Section 21, and this is the first nest identified within Section 21.

Nest Location

For each location surveyors:

- Entered the township, range, section and ¼ section; for example: 111N 62W Section 5, NE 1/4
- Entered the county name
- Entered the UTM Zone of the nest location
- Entered the northing UTM coordinate (7 characters)
- Entered the easting UTM coordinate (6 characters)
- Entered the approximate nest site elevation in feet. (NOT nest height, but the elevation of the terrain)
- Entered the name of the appropriate USGS 7.5-inch quadrangle

Nest Condition

Nest condition was recorded, when feasible, with the following classification system:

- GONE: Past surveys have indicated a nest, but no remnants of the nest can be found
- REMNANTS: Scant material remains and is not usable unless fully rebuilt
- POOR: Nest is dilapidated and in need of major repair to be used
- FAIR: Nest is not dilapidated, but needs significant repair in order to be used
- GOOD: Nest is in need of only minor attention in order to be used
- EXCELLENT: Nest is able to be used with little or no attention or maintenance
- UNKNOWN: The nest is obviously present, i.e., a tree cavity or rock cavity, but because of its location, no determination can be made

Date Observed

The date of the nest observation was recorded in month/day/year format (MM/DD/YYYY). This format applies to the date of the first observation and the dates of all future observations.

Observed By

The name of the person making the first observation of this nest was recorded.

Ownership

Land ownership was recorded as listed below:

- P: Private land
- S: State land
- F: Federal land
- OTHER: Other – specify

Nest Substrate and Exposure

Surveyors, when feasible:

- Recorded (in feet) the height of the substrate (ridge, tree, etc.) upon or in which the nest is located above the surrounding terrain
- Recorded (in feet) the height of the nest on or in the substrate, i.e., height of tree nest above the ground; height of ridge nest on ridge; height of pillar nest above the surrounding terrain
- Recorded the general direction of nest exposure, i.e., N, NE, S, SW, WNW, etc.
- Recorded the type of substrate upon which nest is built; for example, tree species, live or dead, rock outcrop, riparian area, windrow, or manmade structure

Vegetation Type

Surveyors, when feasible, recorded the general habitat type and vegetation found around the nest site; for example, grassland, woodland, cultivated cropland, pasture, or riparian.

3.3 Remarks

Surveyors recorded any unique features, physical relationships to other nests, proximity to human disturbances, or other pertinent observations.

4.0 SURVEY RESULTS

4.1 General Habitat Observations

The Project crosses two distinct ecological regions, the Lake Agassiz Plain and the Glaciated Plains (USGS, 2006).¹ During surveys, the Project routes appeared wetter than normal, with many streams overflowing their banks and many wetlands flooding relatively larger areas than normal.

Lake Agassiz Plain Ecoregion

The Lake Agassiz Plain Ecoregion is located in the eastern portion of the routes and is associated with the Red River Valley, which represents about 20 percent of the route areas. This area is described as an extremely flat landscape with occasional creeks, streams, and tree rows with relatively few wetlands. Within the Project, most of the Lake Agassiz Plain is used for row crop agriculture.

While this area of the Project supports a higher density of tree rows than the western Project portion, fewer nests were observed, possibly due to a scarcity of foraging habitat.

Glaciated Plains Ecoregion

The western 80 percent of the Project is part of the Glaciated Plains Ecoregion. This landscape is characterized by rolling terrain that is punctuated by numerous prairie pothole wetlands. The elevation of this region increases from east to west. Land cover is a mixture of cropland and grassland, with native mixed-grass prairie being relatively common on steeper terrain.

Within this region, the majority of nest observations were recorded in tree rows and tree clumps within the central part of the routes in Wells, Eddy, and Foster Counties.

4.2 Bald Eagle Nests

Corridors

No bald eagle nests were recorded within the routes or segment alternatives.

Within 0.5 Miles of Corridors

One, new active bald eagle nest was recorded in a tree row in Eddy County, about 700 feet south of the southern boundary of Route A in the NE ¼ of Section 5, T147N, R63W (Figure 31).

Previously Recorded Data

North Dakota Game and Fish Department Data

No previously documented nests by the North Dakota Game and Fish Department GIS data occurred within 0.5 miles of the routes and segment alternatives.

¹US Geological Survey. 2006. *Ecoregions of North and South Dakota*.

<http://www.npwrc.usgs.gov/resource/habitat/ndsdeco/nodak.htm>. Accessed April 13, 2010.

North Dakota Parks and Recreation Department Data

North Dakota Parks and Recreation Department (NDPRD) GIS data recorded a bald eagle about 1,100 feet north of Route B and a bald eagle about 1,200 feet north of Route C, near the Missouri River crossings. NDPRD GIS data does not specify the type of eagle observation documented at these points, thus it is unknown if these points represent nest locations or individuals. GIS metadata indicated that this data is coarsely mapped to 2 kilometer accuracy from the points. The eagle records also appear to be historical with observations occurring in and 1979 (record near Route B) and 1992 (record near Route C)

Multiple flyovers did not confirm the presence of eagle nests at or within 1,000 feet of these two NDPRD eagle data point locations.

4.3 Bald Eagle Observations

Survey Results

A total of 23 individual bald eagles were observed during surveys. Nine were observed within the routes. No eagles were observed within 1,000 feet of an alternative segment. Table 4-1 summarizes the eagles sited near the routes.

Table 4-1. Bald Eagle Nests and Observations – Within and Adjacent to Routes

Distance	Feature Type	Routes		
		A	B	C
Within Route	Bald Eagles (Soaring)	0	0	0
	Bald Eagles (Perched)	5	4	0
	Total Bald Eagles Observed	5	4	0
Within 1,000 ft of Route Limits (does not include route)	Bald Eagle Nest	1*	0	0
	Bald Eagle (Nesting)	2	0	0
	Bald Eagles (Soaring)	0	0	6
	Bald Eagles (Perched)	3	3	3
	Total Bald Eagles Observed	5	3	9

**Eagle nest located about 700 ft south of Route A in Eddy County*

Groupings of Three or More Bald Eagles

Three observations recorded groupings of three or more bald eagles. These groupings of eagles are summarized in Table 4-2 and are shown in Figures 11, 26, and 27.

Table 4-2. Bald Eagle Groups of Three or More Birds – Within and Adjacent to Routes

Location	Soaring	Perched	Routes						Comment
			A		B		C		
			With/in	With/in 1,000 ft	With/in	With/in 1,000 ft	With/in	With/in 1,000 ft	
SW 1/4, Sec 30, T146N, R70W, Wells Co.	no	yes	0	0	0	3	0	0	Group of three eagles perched in a clump of trees adjacent to wetlands surrounded by tilled fields
NW 1/4, Sec 28, T147N, R68W, Wells Co.	yes	no	0	0	0	0	0	4	Group of four eagles soaring over farm field located about 2 miles south of Rocky Run
N 1/2, Sec 28, T148N, R67W, Eddy Co.	no	yes	3	2	0	0	0	0	Group of five eagles perched in tree rows adjacent to Rocky Run and Rosefield Slough

4.4 Raptor Nests

Survey Results

At total of 41 individual stick nests (excluding eagle nests) were observed during surveys. Seventeen different hawks were recorded during surveys. Table 4-3, Table 4-4, and Table 4-5 summarizes the raptor nests and individual raptor observations near the routes and segment alternatives. These nests are shown on the Figure Index and Figures that are attached to this report.

Table 4-3. Raptor Nests and Observations – Within and Adjacent to Routes

Distance	Feature Type	Routes		
		A	B	C
Within Route	Raptor Nest	10	10	12
	Hawks Observed	2	10	1
Within 1,000 ft of Route Limits*	Raptor Nest	6	4	3
	Hawks Observed	0	2	0

**Does not include area within routes*

Table 4-4. Raptor Nests and Observations – Within and Adjacent to Segment Alternatives 1-12

Distance	Feature Type	Segment Alternatives											
		A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12
Within Route	Raptor Nest	0	0	0	0	0	0	0	0	1	0	0	0
	Hawks Observed	0	0	0	0	0	0	0	0	0	0	0	0
Within 1,000 ft of Route Limits*	Raptor Nest	0	0	0	0	0	0	0	0	1	1	1	3
	Hawks Observed	0	0	0	0	0	0	0	0	0	0	0	0

**Does not include area within routes*

Table 4-5. Raptor Nests and Observations – Within and Adjacent to Segment Alternatives 13-24

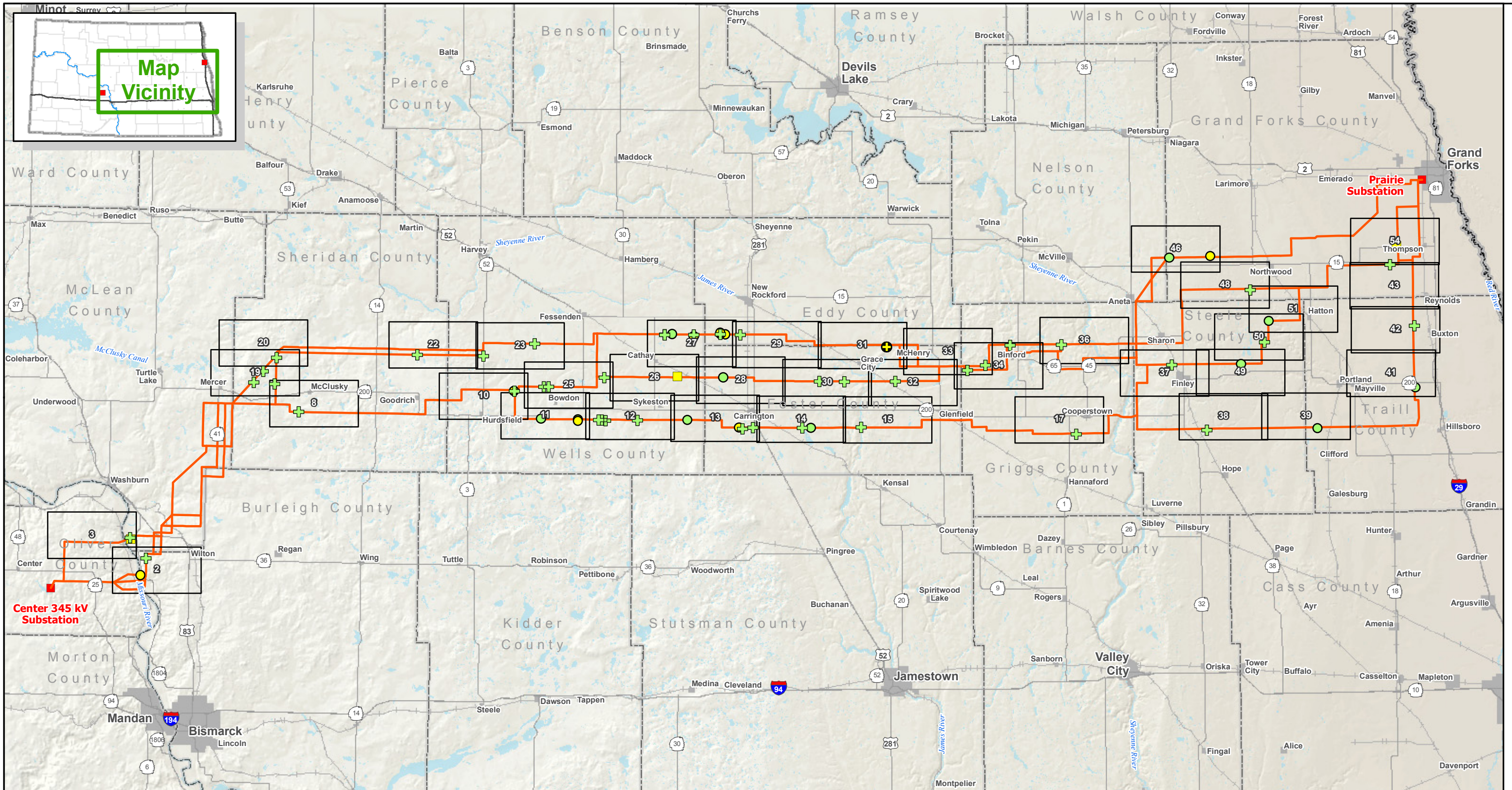
Distance	Feature Type	Segment Alternatives											
		A13	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24
Within Route	Raptor Nest	0	0	0	1	0	0	0	0	2	0	0	0
	Hawks Observed	0	0	0	0	0	0	0	0	2	0	0	0
Within 1,000 ft of Route Limits*	Raptor Nest	0	0	0	0	0	0	0	0	0	0	0	0
	Hawks Observed	0	0	0	0	0	0	0	0	0	0	1	0

**Does not include area within routes*

5.0 QUALIFICATIONS

Name Project Role	Education And Professional Experience
Aaron Diehl Environmental Scientist Taylor University MS—Environmental Science Taylor University BS—Environmental Biology	Mr. Diehl is an environmental scientist for HDR. He has five years of experience in the environmental field, and more than three years of experience working on permits and applications for the energy industry. Mr. Diehl has worked on applications and permits for transmission line, wind energy, and transportation projects, which includes NEPA documents, Certificate of Need applications, and Route Permit applications. He also has experience in wetland delineations, threatened and endangered species surveys, avian surveys, and ArcView GIS.
Melissa Lundberg Environmental Scientist Gustavus Adolphus College BA—Environmental Studies	Ms. Lundberg has more than two years of experience in the environmental consulting field. While working as an environmental scientist, Ms. Lundberg has drafted biological management plans for noxious weeds and native vegetation, and also gained field experience while conducting biological surveys in South Dakota and Wyoming for the United States Forest Service. She conducted surveys for bald eagles and other raptor nesting as well as roosts and sage grouse.

Figures—Nest Surveys



Center to Grand Forks Project

Minnkota Power
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0 10 20 Miles



April 2010

Figure Index

Route and Segment Alternatives

Substation

Hawk Observation

Possible Raptor Stick Nest

Bald Eagle Nest

Perched Bald Eagle

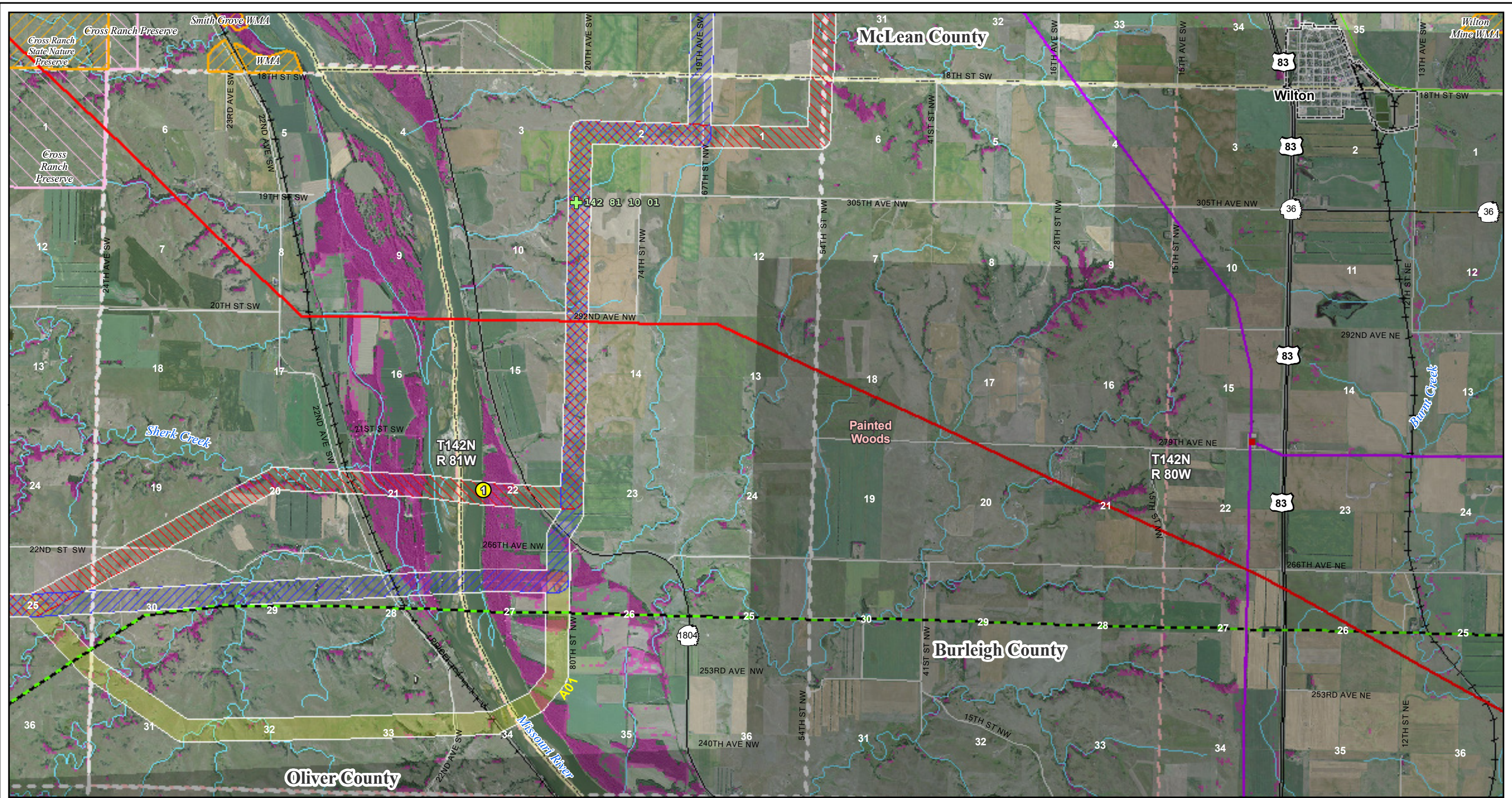
Soaring Bald Eagles

March 29-30, 2010 Nest Surveys

Routes and Segment Alternatives

Figure Index

Center to Grand Forks Transmission Line



Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000
0 0.5 1 Miles

April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

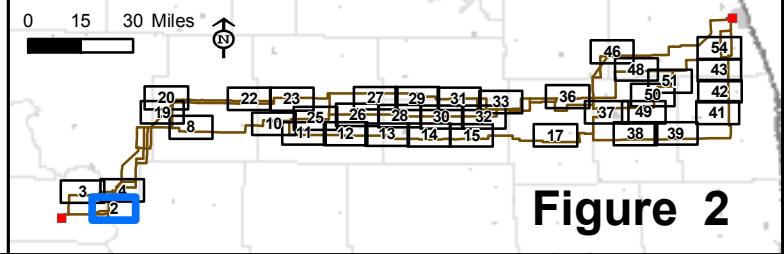
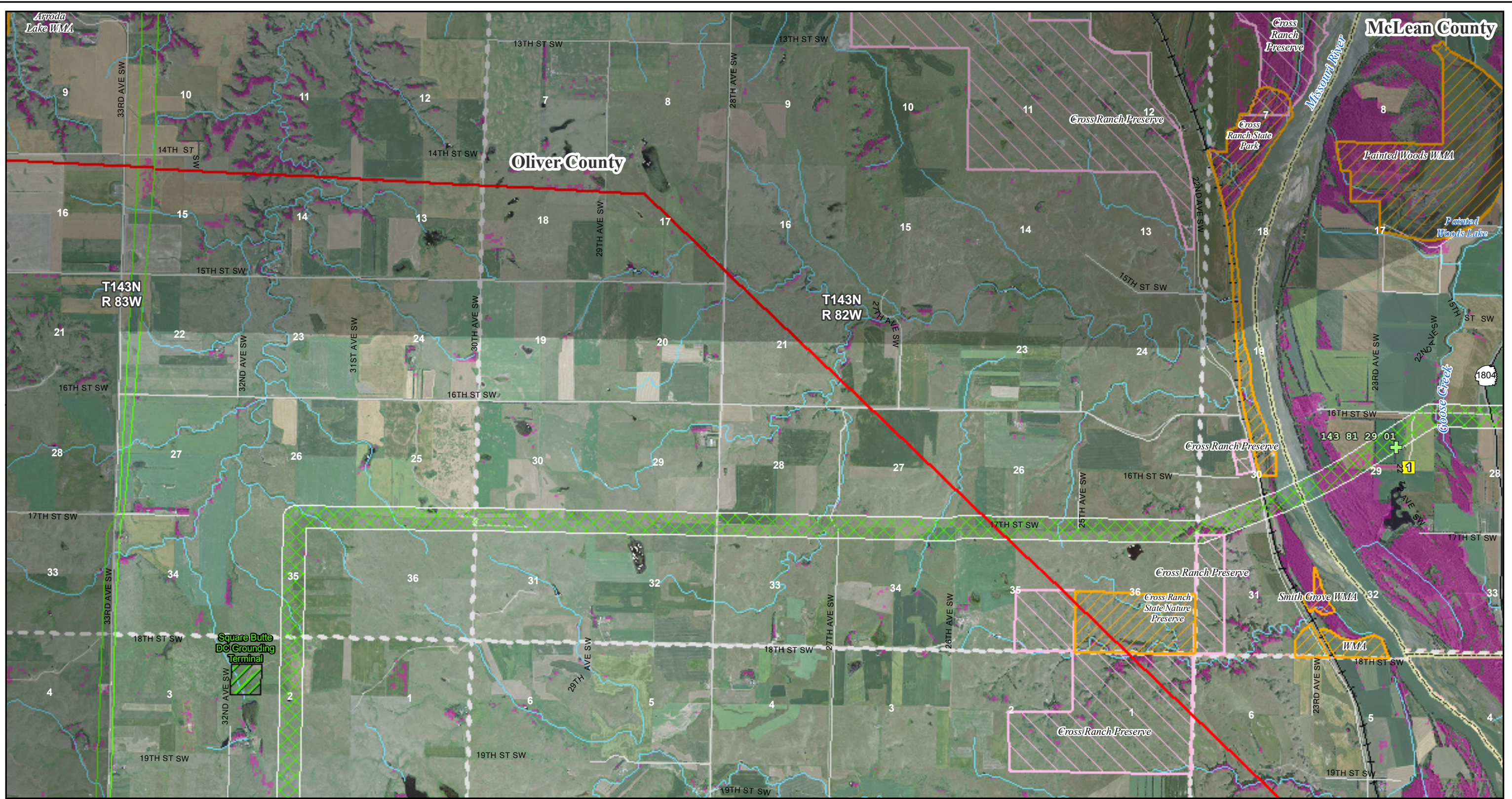


Figure 2

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Aerial photography published by National Agriculture Imagery Program (NAIP), 2009.

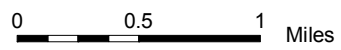
*Figures limited to areas with raptor nests or bird sitings



Center to Grand Forks Project

Minnkota Power
MPC COOPERATIVE, INC.

