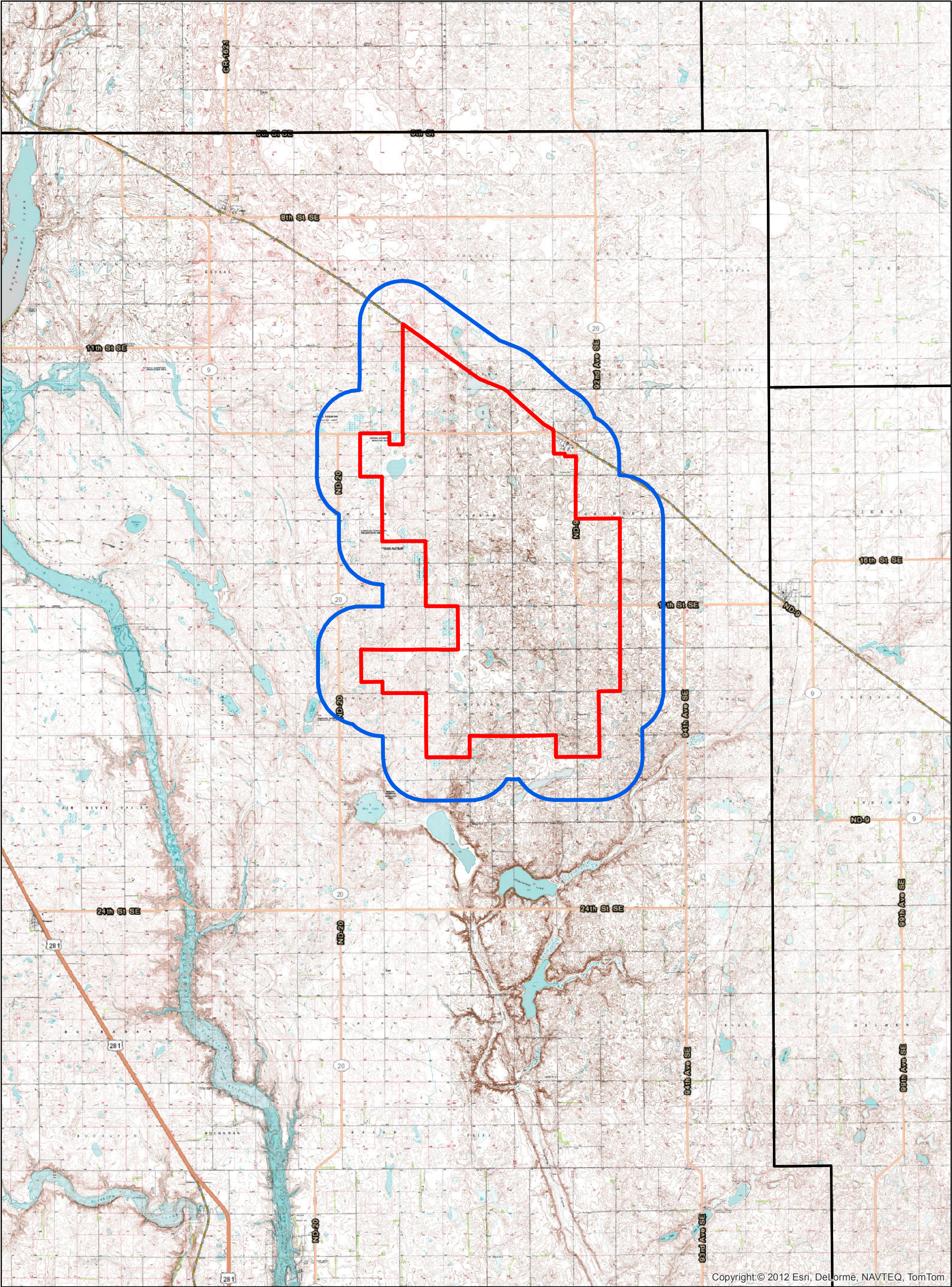
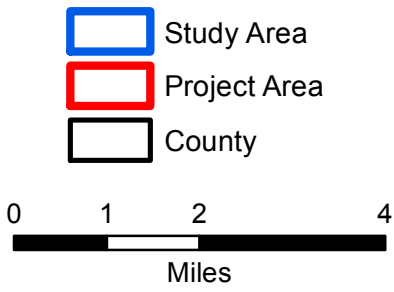
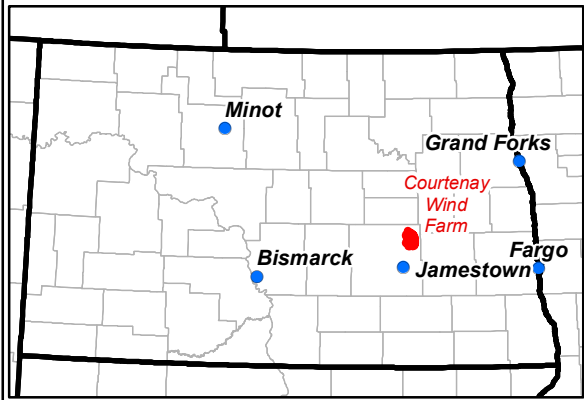




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Source: NGS USA Topo (2011), Ventyx, ESRI et al: World Transportation (2012)

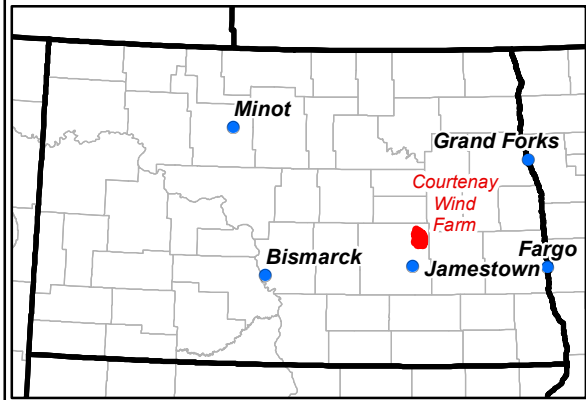