Scale 1:50,000



April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

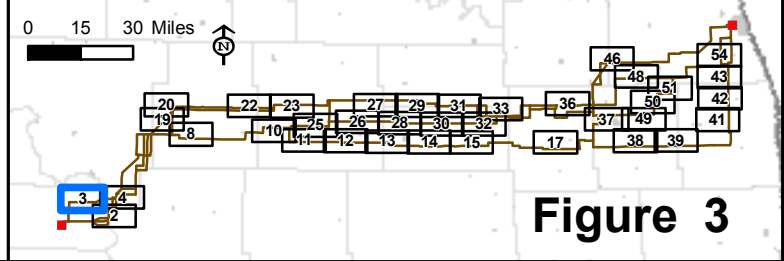
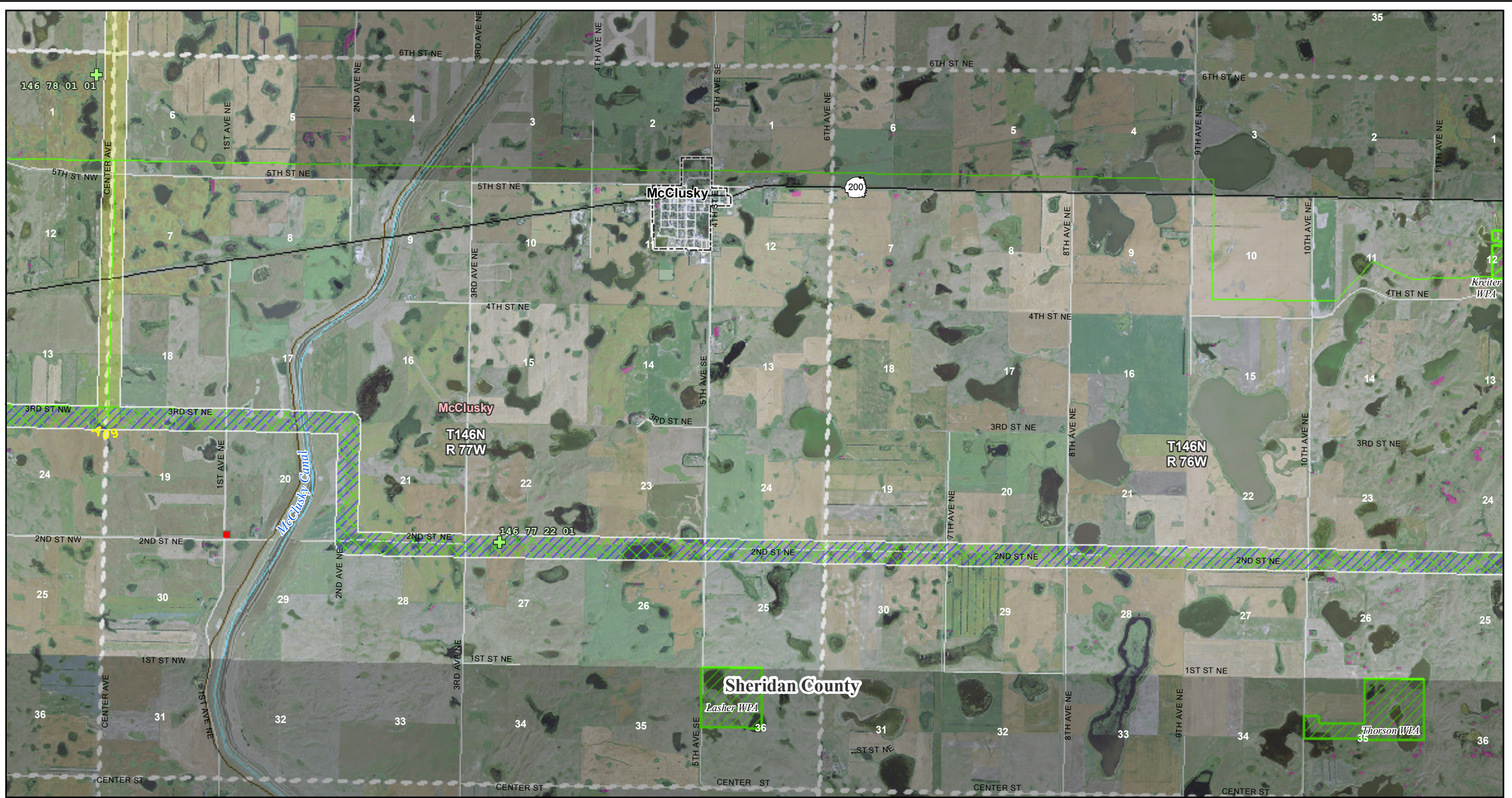


Figure 3

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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

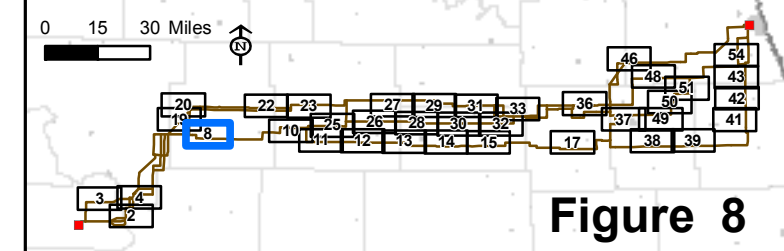
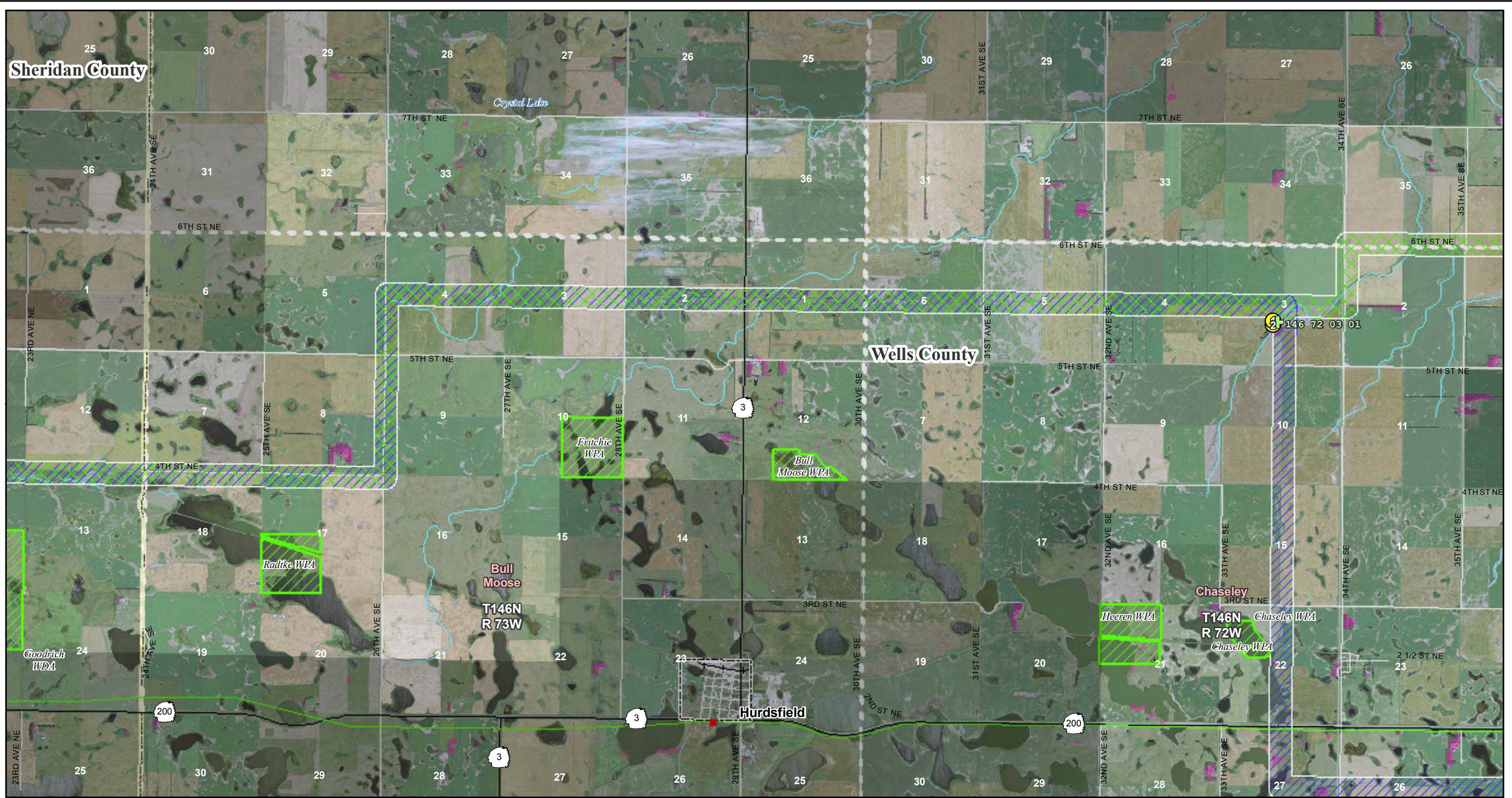


Figure 8

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Aerial photography published by National Agriculture Imagery Program (NAIP), 2009.

*Figures limited to areas with raptor nests or bird sitings



Center to Grand Forks Project

Minnkota Power
MPC COOPERATIVE, INC.

Scale 1:50,000
0 0.5 1 Miles

April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative
- Perched Bald Eagle
- Soaring Bald Eagles
- + Bald Eagle Nest
- + Possible Raptor Stick Nest
- Hawk Observation
- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC
- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

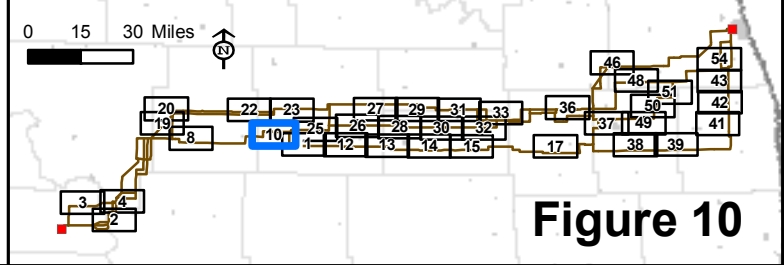
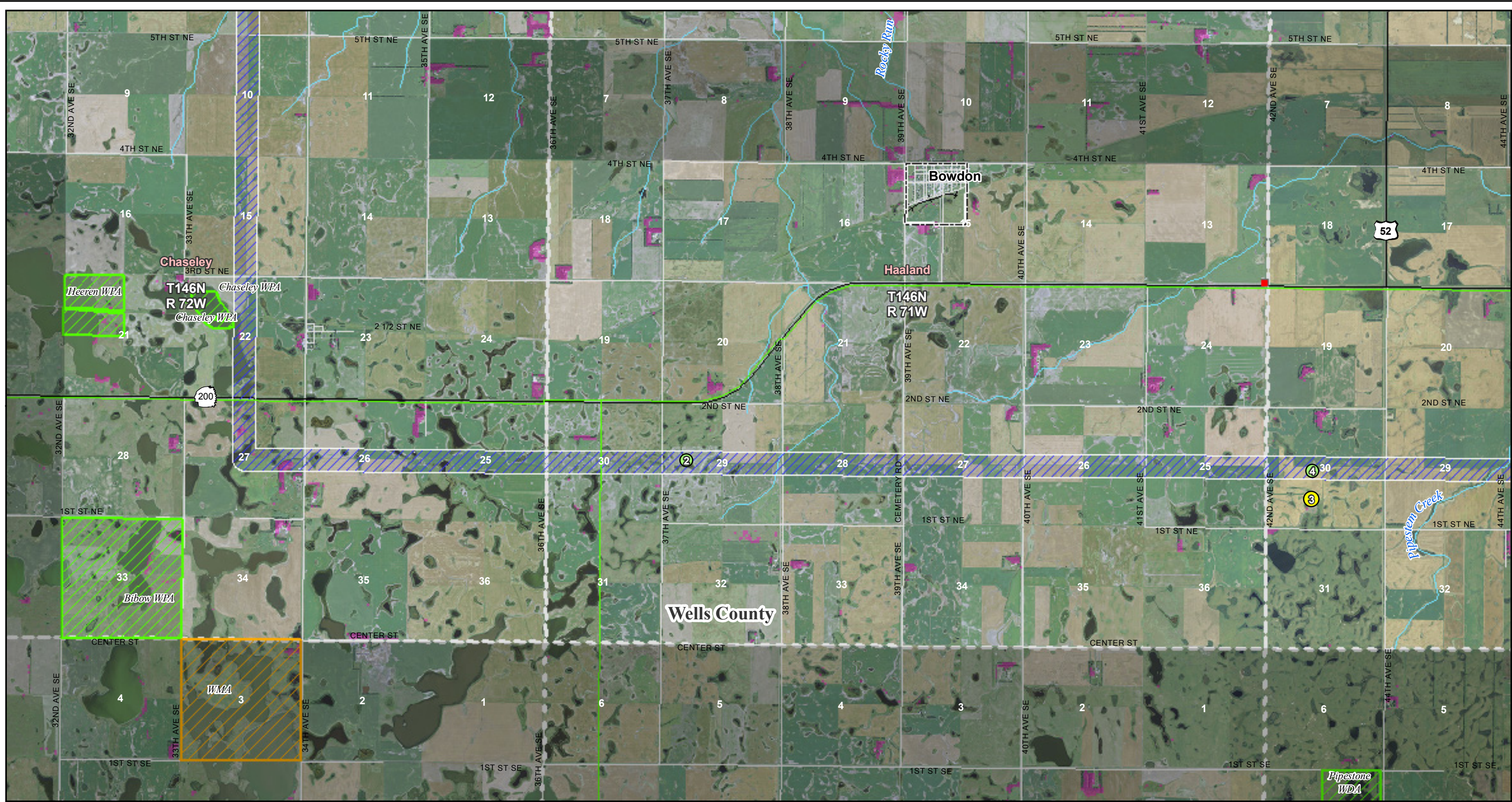


Figure 10

Map Document: (\\mspe-gis-files\gis\proj\minnkota\110900\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM

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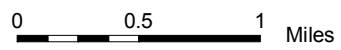
*Figures limited to areas with raptor nests or bird sitings



Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000



April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

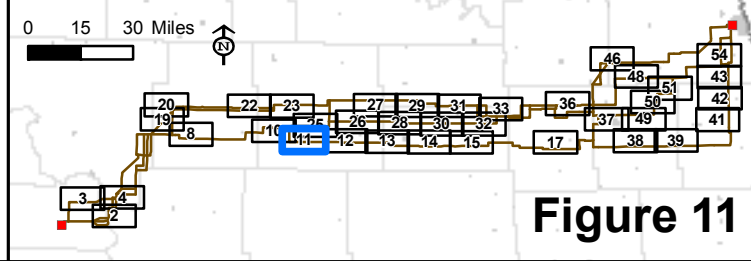
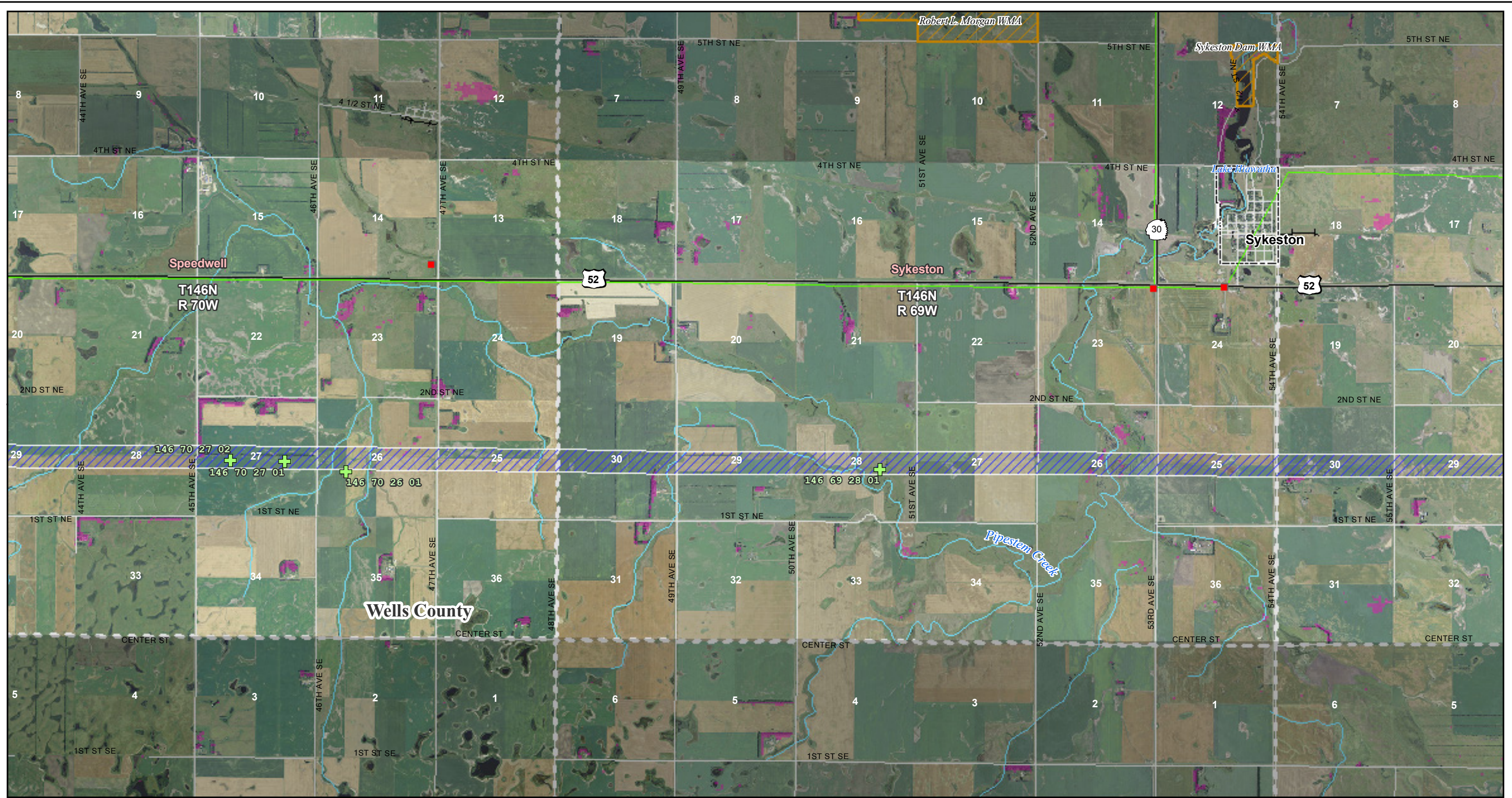


Figure 11

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000
0 0.5 1 Miles

April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative
- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation
- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC
- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

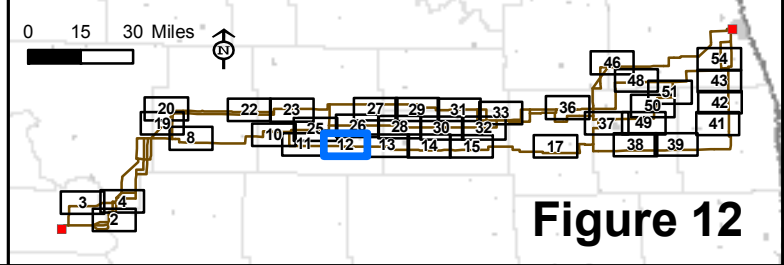
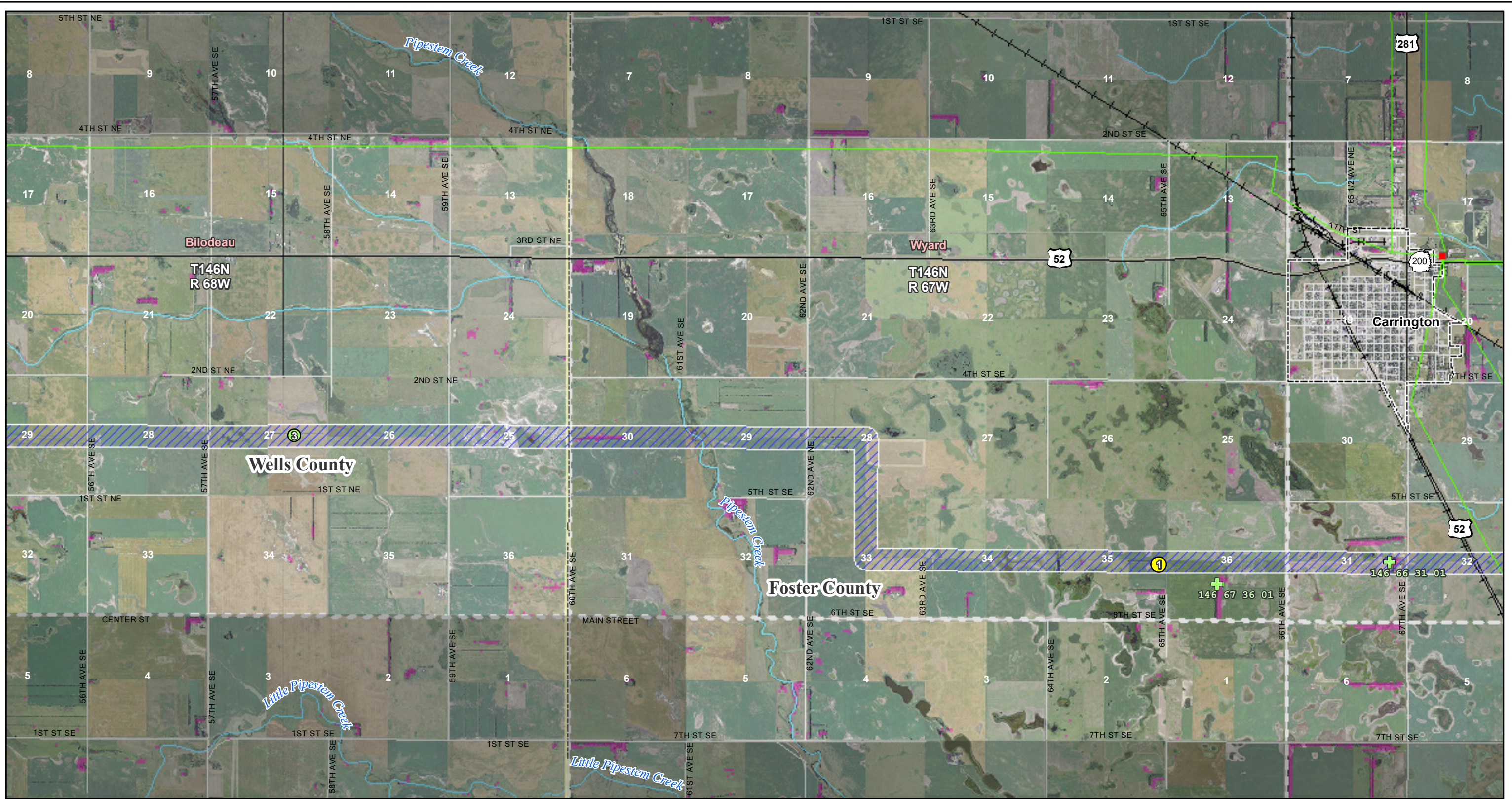


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Aerial photography published by National Agriculture Imagery Program (NAIP), 2009.

*Figures limited to areas with raptor nests or bird sitings



Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3

- Segment Alternative

- Perched Bald Eagle

- Soaring Bald Eagles

- Bald Eagle Nest

- Possible Raptor Stick Nest

- Hawk Observation

- Substation

- 400 kV DC

- 345 kV AC

- 250 kV DC

- 230 kV AC

- 115 kV or less AC

- GAP Woodland

- River, Stream or Canal

- County Boundary

- PLSS Township Boundary

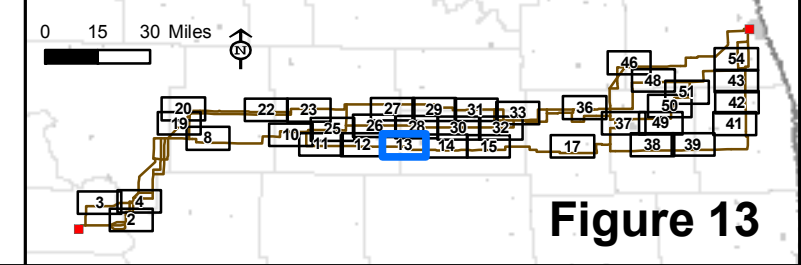
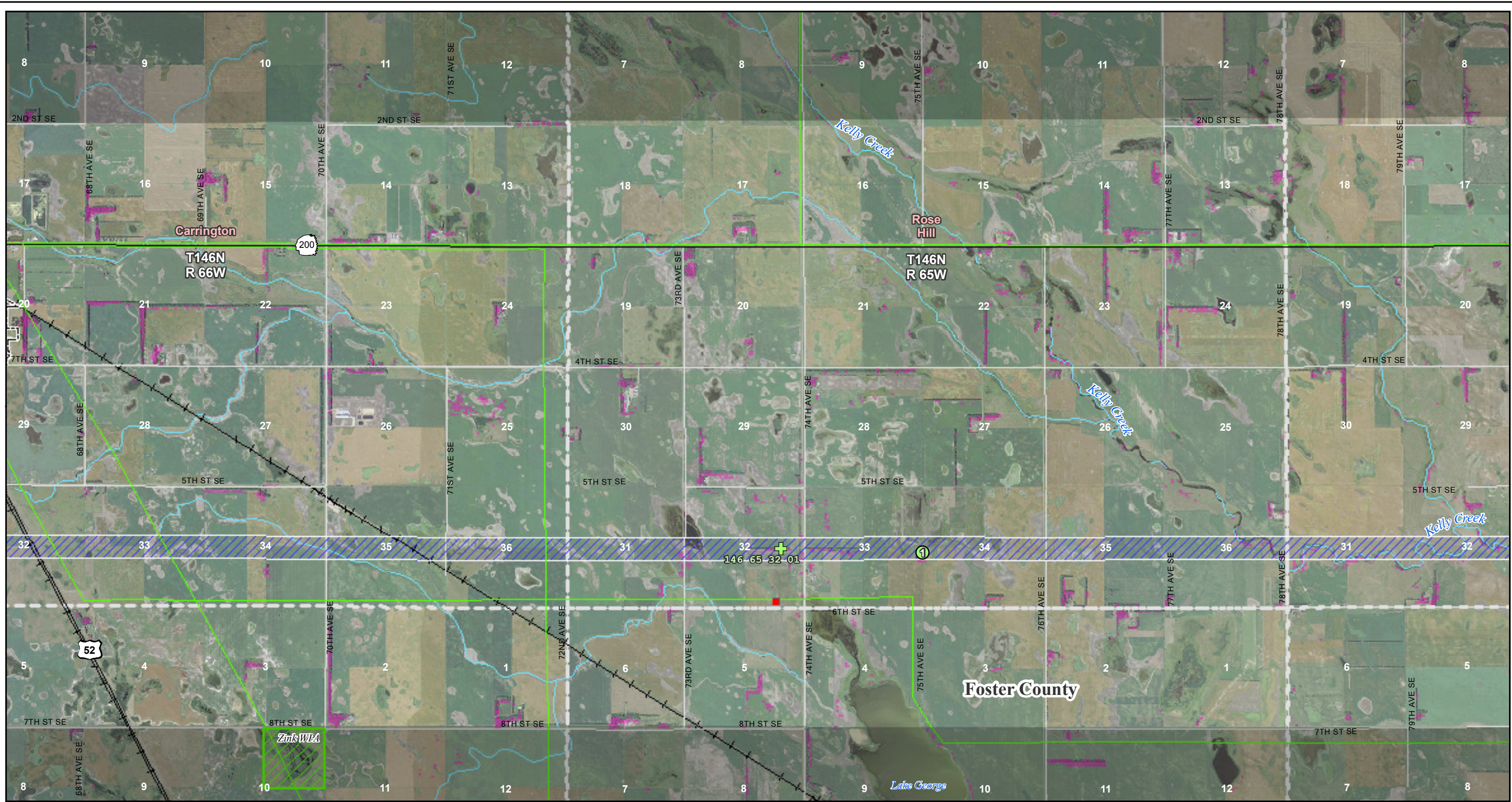


Figure 13

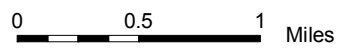
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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000



April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

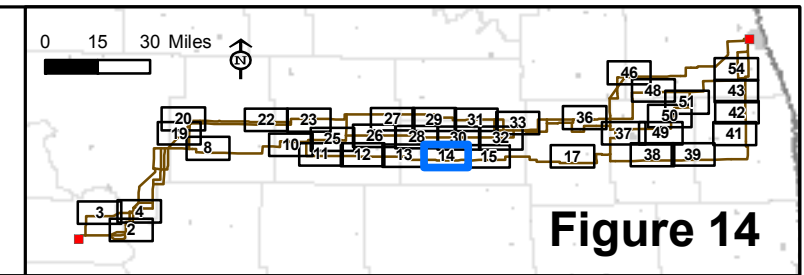
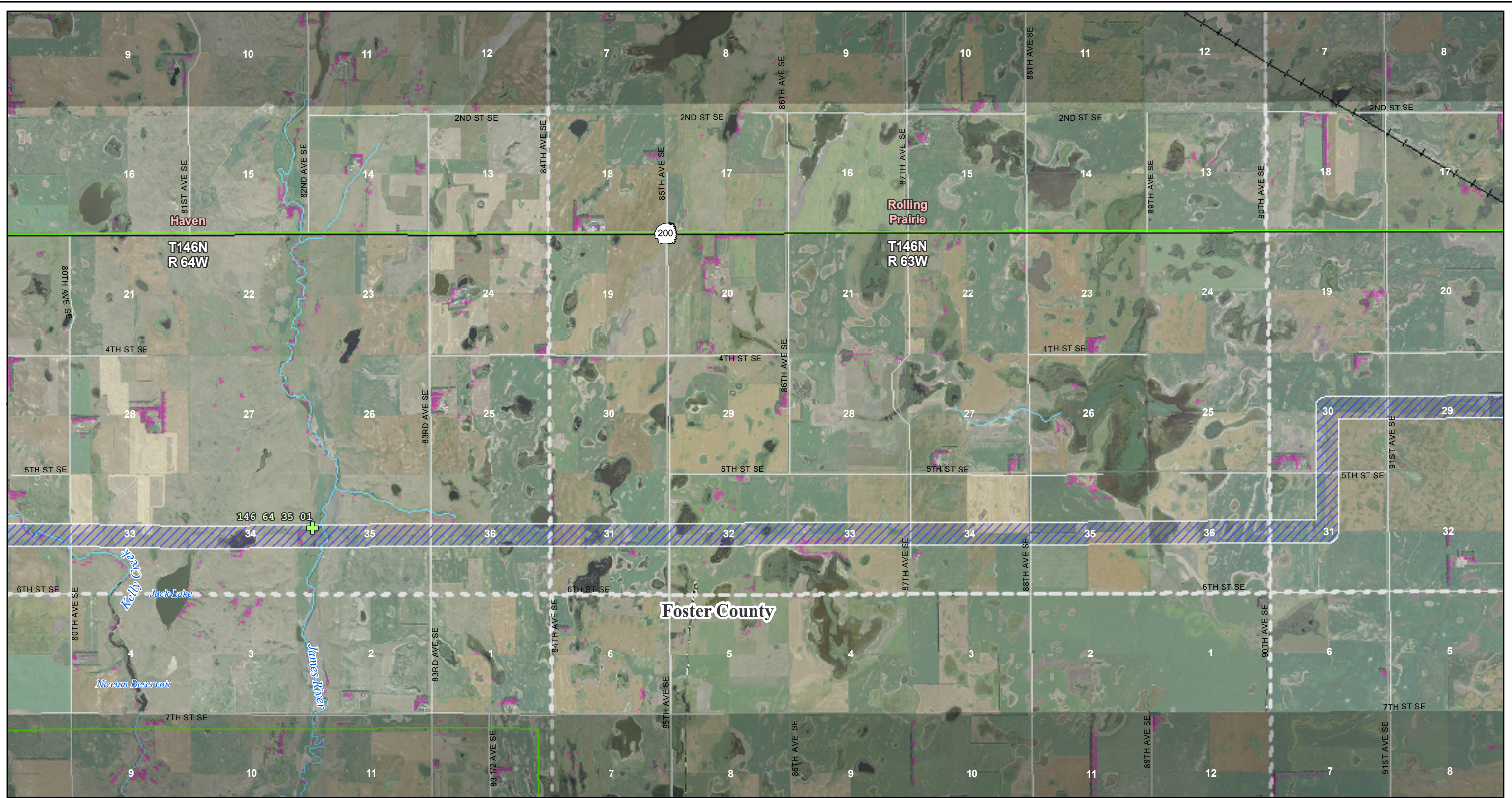


Figure 14

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

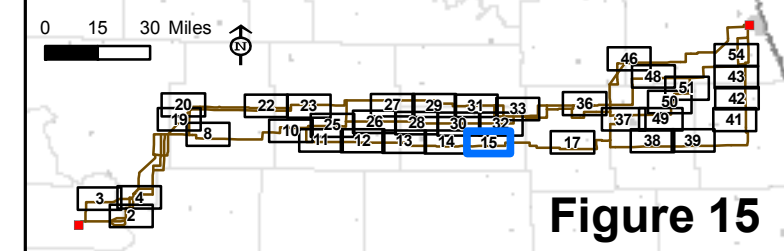
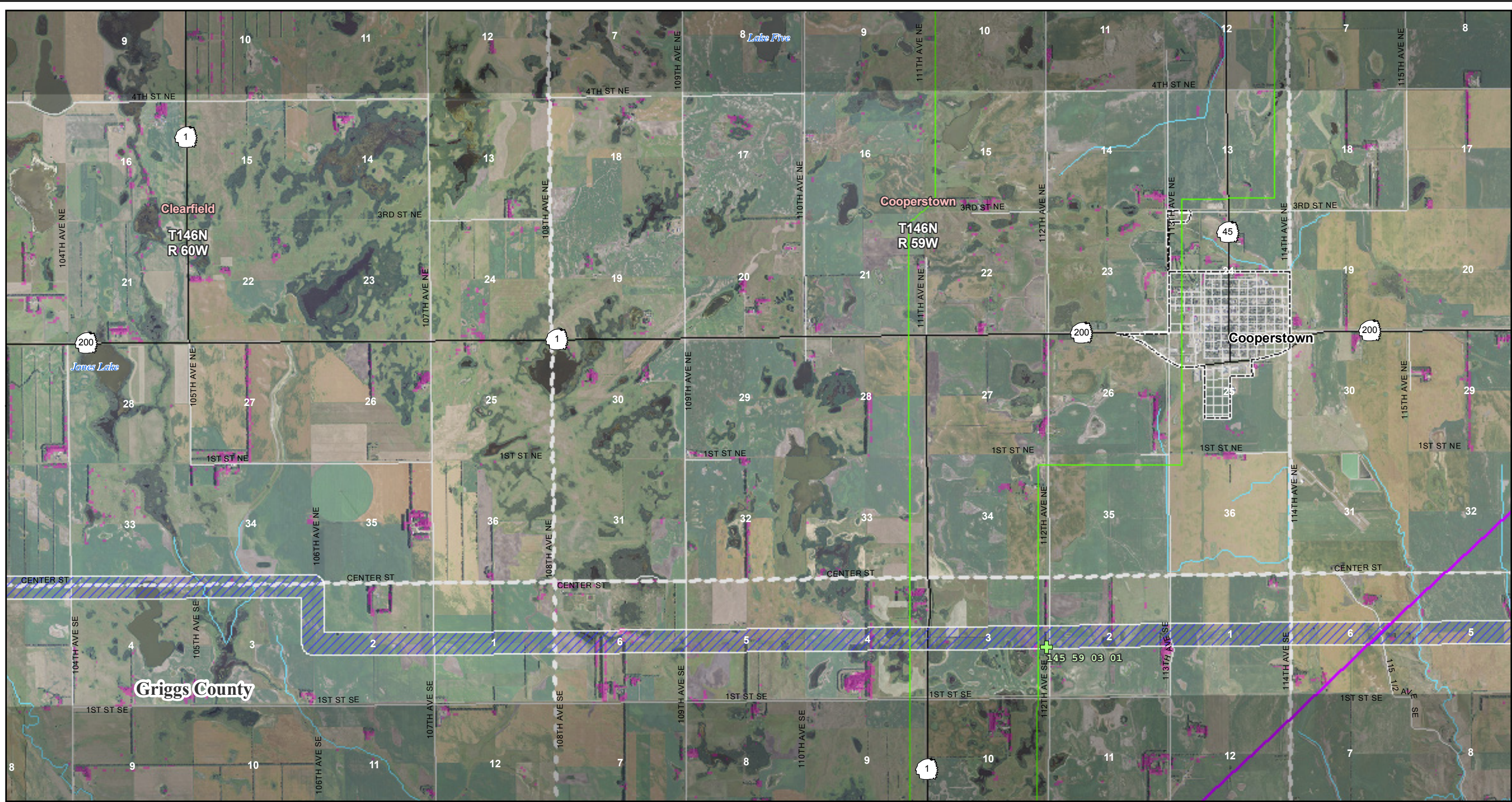


Figure 15

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Center to Grand Forks Project



Scale 1:50,000
0 0.5 1 Miles

April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

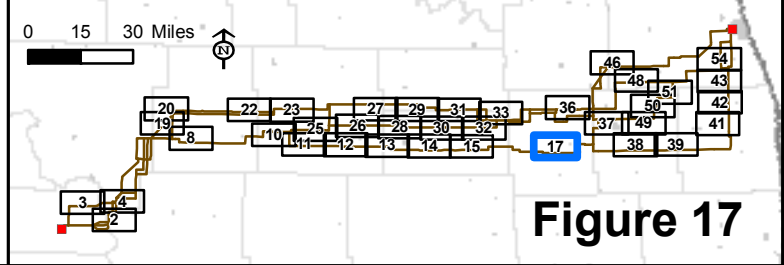
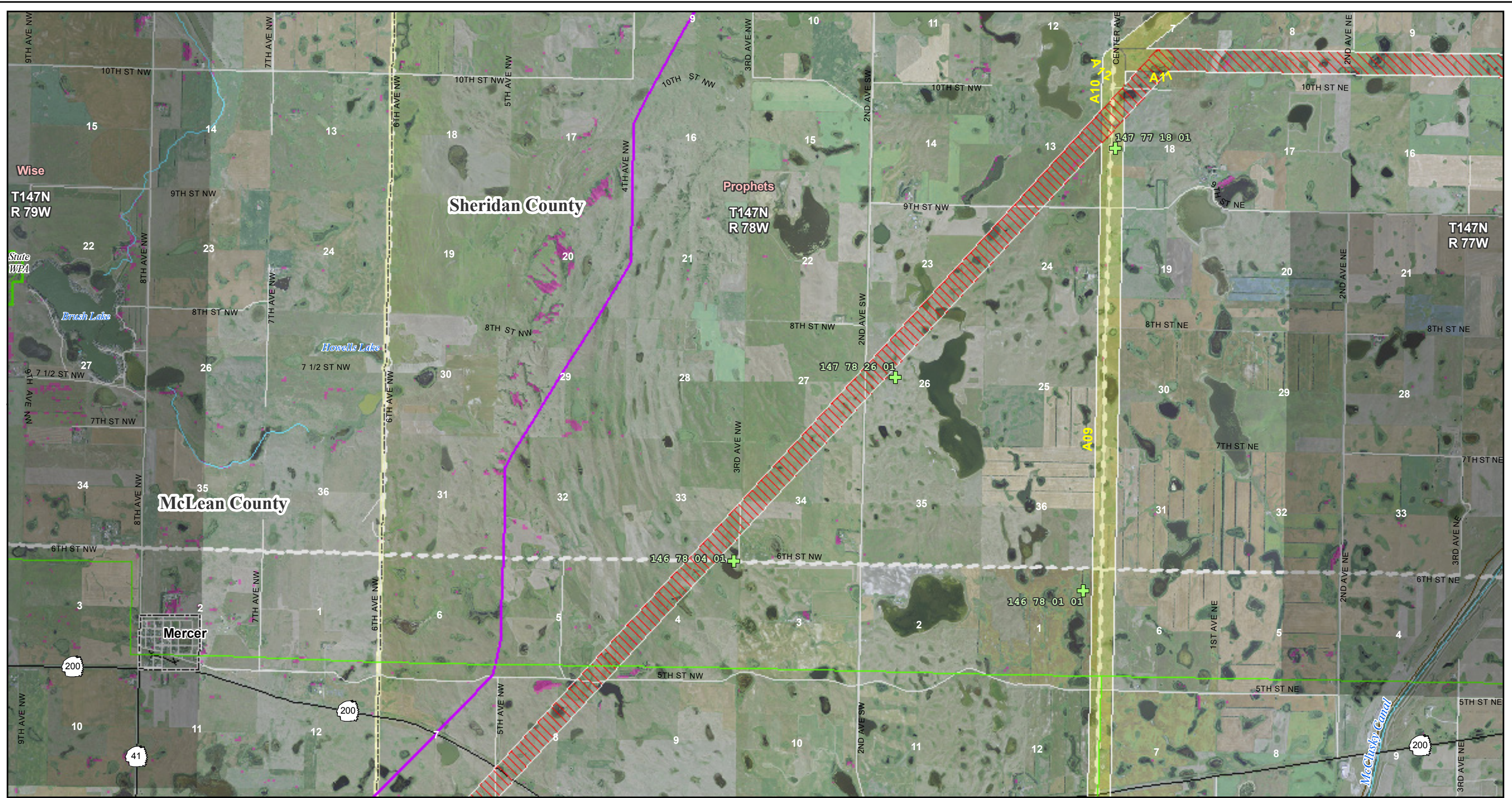


Figure 17

Map Document: (\\mpe-gis-file\gis\proj\Minneapolis\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

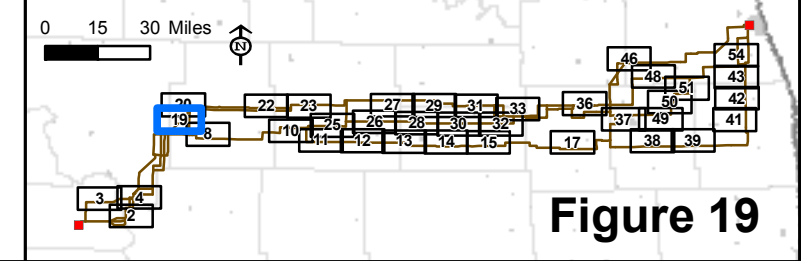
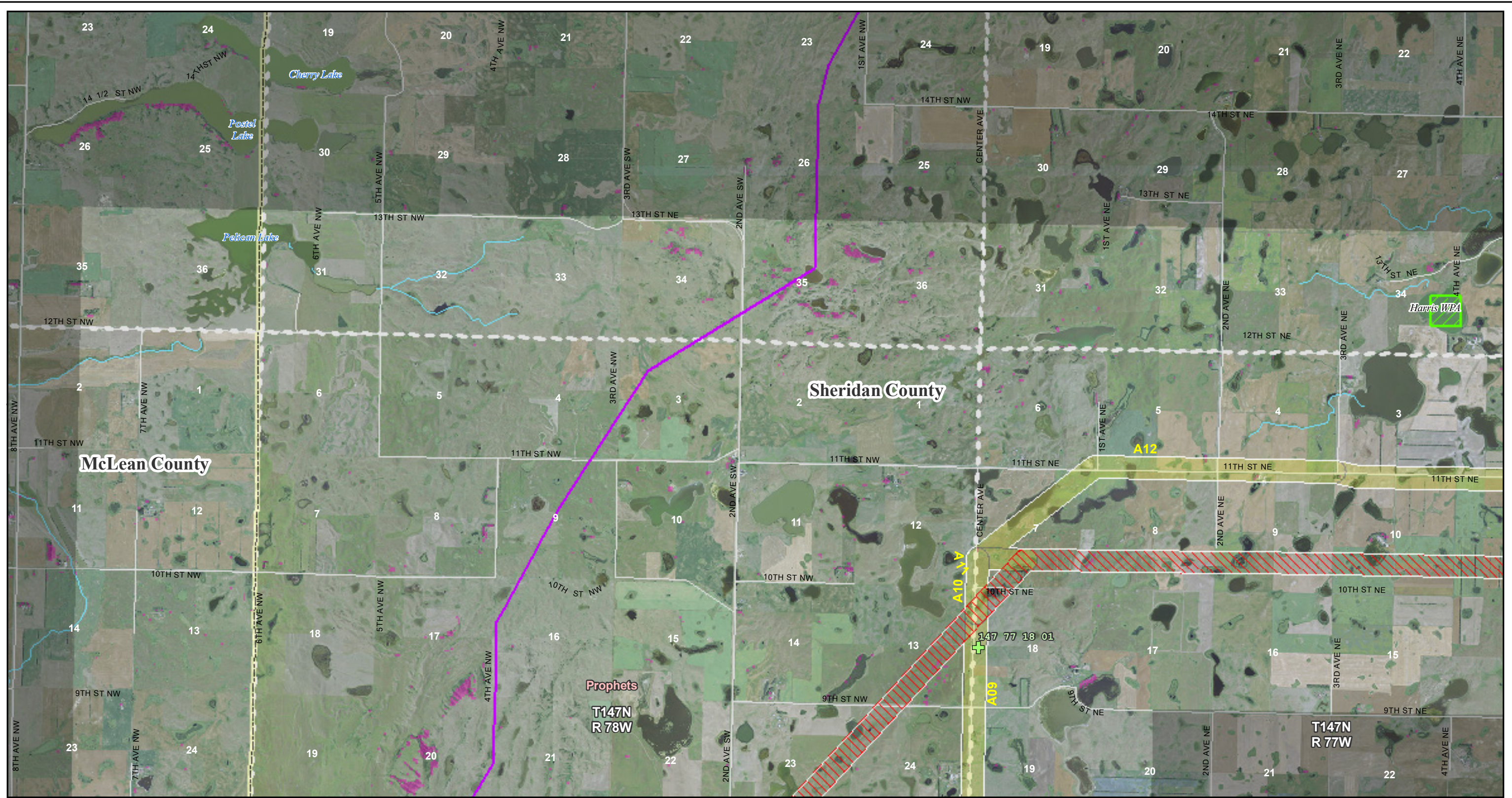


Figure 19

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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

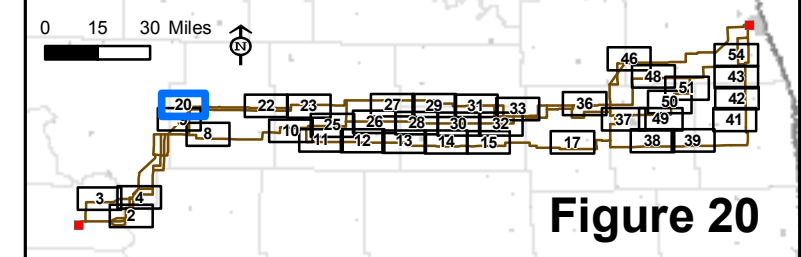


Figure 20

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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

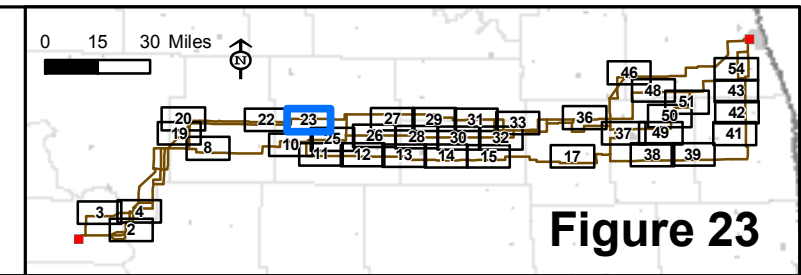
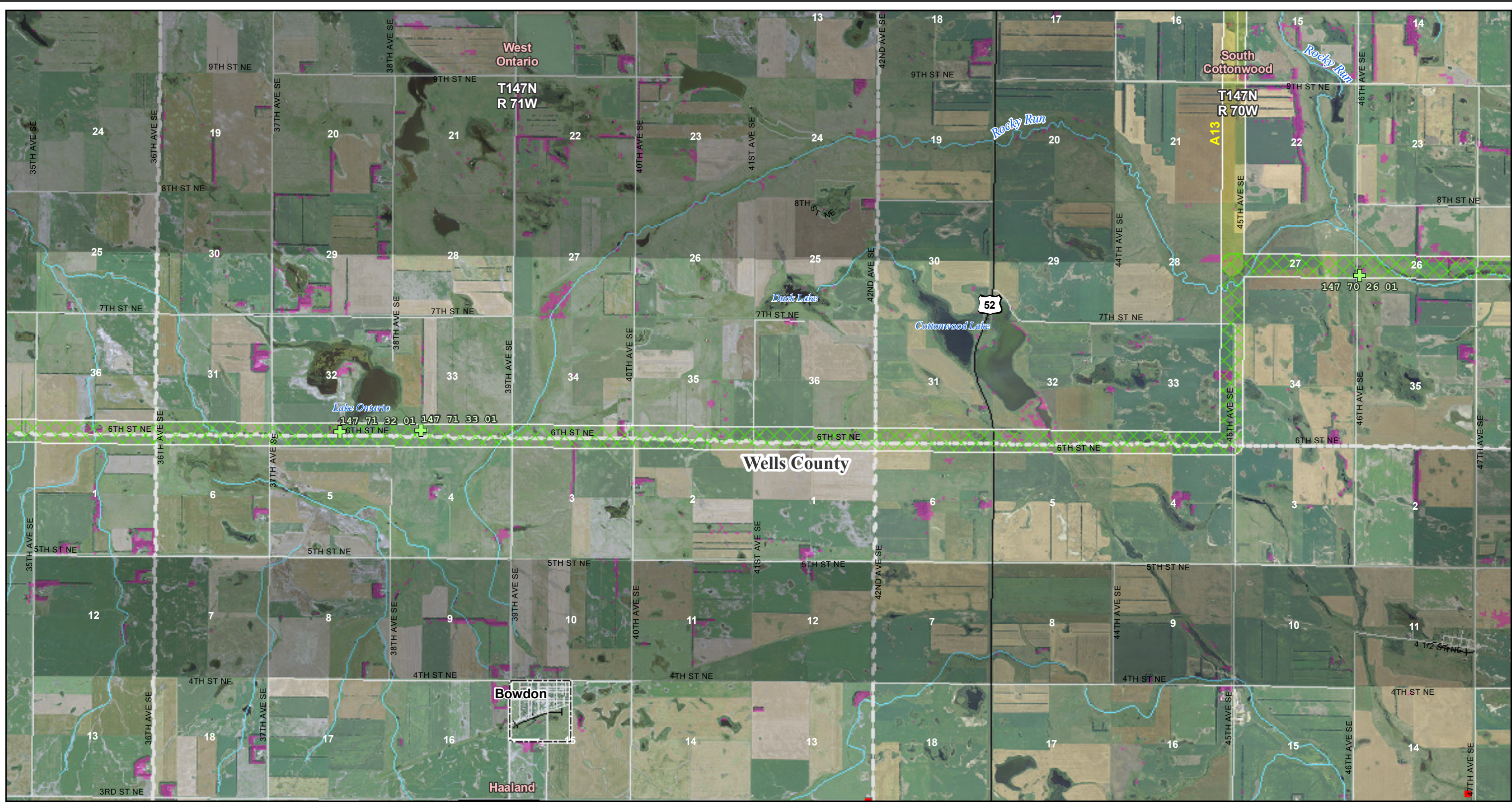


Figure 23

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Aerial photography published by National Agriculture Imagery Program (NAIP), 2009.

*Figures limited to areas with raptor nests or bird sitings



Center to Grand Forks Project



Scale 1:50,000
0 0.5 1 Miles

April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation
- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

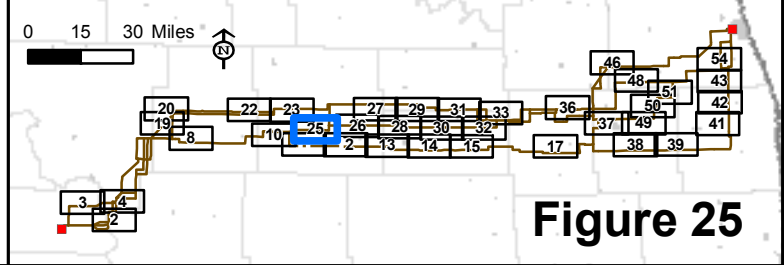


Figure 25

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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000



April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

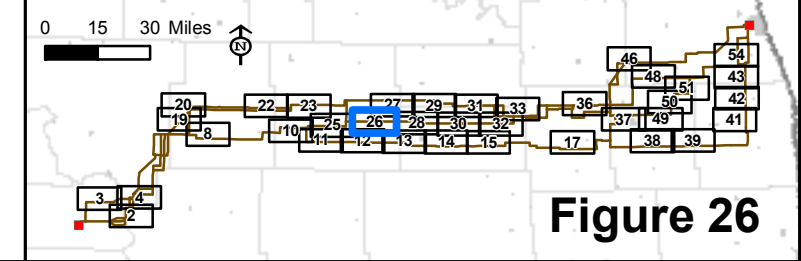
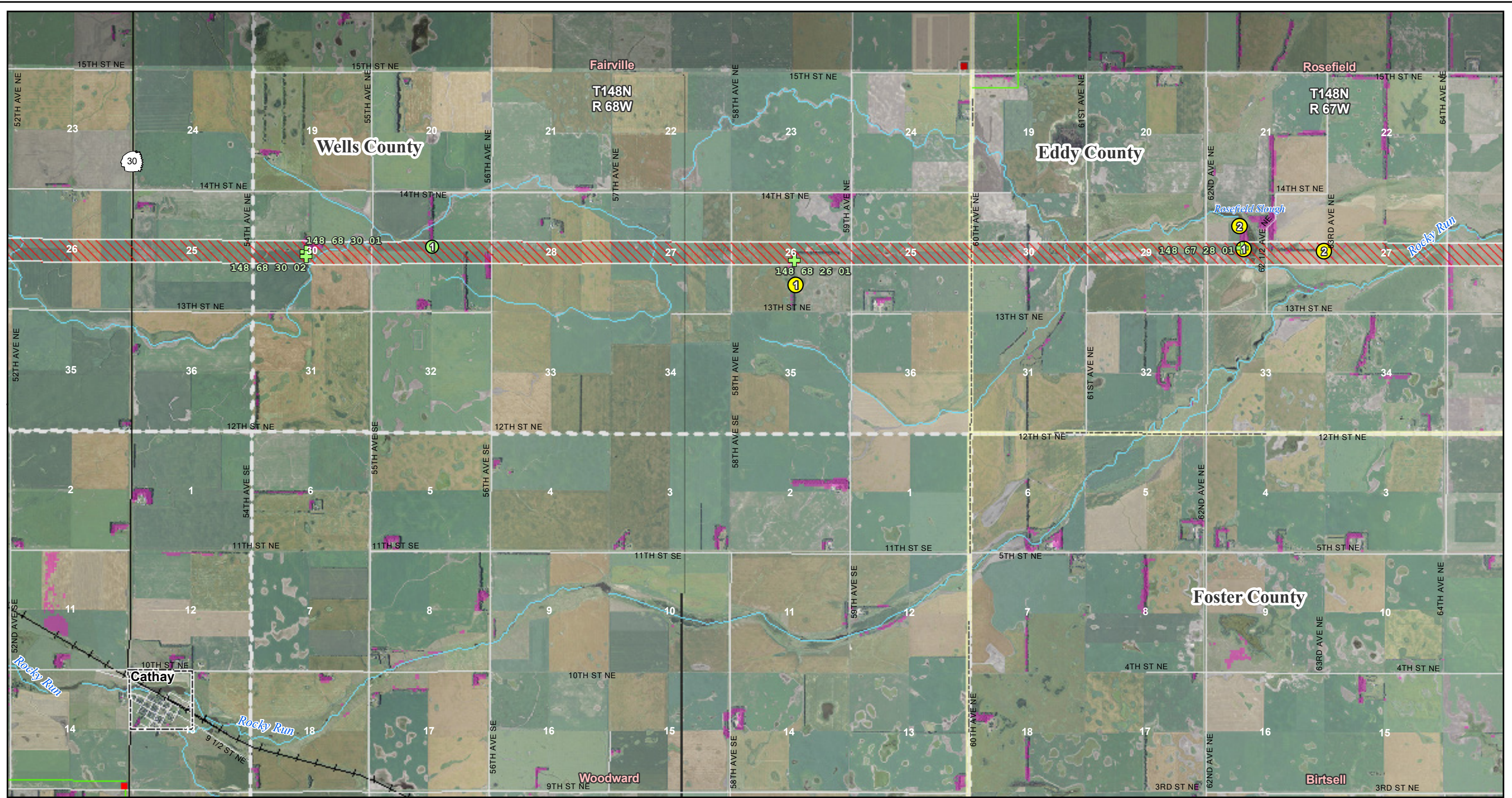


Figure 26

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Center to Grand Forks Project

Minnkota Power
MPC COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

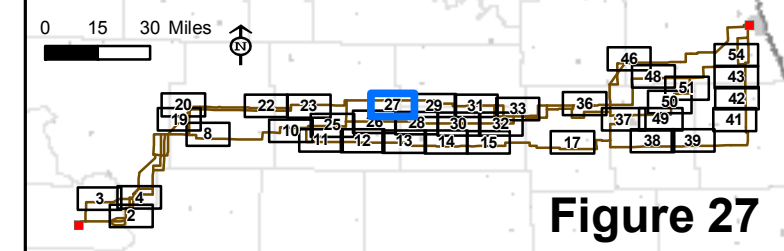
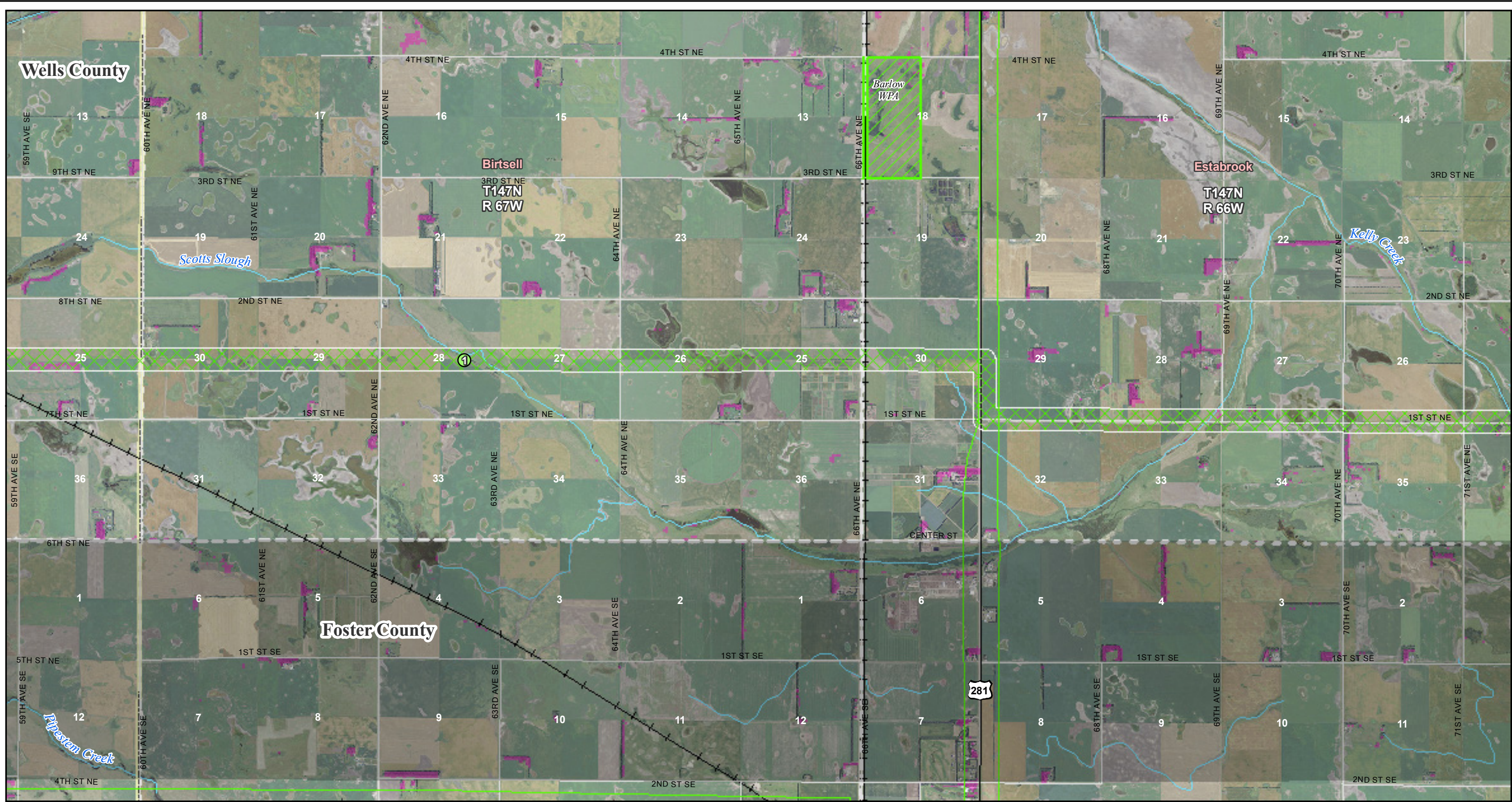


Figure 27

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Center to Grand Forks Project



Scale 1:50,000
0 0.5 1 Miles

April 2010

- | | | | |
|---------------------|----------------------------|-------------------|------------------------|
| Route 1 | Perched Bald Eagle | Substation | GAP Woodland |
| Route 2 | Soaring Bald Eagles | 400 kV DC | River, Stream or Canal |
| Route 3 | Bald Eagle Nest | 345 kV AC | County Boundary |
| Segment Alternative | Possible Raptor Stick Nest | 250 kV DC | PLSS Township Boundary |
| | Hawk Observation | 230 kV AC | |
| | | 115 kV or less AC | |

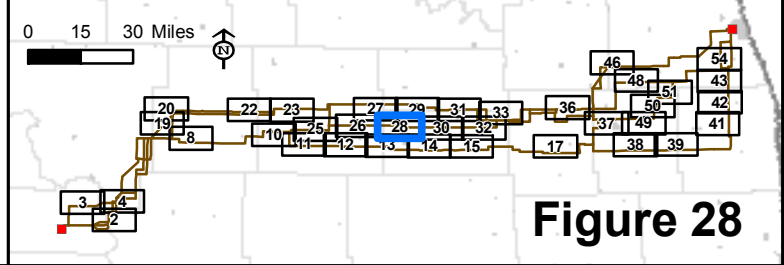
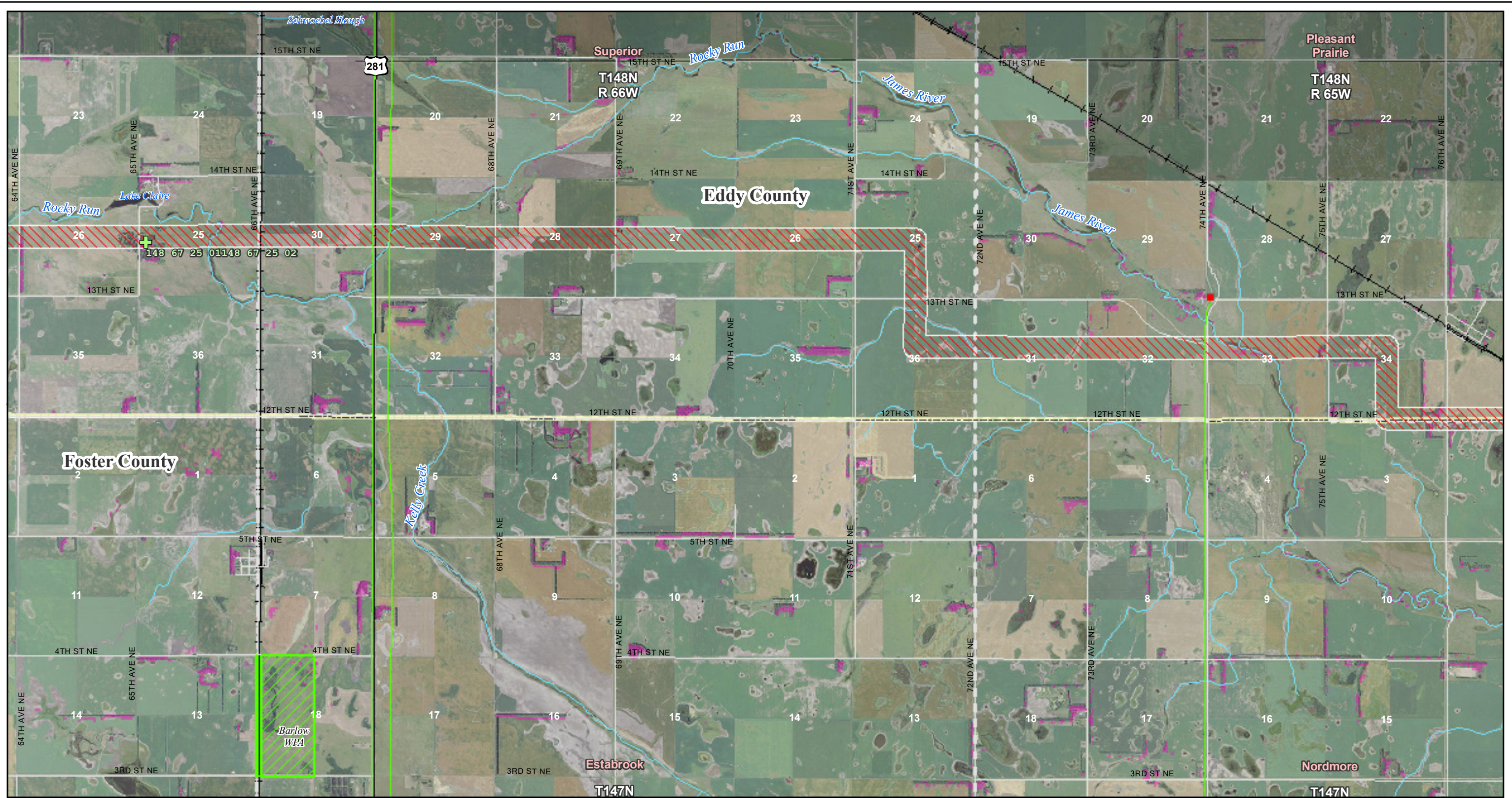


Figure 28

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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

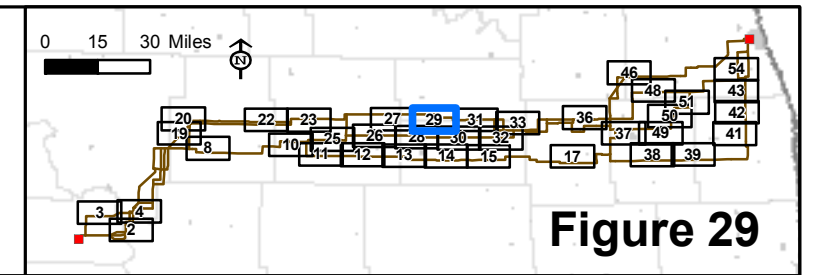
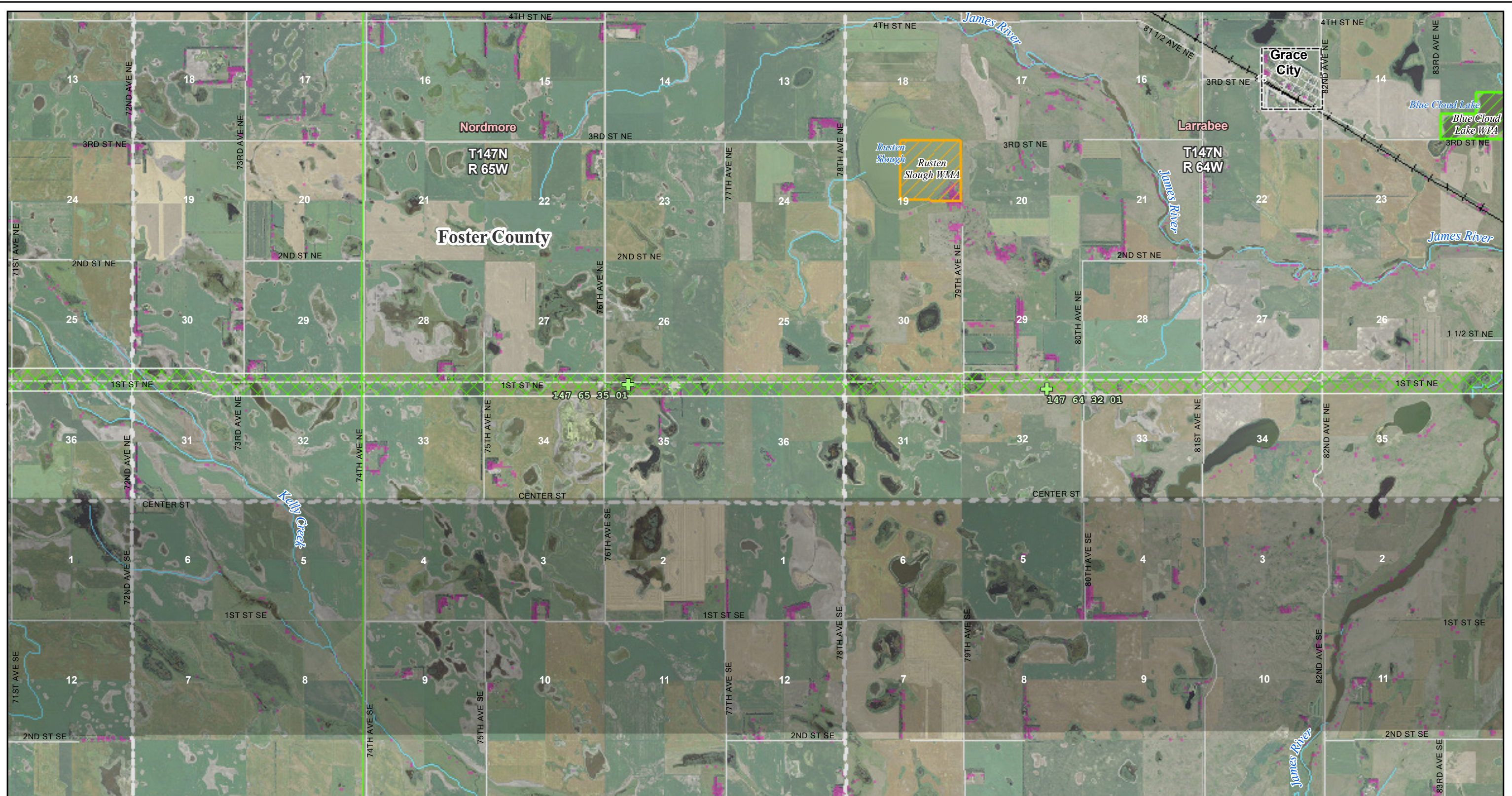


Figure 29

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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles



April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

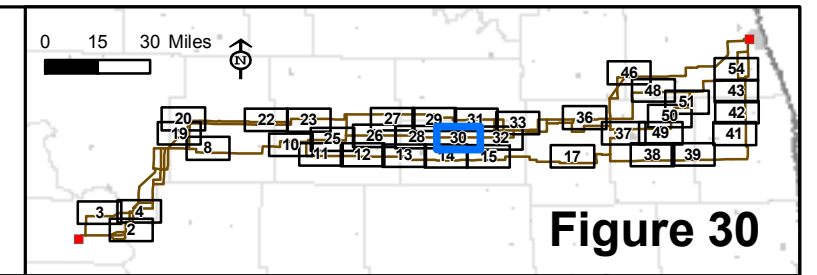
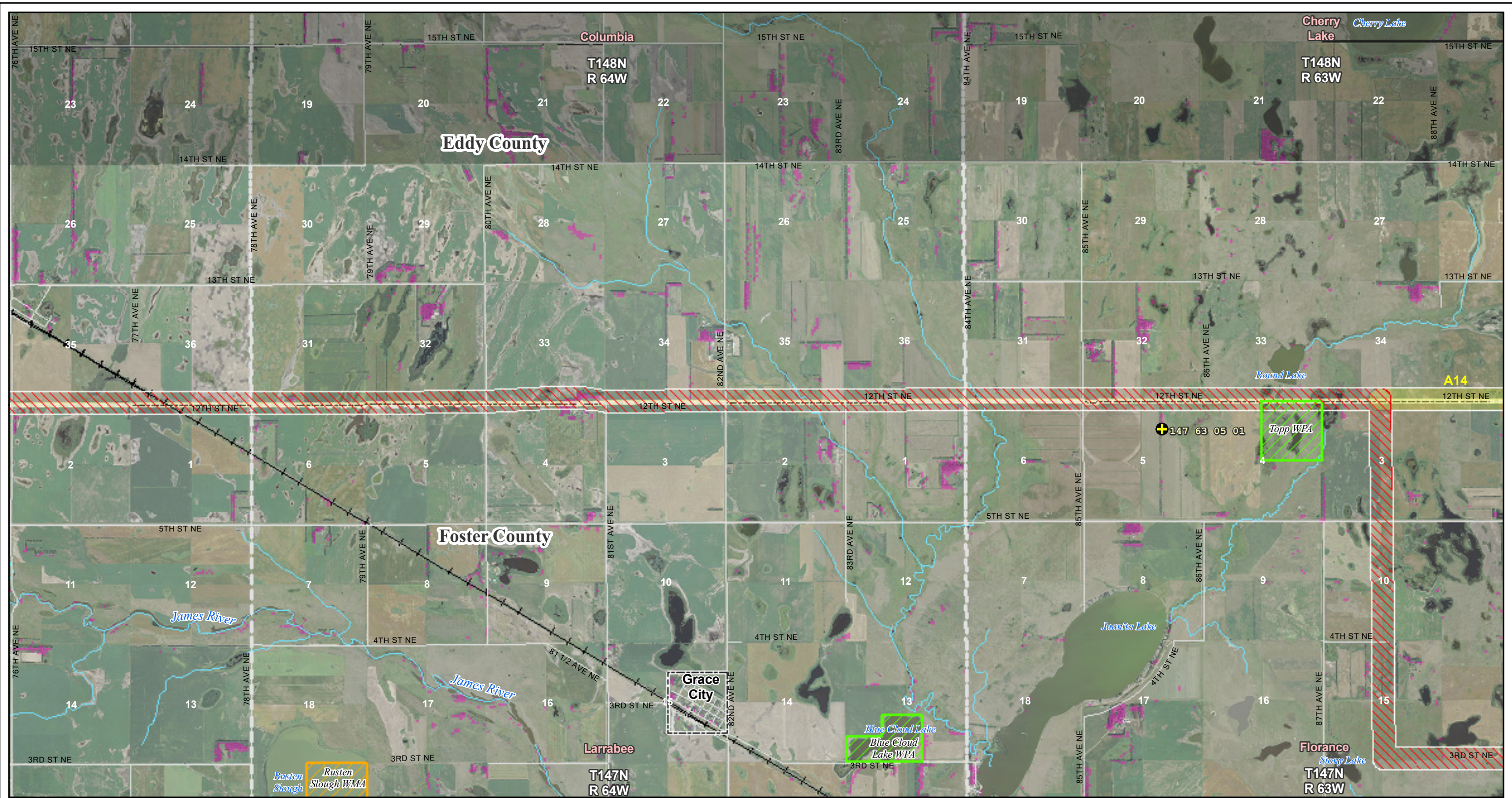


Figure 30

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Center to Grand Forks Project



Scale 1:50,000
0 0.5 1 Miles

April 2010

- | | | | |
|---------------------|----------------------------|-------------------|------------------------|
| Route 1 | Perched Bald Eagle | Substation | GAP Woodland |
| Route 2 | Soaring Bald Eagles | 400 kV DC | River, Stream or Canal |
| Route 3 | Bald Eagle Nest | 345 kV AC | County Boundary |
| Segment Alternative | Possible Raptor Stick Nest | 250 kV DC | PLSS Township Boundary |
| | Hawk Observation | 230 kV AC | |
| | | 115 kV or less AC | |

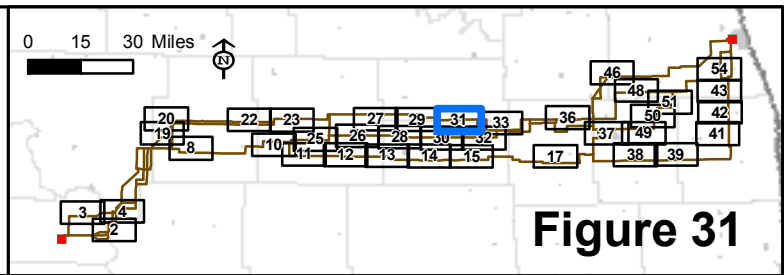
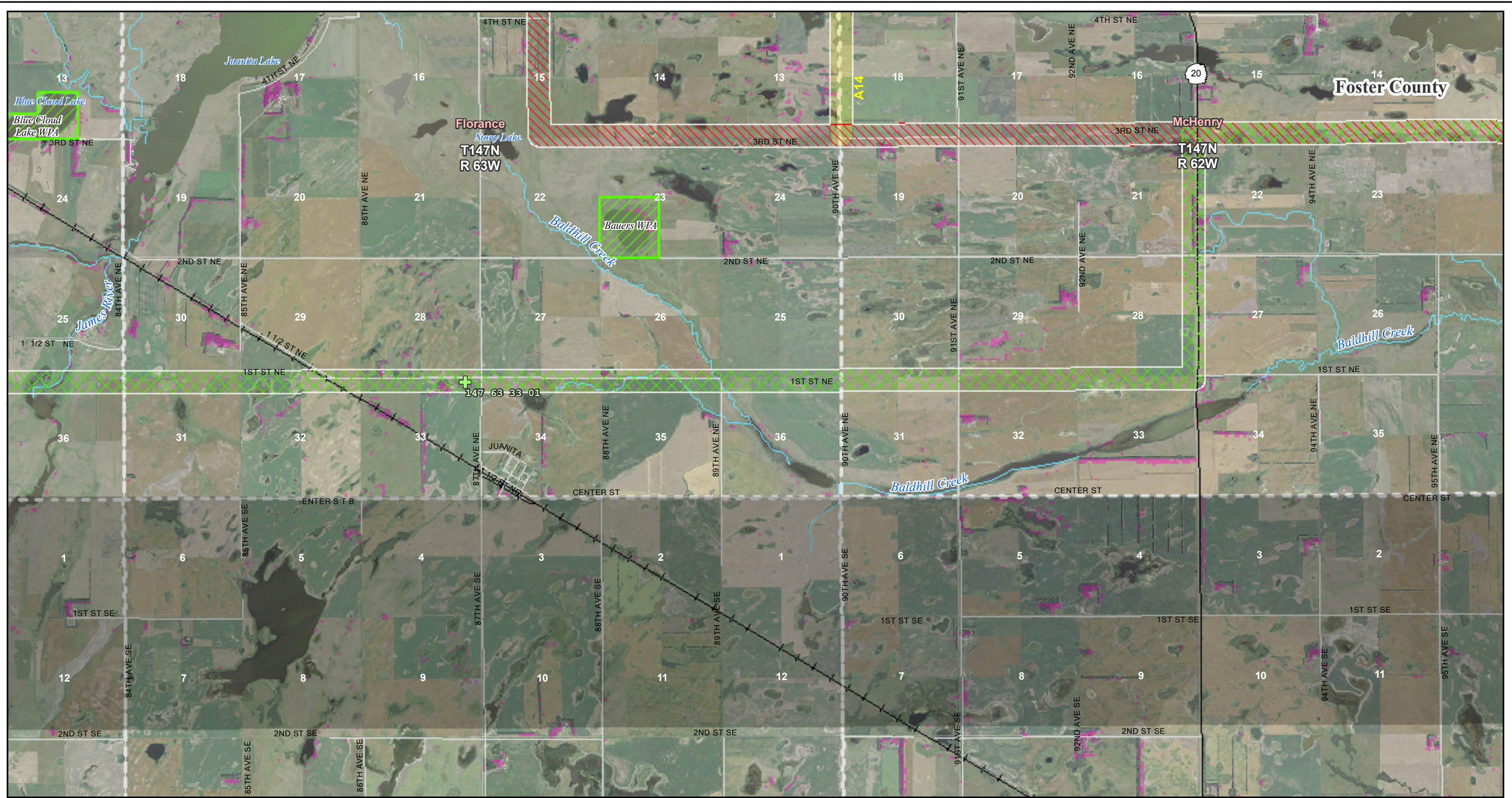


Figure 31

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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles



April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

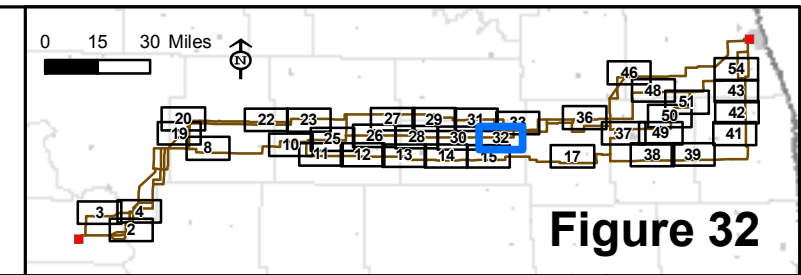
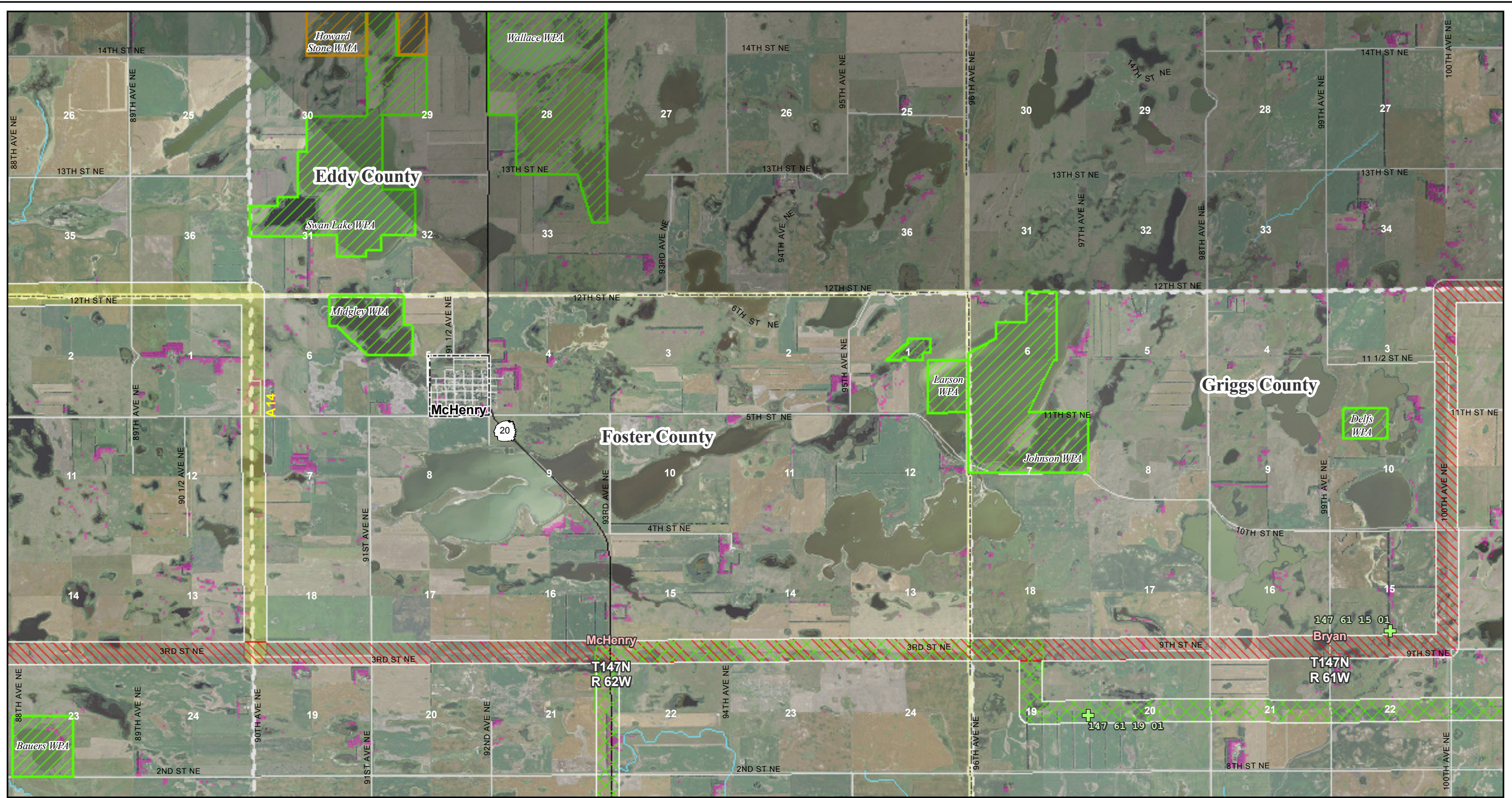


Figure 32

Map Document: (\\mapserver\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

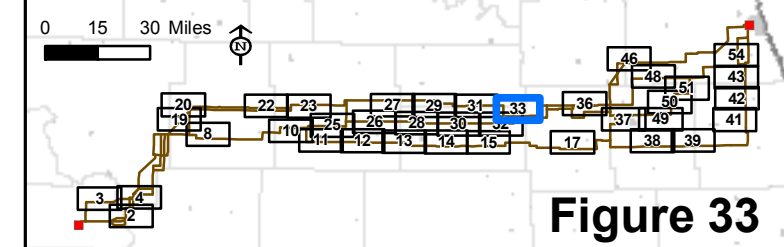
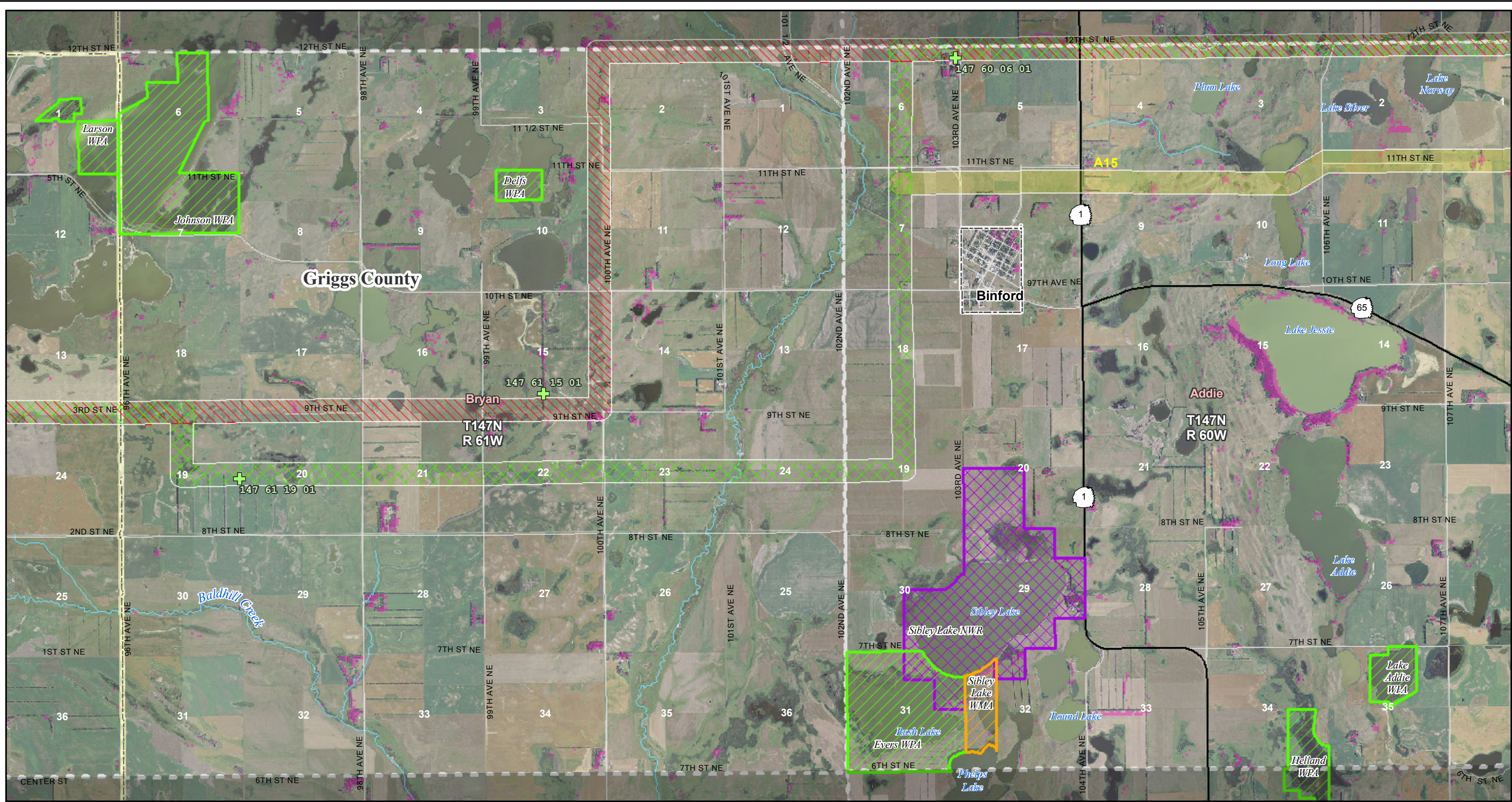


Figure 33

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\neests\CGF_11x17_50k_mp_neests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project



Scale 1:50,000
0 0.5 1 Miles

April 2010

- | | | | |
|---------------------|----------------------------|-------------------|------------------------|
| Route 1 | Perched Bald Eagle | Substation | GAP Woodland |
| Route 2 | Soaring Bald Eagles | 400 kV DC | River, Stream or Canal |
| Route 3 | Bald Eagle Nest | 345 kV AC | County Boundary |
| Segment Alternative | Possible Raptor Stick Nest | 250 kV DC | PLSS Township Boundary |
| | Hawk Observation | 230 kV AC | |
| | | 115 kV or less AC | |

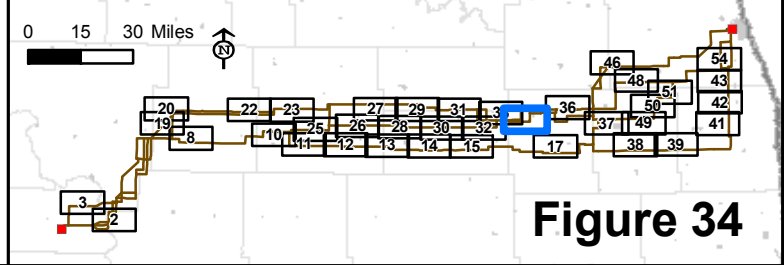
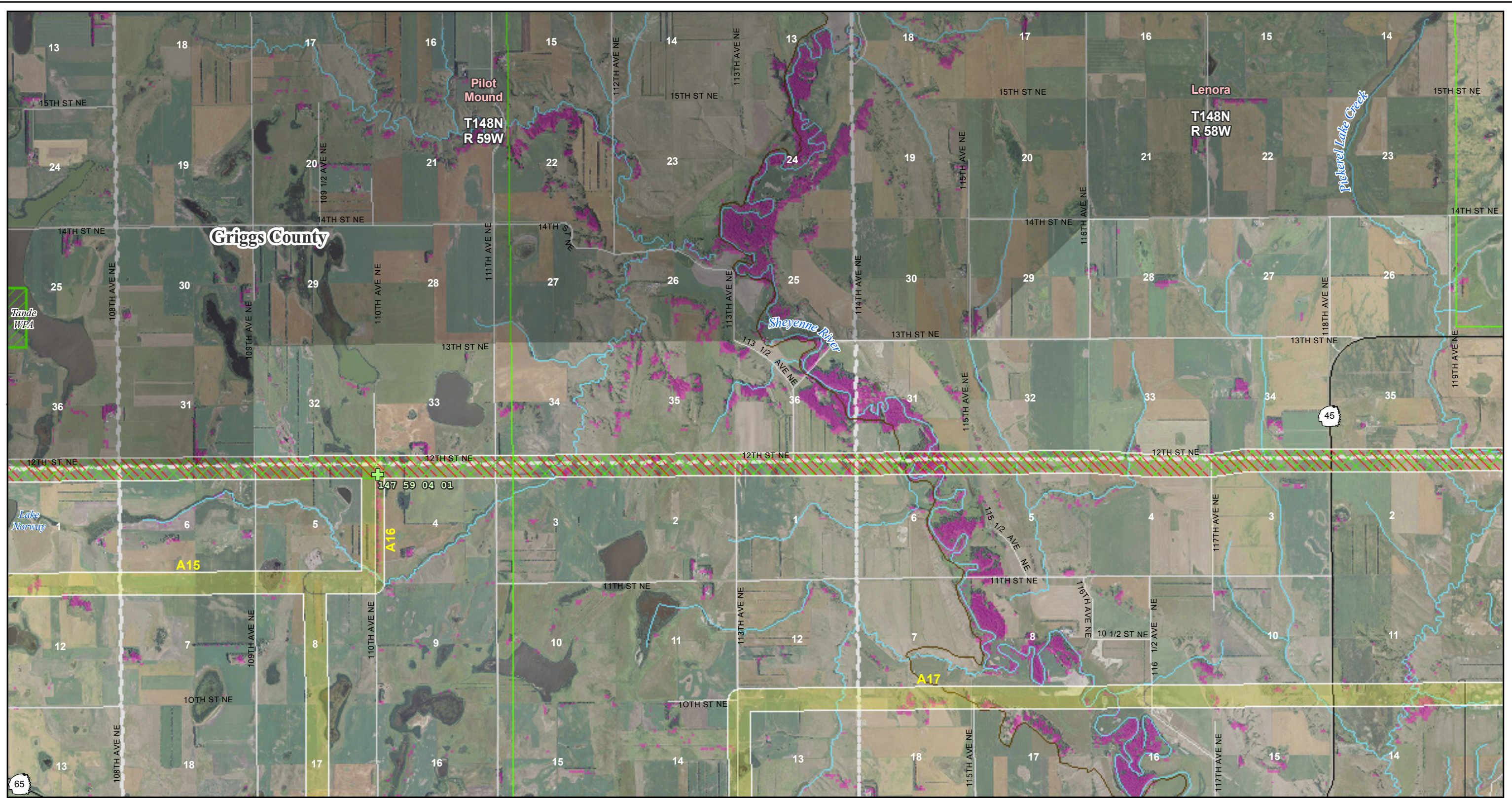


Figure 34

Map Document: (\\mspe-gis-file\gis\proj\Minneapolis\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM

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Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

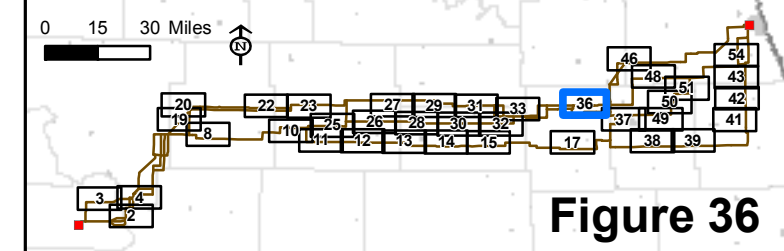
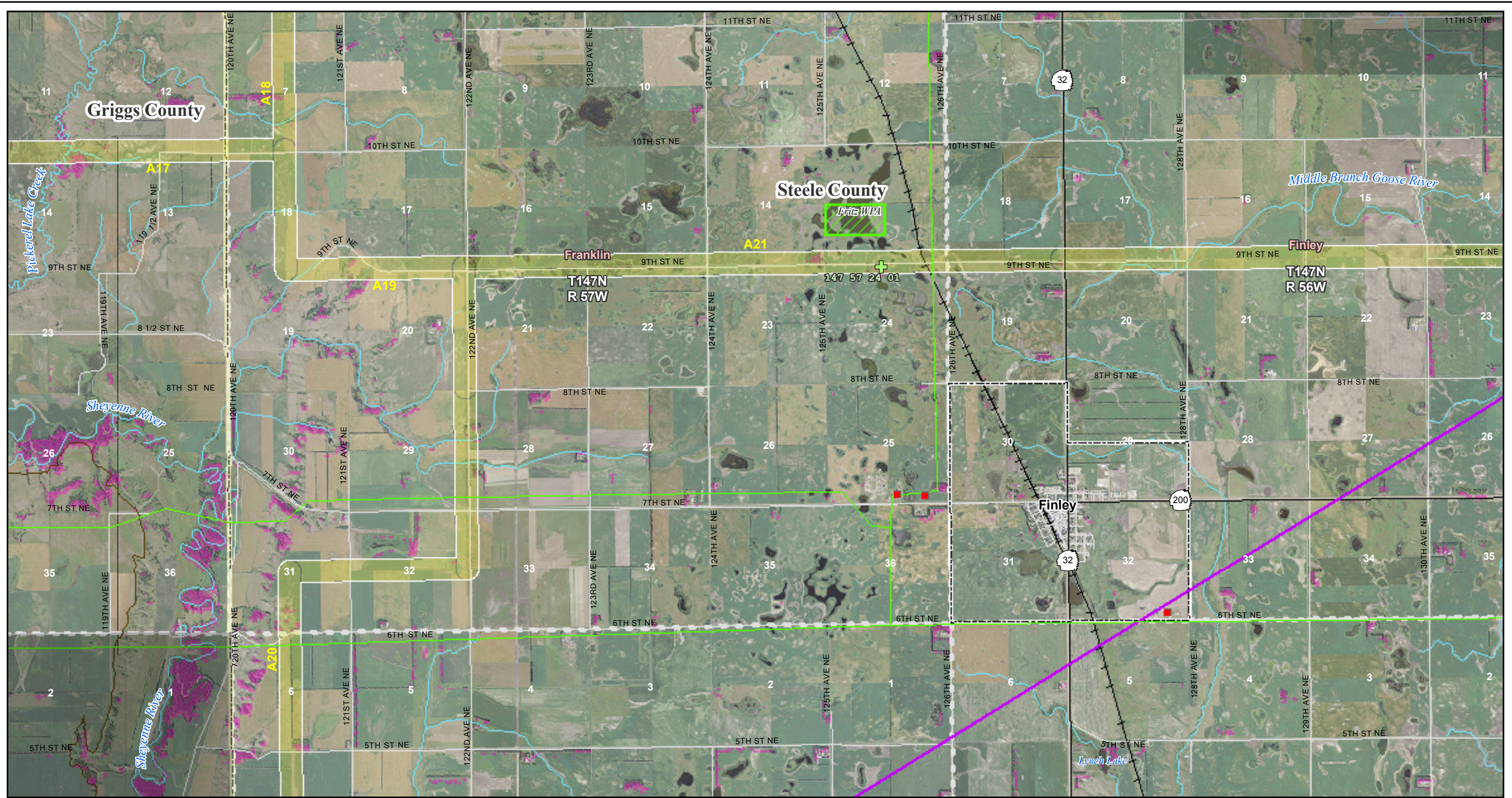


Figure 36

Map Document: (\\mpe-gis-filegis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project

Minnkota Power
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Scale 1:50,000

0 0.5 1 Miles



April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

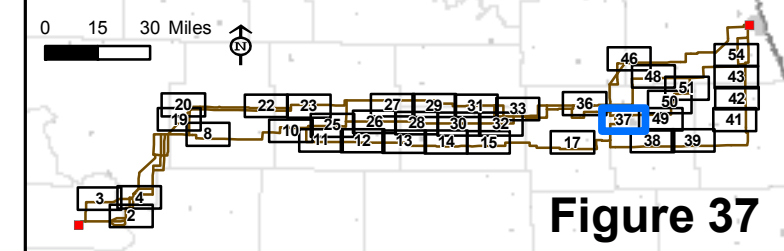
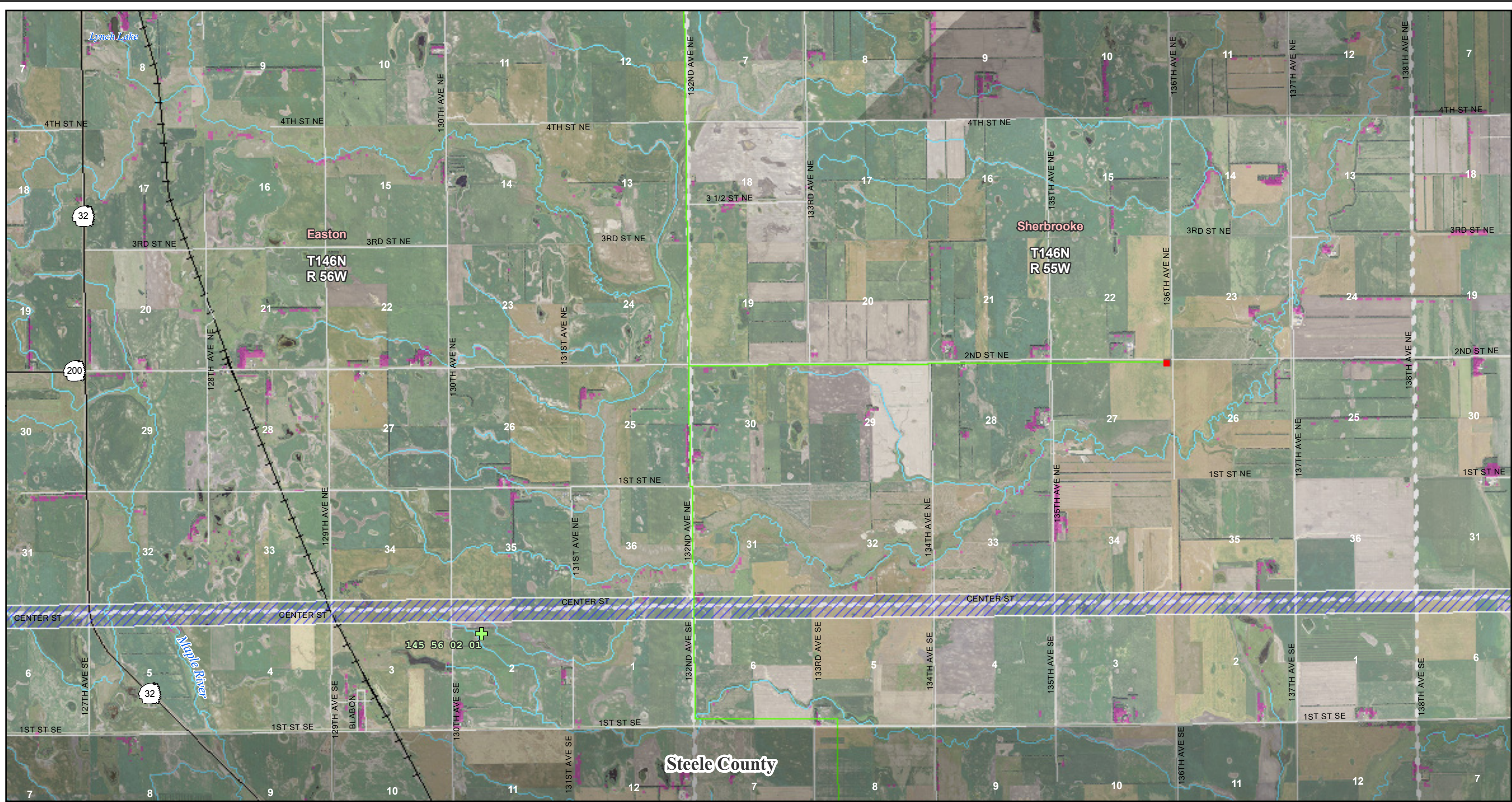


Figure 37

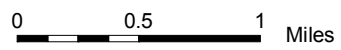
Map Document: (\\mspe-gis-file\gis\proj\Minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



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April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

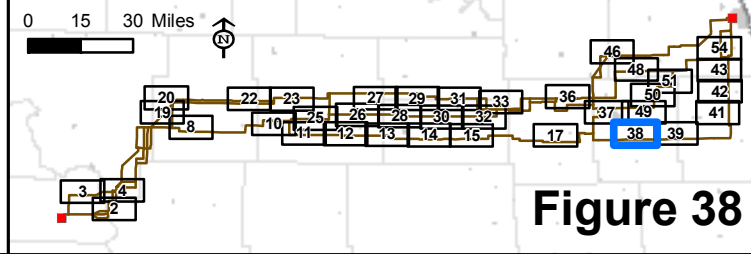
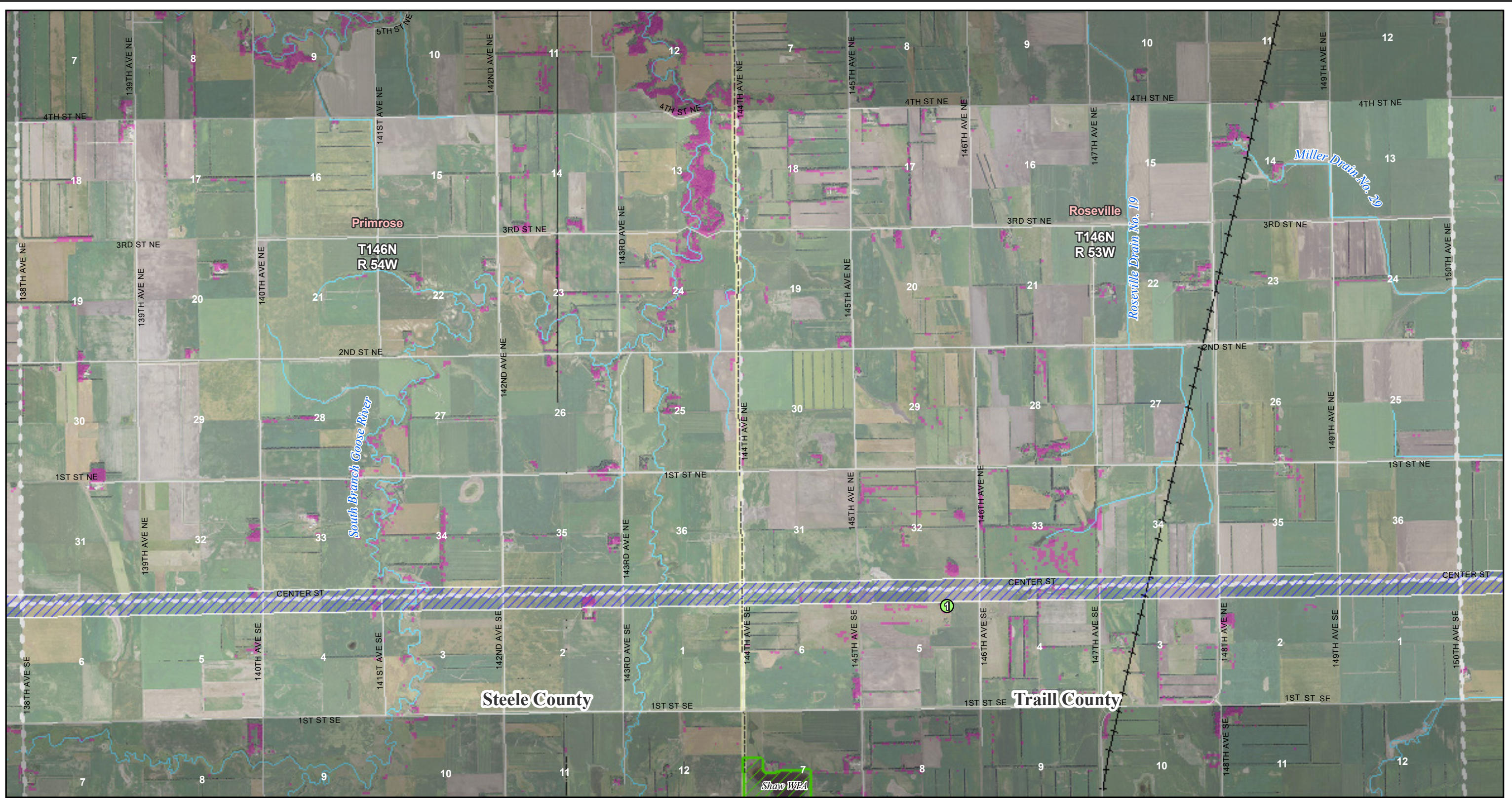


Figure 38

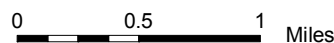
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April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

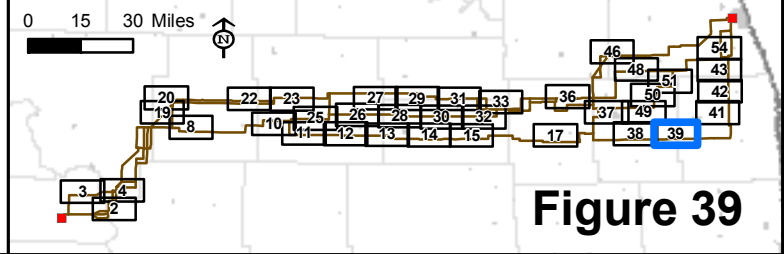
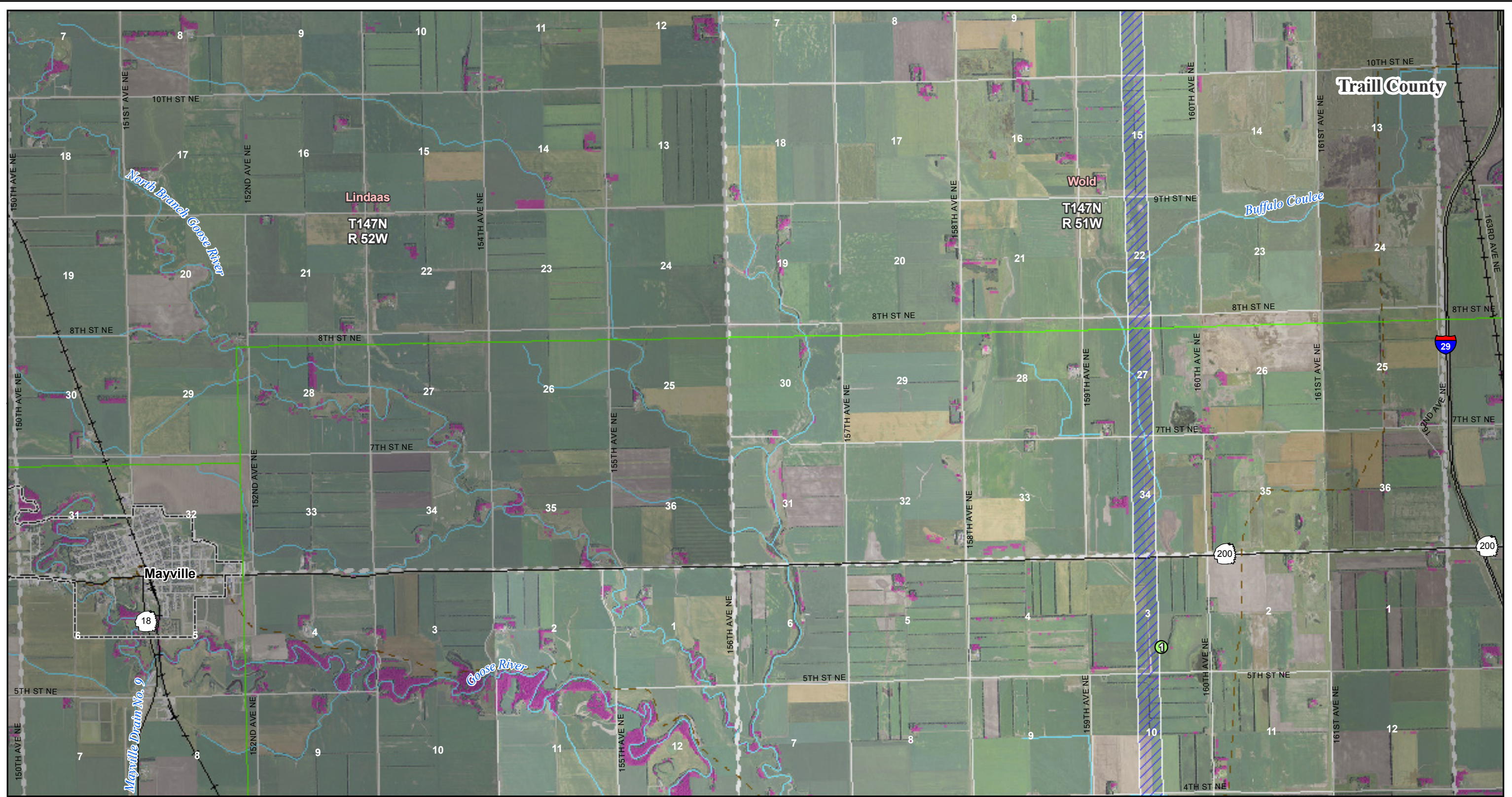


Figure 39

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project

Minnkota Power
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Scale 1:50,000

0 0.5 1 Miles

April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

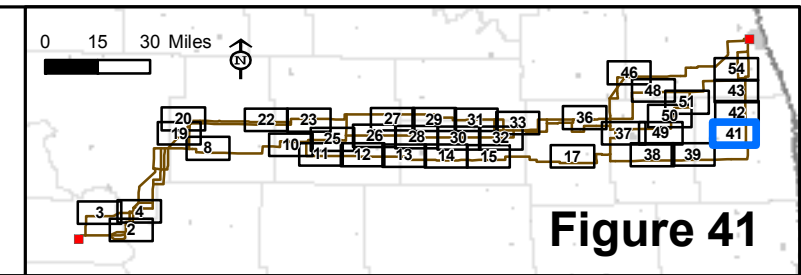


Figure 41

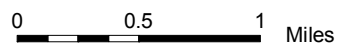
Map Document: (\\mapserver\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



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April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

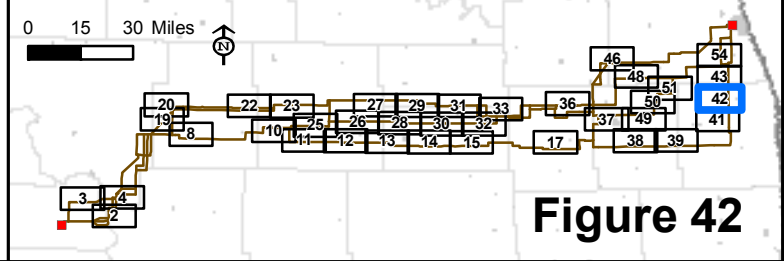


Figure 42

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM

Aerial photography published by National Agriculture Imagery Program (NAIP), 2009.

*Figures limited to areas with raptor nests or bird sitings



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April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

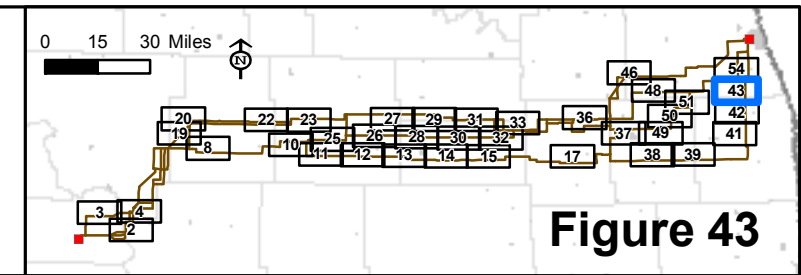
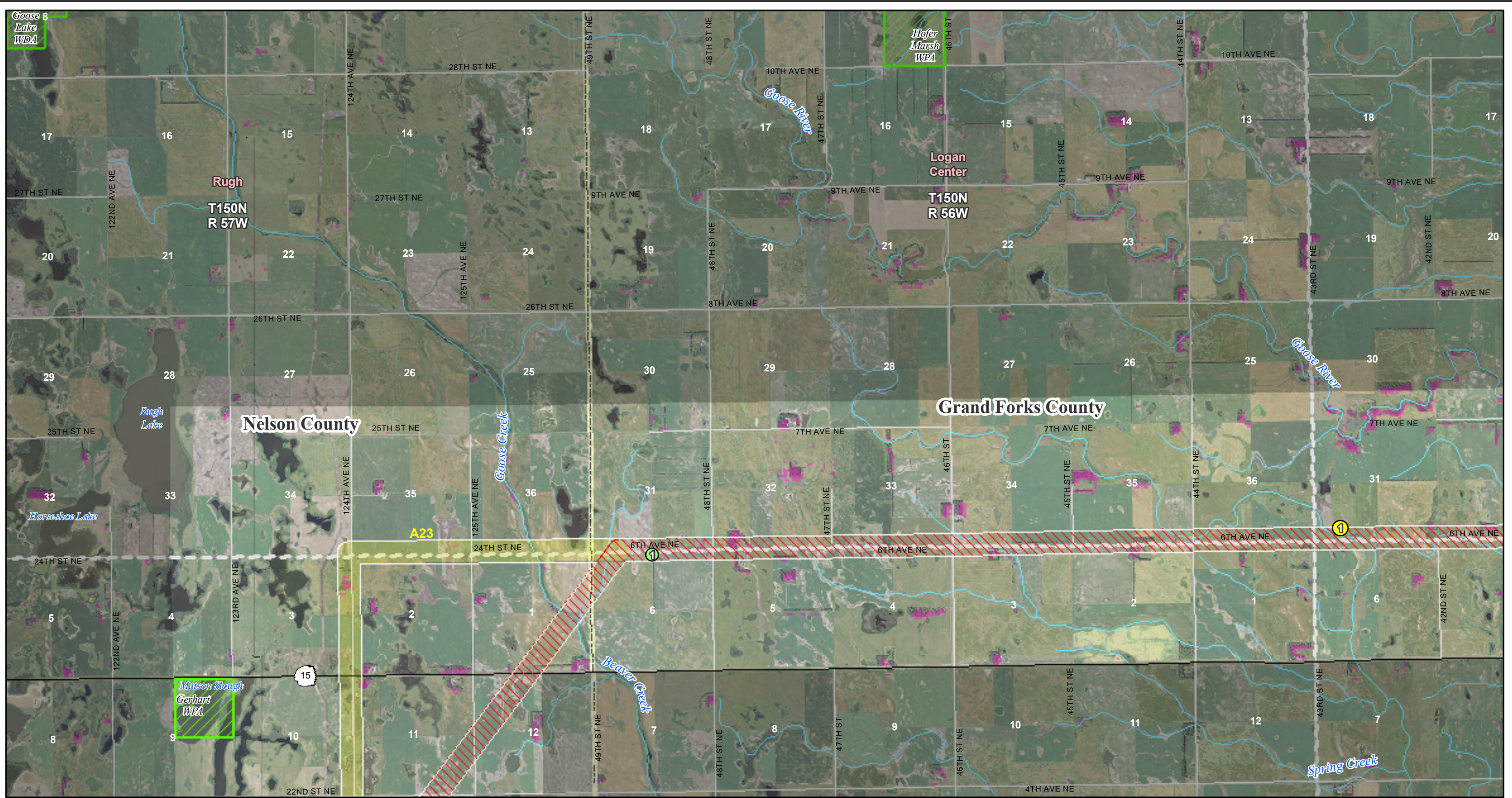


Figure 43

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project

Minnkota Power
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Scale 1:50,000
0 0.5 1 Miles

April 2010

- | | | | |
|---------------------|----------------------------|-------------------|------------------------|
| Route 1 | Perched Bald Eagle | Substation | GAP Woodland |
| Route 2 | Soaring Bald Eagles | 400 kV DC | River, Stream or Canal |
| Route 3 | Bald Eagle Nest | 345 kV AC | County Boundary |
| Segment Alternative | Possible Raptor Stick Nest | 250 kV DC | PLSS Township Boundary |
| | Hawk Observation | 230 kV AC | |
| | | 115 kV or less AC | |

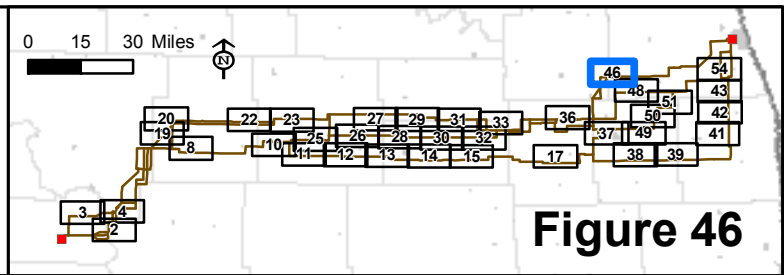
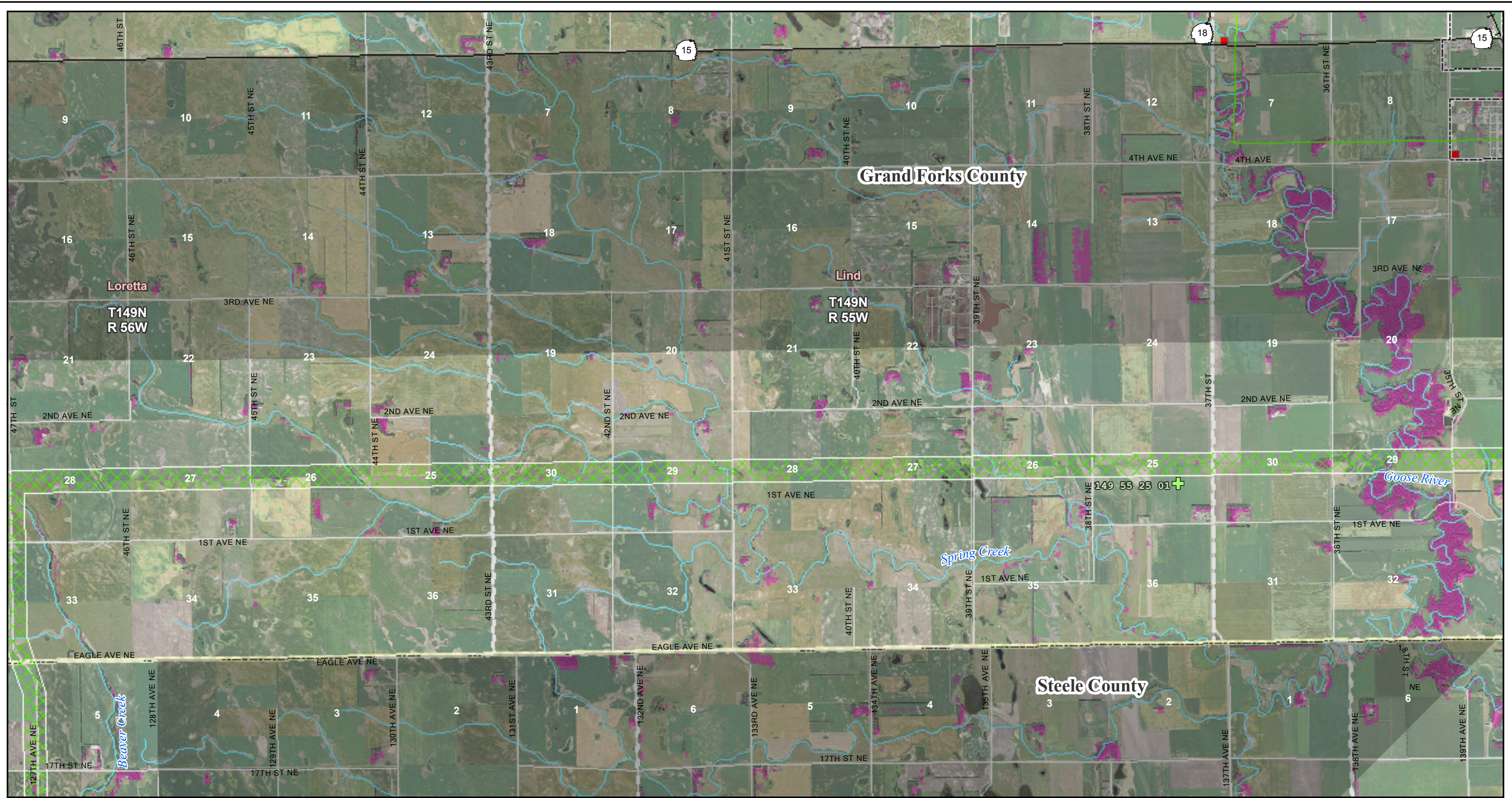


Figure 46

Map Document: (\\mspe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM

Aerial photography published by National Agriculture Imagery Program (NAIP), 2009.

*Figures limited to areas with raptor nests or bird sightings



Center to Grand Forks Project



Scale 1:50,000
0 0.5 1 Miles



April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative
- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation
- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC
- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

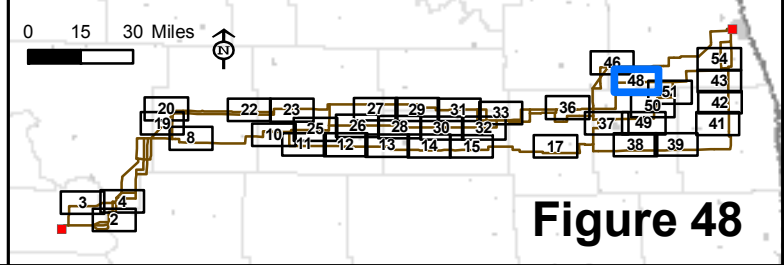
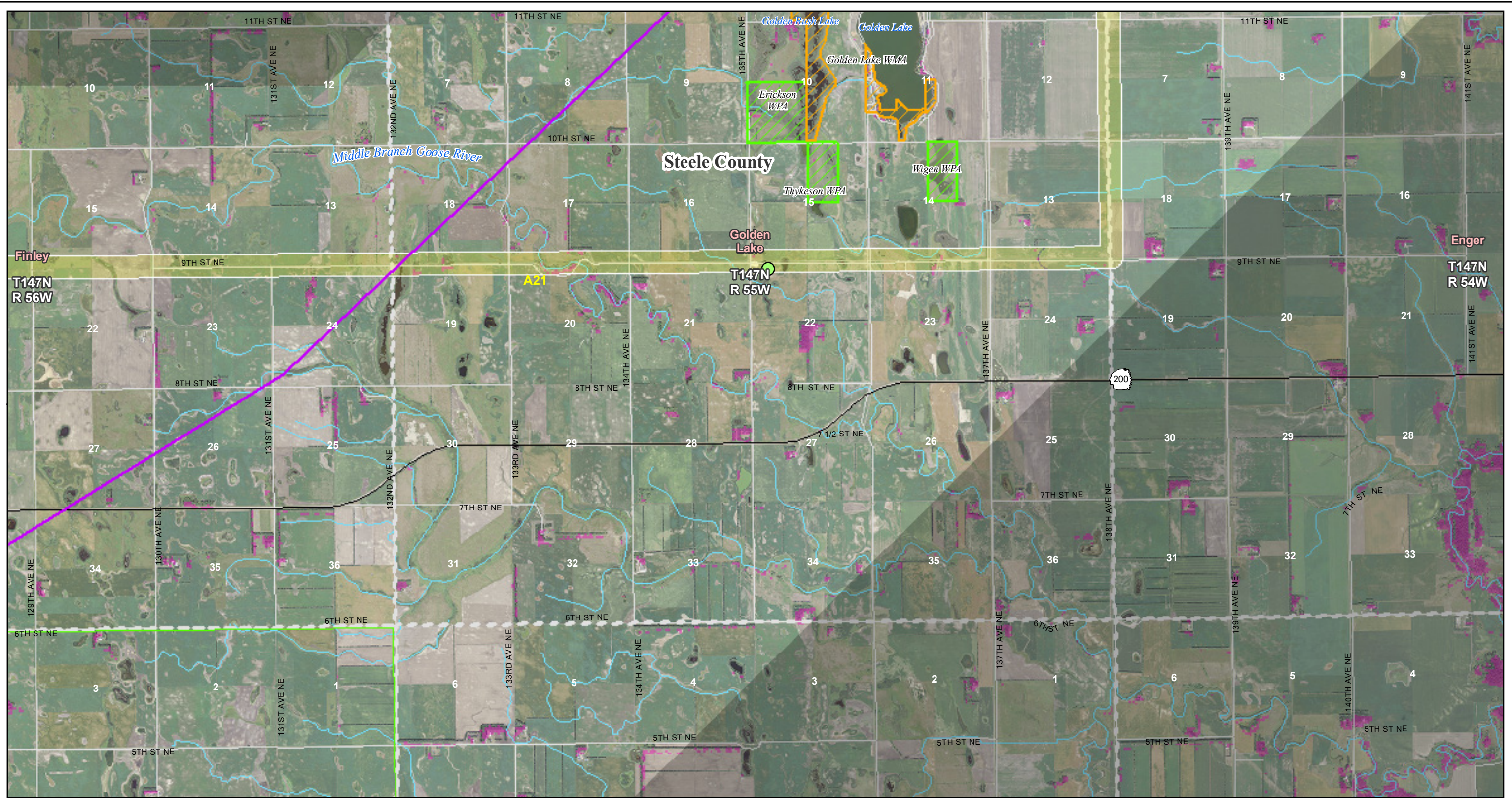


Figure 48

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM

Aerial photography published by National Agriculture Imagery Program (NAIP), 2009.

*Figures limited to areas with raptor nests or bird sitings



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Scale 1:50,000

0 0.5 1 Miles



April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

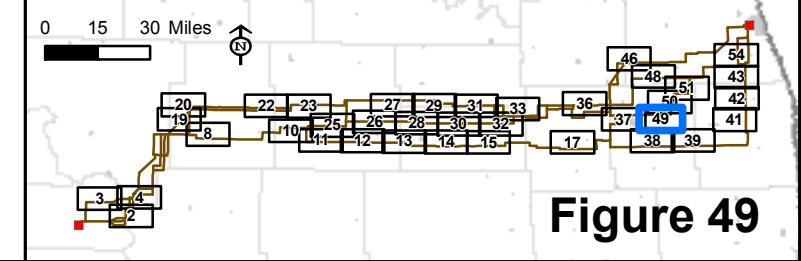


Figure 49

Map Document: (\\mspe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM

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*Figures limited to areas with raptor nests or bird sitings



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April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

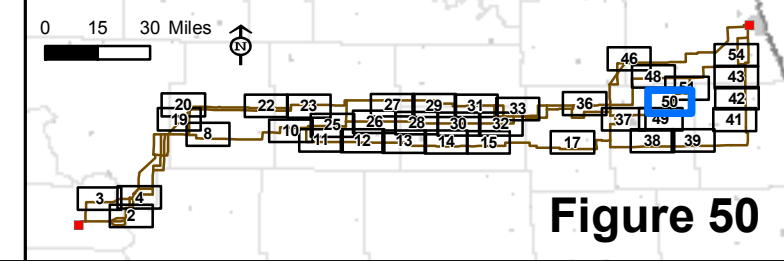
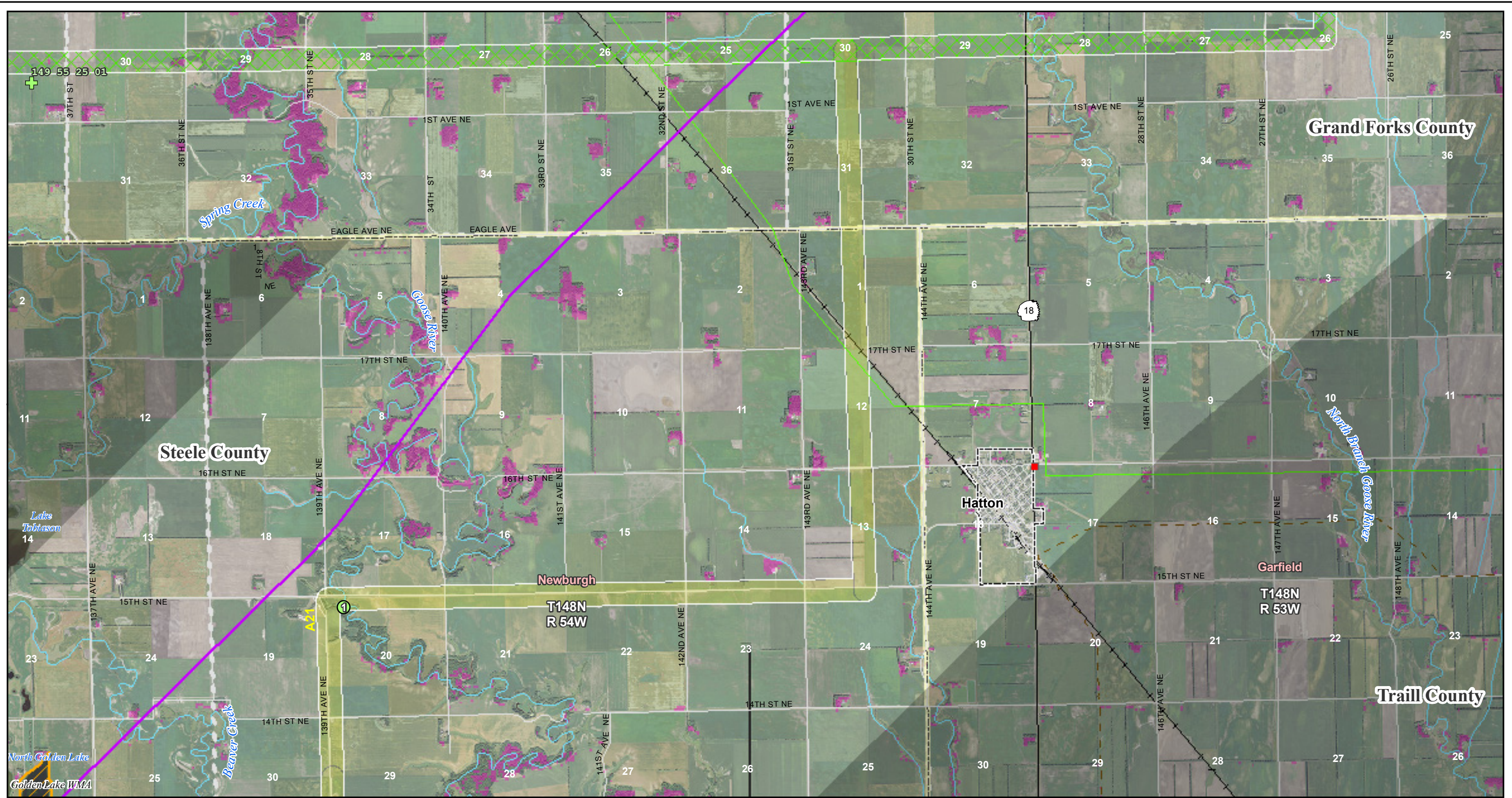


Figure 50

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



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April 2010



- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation

- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

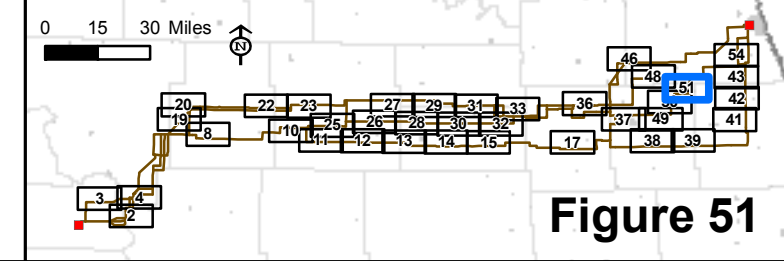


Figure 51

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\neests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM



Center to Grand Forks Project

Minnkota Power
COOPERATIVE, INC.

Scale 1:50,000
0 0.5 1 Miles

April 2010

- Route 1
- Route 2
- Route 3
- Segment Alternative

- Perched Bald Eagle
- Soaring Bald Eagles
- Bald Eagle Nest
- Possible Raptor Stick Nest
- Hawk Observation
- Substation
- 400 kV DC
- 345 kV AC
- 250 kV DC
- 230 kV AC
- 115 kV or less AC

- GAP Woodland
- River, Stream or Canal
- County Boundary
- PLSS Township Boundary

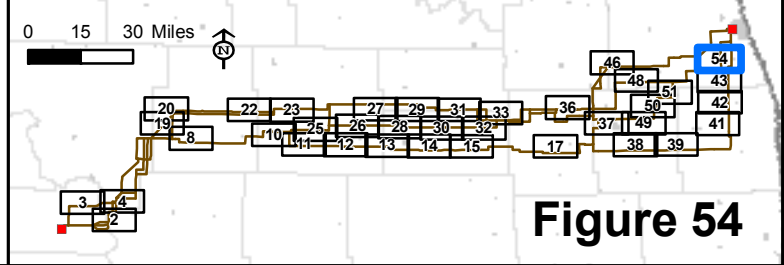


Figure 54

Map Document: (\\mpe-gis-file\gis\proj\minnkota\11090\map_docs\field\Nests\CGF_11x17_50k_mb_Nests_2010-04-16.mxd) 4/16/2010 4:25:51 PM

Aerial photography published by National Agriculture Imagery Program (NAIP), 2009.

*Figures limited to areas with raptor nests or bird sitings

Appendix A—Raptor Nest Identification Forms and Eagle Roost Form

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 143 81 29 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5227206.31312</u> Easting: <u>350918.402073</u> Notes: _____
Elevation _____
Land Ownership: P S F Other _____
USGS 7.5 Quad Name _____
County <u>McLean</u>
Geographic Area: <u>North Dakota</u>
Management Area: _____
Activity: <u>Not Active</u>
Date/Time: <u>3/29</u>
Species (if known): <u>Hawk</u>
Nest Description: _____ Map/Photo
Nest Substrate: _____
Tree Diameter (if applicable) _____
Nest Site Elevation: _____
Nest Condition: <u>Good</u>
Vegetation Type: <u>Agriculture/grassland/cottonwood</u>
Proximity to Human Disturbance: _____
Remarks/Comments: Physical Relationship to Other Nests

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 142 81 10 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5222639.80192</u> Easting: <u>359503.378592</u>	Notes: _____
Elevation _____	<u>Near Stream</u>
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Burleigh</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo _____
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Poor</u>	
Vegetation Type: <u>agriculture/grassland/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 146 78 04 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5262172.49993</u> Easting: <u>378731.792941</u>	Notes:
Elevation _____	<u>located in grassy area</u>
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Sheldon</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agriculture/grassland/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 146 78 01 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

HAWK NEST

Location: Northing: <u>5261771.65258</u> Easting: <u>383917.116581</u>	Notes:
Elevation _____	<u>Located in tree row adjacent to agriculture & grassland.</u>
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Sheldon</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>Grassland Cottonwoods</u>	
Proximity to Human Disturbance: <u>grassland/agriculture</u>	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 78 26 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Dieni

Affiliation: _____

Hawk Nest

Location: Northing: <u>5264634.31685</u> Easting: <u>380900.192967</u> Notes: _____	
Elevation _____	Large Nest – located in grassy area
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Sheridan</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Excellent</u>	
Vegetation Type: <u>Agriculture & grassland / Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 7718 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Dienl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5267707.52237</u> Easting: <u>383850.417028</u>	Notes: <u>Located in tree row in grassland</u>
Elevation: _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Sheridan</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Excellent</u>	
Vegetation Type: <u>agriculture & grassland / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 146 77 22 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5255512.32501</u> Easting: <u>388816.831702</u> Notes:	
Elevation _____	Located in tree near wetland & grassy area
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Sheldon</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agriculture / grassland / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 7A 08 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Dieml

Affiliation: _____

HAWK NEST

Location: Northing: <u>5268375.09451</u> Easting: <u>415513.52161</u>	Notes:
Elevation _____	<u>Tree row surrounded by agricultural fields & wetlands</u>
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Shenandoah</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag/grassland/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 73 12 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: _____ Easting: <u>430385.333367</u> Notes: _____	<u>Surrounded by mixture of grassland & filled fields</u>
Elevation _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>NOT ACTIVE</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____ Map/Photo _____	
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag / grassland / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID TH6 7203 01 Date: 3/30/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5260151.36753</u> Easting: <u>437359.172651</u> Notes: _____	Notes: <u>Located in trees surrounded by agricultural land near stream.</u>
Elevation: _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____ Map/Photo _____	
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag / grassland / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests _____	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 71 32 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5261176.54738</u> Easting: <u>443932.235805</u> Notes: _____	<u>Near Lake Ontario — in agricultural land.</u>
Elevation _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>NOT Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>big Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 71 ~~33~~ 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5261198.99299</u> Easting: <u>445013.3418113</u> Notes: _____	
Elevation _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag / grassland / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

Lake Ontario located to the North.

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 148713101 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>527082612009</u> Easting: <u>491856.328121</u> Notes: _____	Located in tree row surrounded by agricultural fields.
Elevation _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agricultural field/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 70 26 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5263259.03601</u> Easting: <u>457523.333415</u> Notes: _____	<u>Located South of Rocky Run Creek. In grassy area.</u>
Elevation _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: <u>1</u> Map/Photo _____	
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>grassland/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests _____	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID AK 70 27 01 Date: 3/30/2010
Observed by: M. Lundberg & A. Dienl
Affiliation: _____

Location: Northing: <u>5253708.19997</u> Easting: <u>456998.829985</u>	Notes:
Elevation _____	Located in tree row in agricultural land.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>Agricultural land/Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 146 70 27 02 Date: 3/30/2010
Observed by: M. Lundberg & A. Dieml
Affiliation: _____

Location: Northing: <u>5253723.39719</u> Easting: <u>456269.11842</u>	Notes:
Elevation: _____	Located in tree row within agricultural Land
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>NOT ACTIVE</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agricultural land/Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 14670 2601 Date: 3/30/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5253571.37411</u> Easting: <u>457819.744871</u> Notes: _____	
Elevation _____	Located in cluster of trees
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag/grassland/Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 146 69 28 01 Date: 3/30/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5253601.77943</u> Easting: <u>464979.990542</u> Notes: _____	
Elevation: _____	Located adjacent to Pipestem Creek in grassy area.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Excellent</u>	
Vegetation Type: <u>Grassland / Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 148 68 30 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5272927.70833</u> Easting: <u>471108.11378</u>	Notes:
Elevation _____	Located in Row of trees Surrounded by tilled fields. Stream nearby
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>Agricultural land / Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 148 68 30 02 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5272859.64532</u> Easting: <u>471108.11378</u>	Notes:
Elevation _____	Located in row of trees w/ stream nearby. Surrounded by agricultural land.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>NOT ACTIVE</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag / grassland / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 148 68 26 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

HAWK NEST

Location: Northing: <u>5272810.28119</u> Easting: <u>477658.904857</u> Notes: _____	
Elevation: _____	located in tree row surrounded by tilled agriculture.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Wells</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agricultural land / Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 148 67 28 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Hawk Nest

Location: Northing: <u>5272979.13554</u> Easting: <u>483665.17673</u>	Notes:
Elevation _____	<u>Surrounded by farm fields</u>
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	<u>Near Rosefield Slough (part of Rocky Run).</u>
County <u>Eddy</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>Agricultural land/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 148 47 25 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Dieml

Affiliation: _____

Location: Northing: <u>5272818.81063</u> Easting: <u>488113.057303</u> Notes:	located in a clump of trees in grassland near Rocky Run.
Elevation _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Eddy</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____ Map/Photo	
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>grassland / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 198 67 25 02 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5272918.81063</u> Easting: <u>488113.057303</u> Notes:	located in clump of trees in grassland near Rocky Run.
Elevation _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Eddy</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>grassland/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 146 67 36 01 Date: 3/30/2010
Observed by: M. Lundberg & A. Diehl
Affiliation: _____

5251071.09747	Location: Northing: _____	Eastings: <u>488619.442812</u>	Notes:
	Elevation _____		Tree Row Surrounded by agricultural land.
	Land Ownership: P S F Other _____		
	USGS 7.5 Quad Name _____		
	County <u>Foster</u>		
	Geographic Area: <u>North Dakota</u>		
	Management Area: _____		
	Activity: <u>Active</u>		
	Date/Time: <u>3/30</u>		
	Species (if known): <u>Hawk</u>		
	Nest Description: _____	Map/Photo	
	Nest Substrate: _____		
	Tree Diameter (if applicable) _____		
	Nest Site Elevation: _____		
	Nest Condition: <u>Excellent</u>		
	Vegetation Type: <u>agricultural land/cottonwood</u>		
	Proximity to Human Disturbance: _____		
	Remarks/Comments: Physical Relationship to Other Nests		

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 146 66 31 01 Date: 3/30/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5251959.93965</u> Easting: <u>490930.180269</u>	Notes:
Elevation _____	Tree Row Surrounded by agricultural fields
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Foster</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agricultural fields / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 14665 32 01 Date: 3/30/2010

Observed by: M. Lundberg & A. Dickl

Affiliation: _____

5251921.9341	502065.806499	Notes:
Location: Northing: _____	Easting: _____	Located in Tree Row around agricultural field. 1/2 mile from Lake George.
Elevation _____		
Land Ownership: P S F Other _____		
USGS 7.5 Quad Name _____		
County <u>Foster</u>		
Geographic Area: <u>North Dakota</u>		
Management Area: _____		
Activity: <u>Not Active</u>		
Date/Time: <u>3/30</u>		
Species (if known): <u>Hawk</u>		
Nest Description: _____	Map/Photo	
Nest Substrate: _____		
Tree Diameter (if applicable) _____		
Nest Site Elevation: _____		
Nest Condition: <u>Good</u>		
Vegetation Type: <u>agricultural land / cottonwood</u>		
Proximity to Human Disturbance: _____		
Remarks/Comments: Physical Relationship to Other Nests		

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 14664 3501 Date: 3/30/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5252041.65978</u> Easting: <u>515271.575133</u> Notes: _____	
Elevation _____	Tree Row within grassland. Near James River
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>FOSTER</u>	
Geographic Area: <u>NORTH DAKOTA</u>	
Management Area: _____	
Activity: <u>NOT ACTIVE</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>grassland/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 65 35 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5262345.03268</u> Easting: <u>505872.20224</u> Notes: <u>Located in tree row within grassland</u>
Elevation _____
Land Ownership: P S F Other _____
USGS 7.5 Quad Name _____
County <u>Foster</u>
Geographic Area: <u>North Dakota</u>
Management Area: _____
Activity: <u>Not Active</u>
Date/Time: <u>3/29</u>
Species (if known): <u>HAWK</u>
Nest Description: _____ Map/Photo
Nest Substrate: _____
Tree Diameter (if applicable) _____
Nest Site Elevation: _____
Nest Condition: <u>Good</u>
Vegetation Type: <u>grassland / cottonwood</u>
Proximity to Human/Disturbance: _____
Remarks/Comments: Physical Relationship to Other Nests

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 64 32 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5262284.5509</u> Easting: <u>511489.892106</u>	Notes:
Elevation _____	Located in clump of trees surrounded by grassland.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Foster</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>grassland/Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 63 33 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5262377.39709</u> Easting: <u>522990.594215</u> Notes: _____	Notes: Located in tree row in agricultural land.
Elevation: _____	
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Foster</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29/</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agricultural land / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 61 19 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

HAWK NEST

Location: Northing: <u>5264861.90122</u> Easting: <u>539213.80431</u> Notes: _____	
Elevation _____	
Land Ownership: P S F Other _____	Located in tree row w/ grassland to the north.
USGS 7.5 Quad Name _____	
County <u>Griegs</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Excellent</u>	
Vegetation Type: <u>grassland/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 61 15 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5265997.9296</u> Easting: <u>543263.4769</u> Notes:	
Elevation _____	Located in tree row - mixture of grassland & tilled land surrounding
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Griegas</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag / grassland / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 100 06 01 Date: 3/29/2010
Observed by: M. Lundberg & A. Diehl
Affiliation: _____

Location: Northing: <u>5270473.10588</u> Easting: <u>548751.539098</u> Notes: _____	
Elevation: _____	Located in grove of trees surrounding a farmstead - surrounded by grassland & tilled agricultural land.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Griggs</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>NOT Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag/grassland/Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 59 04 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5270592.31238</u> Easting: <u>560329.21306</u> Notes:	
Elevation _____	Located in tree row surrounded by tilled agriculture.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Griggs</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>NOT Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agricultural land / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 145 59 03 01 Date: 3/30/2010
Observed by: M. Lundberg & A. Diehl
Affiliation: _____

Location: Northing: <u>5250494.83907</u> Easting: <u>563632.980343</u> Notes: _____	
Elevation _____	
Land Ownership: P S F Other _____	Located in tree row - surrounded by agricultural fields
USGS 7.5 Quad Name _____	
County <u>Griggs</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agricultural land / cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 145 56 02 01 Date: 3/30/2010
Observed by: M. Lundberg & A. Diehl
Affiliation: _____

Location: Northing: <u>5251385.90202</u> Easting: <u>593029.329283</u> Notes: <u>Located in tree row near agricultural field - surrounded by streams</u>
Elevation: _____
Land Ownership: P S F Other _____
USGS 7.5 Quad Name _____
County: <u>Steele</u>
Geographic Area: <u>North Dakota</u>
Management Area: _____
Activity: <u>NOT Active</u>
Date/Time: <u>3/30</u>
Species (if known): <u>HAWK</u>
Nest Description: _____ Map/Photo
Nest Substrate: _____
Tree Diameter (if applicable) _____
Nest Site Elevation: _____
Nest Condition: <u>Good</u>
Vegetation Type: <u>Agricultural Land/Cottonwood</u>
Proximity to Human Disturbance: _____
Remarks/Comments: Physical Relationship to Other Nests

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 147 57 24 01 Date: 3/30/2010
Observed by: M. Lundberg & A. Diehl
Affiliation: _____

Location: Northing: <u>5266092.12705</u> Easting: <u>585156.95285</u> Notes: _____	
Elevation _____	Located in clump of trees surrounded by tilled agriculture. Fritz WPA located to the north
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Steele</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>Agricultural land/ Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 148 54 31 01 Date: 3/30/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>527191.80253</u> Easting: <u>6059771.483456</u>	Notes:
Elevation _____	Located in tree row surrounded by agriculture. within 1/4 mile of Beaver Creek.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Steele</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>Agricultural land/Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 149 55 25 01 Date: 3/29/2010

Observed by: M. Lundberg & A. Dien

Affiliation: _____

Location: Northing: <u>5282907.27302</u> Easting: <u>602749.208581</u> Notes: _____	
Elevation: _____	located in tree row
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Grand Forks</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>ag/grassland/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 148 51 27 01 Date: 3/30/2010

Observed by: M. Lundberg & A. Diehl

Affiliation: _____

Location: Northing: <u>5274891.37262</u> Easting: <u>639685.106472</u> Notes: _____	
Elevation _____	Located in a Clump of trees Surrounded by agricultural fields
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Traill</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>NOT ACTIVE</u>	
Date/Time: <u>3/30</u>	
Species (if known): <u>HAWK</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>Agricultural land/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 149510801 Date: 3/29/2010
Observed by: M. Lundberg & A. Drenth
Affiliation: _____

Location: Northing: <u>5288620.96469</u> Easting: <u>634216.182699</u> Notes: _____	
Elevation: _____	
Land Ownership: P S F Other _____	Tree Row surrounded by agriculture.
USGS 7.5 Quad Name _____	
County <u>Grand Forks</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Not Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Hawk</u>	
Nest Description: _____	Map/Photo
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Good</u>	
Vegetation Type: <u>agricultural land/cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

RAPTOR AND BALD EAGLE NEST LOCATION

Raptor Inventory Data Sheet

Raptor Nest ID 1A7 63 05 01 Date: 3/29/2010

Observed by: M. Lundberg & A. ~~Diem~~ Diem

Affiliation: _____

Location: Northing: <u>5270112.3525</u> Easting: <u>521006.359218</u>	Notes:
Elevation _____	Located in a tree row surrounded by agricultural land Juanita Lake 1.5 miles South.
Land Ownership: P S F Other _____	
USGS 7.5 Quad Name _____	
County <u>Foster</u>	
Geographic Area: <u>North Dakota</u>	
Management Area: _____	
Activity: <u>Active</u>	
Date/Time: <u>3/29</u>	
Species (if known): <u>Eagle</u>	
Nest Description: _____	
Nest Substrate: _____	
Tree Diameter (if applicable) _____	
Nest Site Elevation: _____	
Nest Condition: <u>Excellent</u>	
Vegetation Type: <u>Agricultural land / Cottonwood</u>	
Proximity to Human Disturbance: _____	
Remarks/Comments: Physical Relationship to Other Nests	

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diem

Date: 3/29/2010

Time: _____

Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈ 50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
T142N R81W22	2	1 A, 2 J A	Dead Cottonwood along Minnesota River
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: Burleigh County			
COMMENTS: Perched in tree within Route A along Missouri River.			
COMMENTS:			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting - 353252.410033

Northing - 5218775.00549

¹ A= Adult, J = Juvenile, U= Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diehl

Date: 3/29/2010

Time: _____

Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈ 50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
<u>T143N R81W 29</u>	<u>1</u>	<u>1 A, 2 J</u>	<u>Dead Cottonwood along Minnesota River</u>
Example: T109 R30 S3 OR 2.0 miles SE of New Ulm just west of Shag Road and RR Alignment			
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: <u>McLean County</u>			
COMMENTS: <u>Soaring 1/2 off of Route along Missouri River</u>			
COMMENTS:			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting - 351085.110251

Northing - 5226938.58298

¹ A= Adult, J = Juvenile, U= Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Dienl
 Date: 3/30/2010 & 3/29/2010
 Time: _____
 Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈ 50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
<u>T146N R72W3</u>			
Example: T109 R30 S3 OR 2.0 miles SE of New Ulm just west of Shag Road and RR Alignment	2 <u>2</u>	1 A, 2 J <u>A</u>	Dead Cottonwood along Minnesota River
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: <u>Wells County</u>			
COMMENTS: <u>2 Eagles Perched on 3/29 & 1 Eagle on 3/30</u>			
COMMENTS: <u>Clump of trees among agricultural fields</u>			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting - 437297.614169
 Northing - 526014.65856

¹ A= Adult, J = Juvenile, U= Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diehl

Date: 3/30/2010

Time: _____

Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈ 50° F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
<u>T14N R70W S30</u>	<u>2 3</u>	<u>1 A, 2 J A</u>	<u>Dead Cottonwood along Minnesota River</u>
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site. <u>perched in tree</u>			
COMMENTS: <u>Wells County</u>			
COMMENTS: <u>1 mile west of pipestem creek</u>			
COMMENTS: <u>Grassland to the south</u>			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting - 451611.254004

Northing - 5253378.77847

¹ A= Adult, J = Juvenile, U= Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diehl

Date: 3/29/2010

Time: _____

Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈ 50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
T1A7N R 68W S28	2	1 A, 2 J	Dead Cottonwood along Minnesota River
Example: T109 R30 S3 OR 2.0 miles SE of New Ulm just west of Shag Road and RR Alignment			
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: Wells County			
COMMENTS: 1 Eagle in flight			
COMMENTS: Near Scotts Slough			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting - 473933.59888

Northing - 5263987.43272

¹ A = Adult, J = Juvenile, U = Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diehl
 Date: 3/29/2010
 Time: _____
 Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈ 50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
<u>T148N R48W S26</u>			
Example: T109 R30 S3 OR 2.0 miles SE of New Ulm just west of Shag Road and RR Alignment	2	1 A, 2 J	Dead Cottonwood along Minnesota River
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: <u>Wells County</u>			
COMMENTS: <u>Perched in a tree row surrounded by tilled land</u>			
COMMENTS:			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting - 477674.670609
 Northing - 5272476.83622

¹ A = Adult, J = Juvenile, U = Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diehl
 Date: 3/29
 Time: _____
 Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈ 50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
T 148N R 67W S 28	2	1 A, 2 J	Dead Cottonwood along Minnesota River
Example: T109 R30 S3 OR 2.0 miles SE of New Ulm just west of Shag Road and RR Alignment			
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: Eddy County			
COMMENTS: Perched in tree rows next to Rosefield Slough (part of Rocky run)			
COMMENTS: Surrounding land is agriculture			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting - 484762.045254
 Northing - 5272930.92628

¹ A= Adult, J = Juvenile, U= Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diehl

Date: 3/30/2010

Time: _____

Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear Skys, ≈ 50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
<u>T146N R67W S35</u>	<u>2</u>	<u>1 A, 2 J</u> <u>IA</u>	<u>Dead Cottonwood along Minnesota River</u>
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: <u>Foster County</u>			
COMMENTS: <u>1 Eagle perched in tree row surrounded by agricultural land</u>			
COMMENTS: _____			
COMMENTS: _____			
COMMENTS: _____			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting - 487836.528476

Northing - 5251921.9341

¹ A= Adult, J = Juvenile, U= Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diehl

Date: 3/29/2010

Time: _____

Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈ 50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
<u>T150N R55W S31</u>			
Example: T109 R30 S3 OR 2.0 miles SE of New Ulm just west of Shag Road and RR Alignment	2 <u>1</u>	1 A, 2 J <u>A</u>	Dead Cottonwood along Minnesota River
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: <u>Grand Forks County</u>			
COMMENTS: <u>Perched in a tree next to agricultural land & a stream</u>			
COMMENTS:			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting – 593792.355289
 Northing – 5290444.42114

¹ A = Adult, J = Juvenile, U = Unknown

BALD EAGLE ROOST SURVEY DATA FORM

Observer: M. Lundberg & A. Diehl
 Date: 3/29/2010
 Time: _____
 Weather (Cloud Cover, Wind Speed/Direction, Temperature): Clear, ≈50°F

Location (Township/Range/Section OR Description of Location)	Number of Eagles Observed	Age Class (A,J,U) ¹	Habitat Type
T150N R51W S28	2	1 A, 2 J A	Dead Cottonwood along Minnesota River
COMMENTS: Example: Eagle roost site less than 1.0 mile from building construction site.			
COMMENTS: Grand Forks County			
COMMENTS: 1 Eagle flying over agricultural land			
COMMENTS:			
COMMENTS:			
COMMENTS:			

RECORD ALL POINTS AND CORRIDORS ON GPS UNIT

Easting – 635618.953662

Northing – 5292889.33983

¹ A= Adult, J = Juvenile, U= Unknown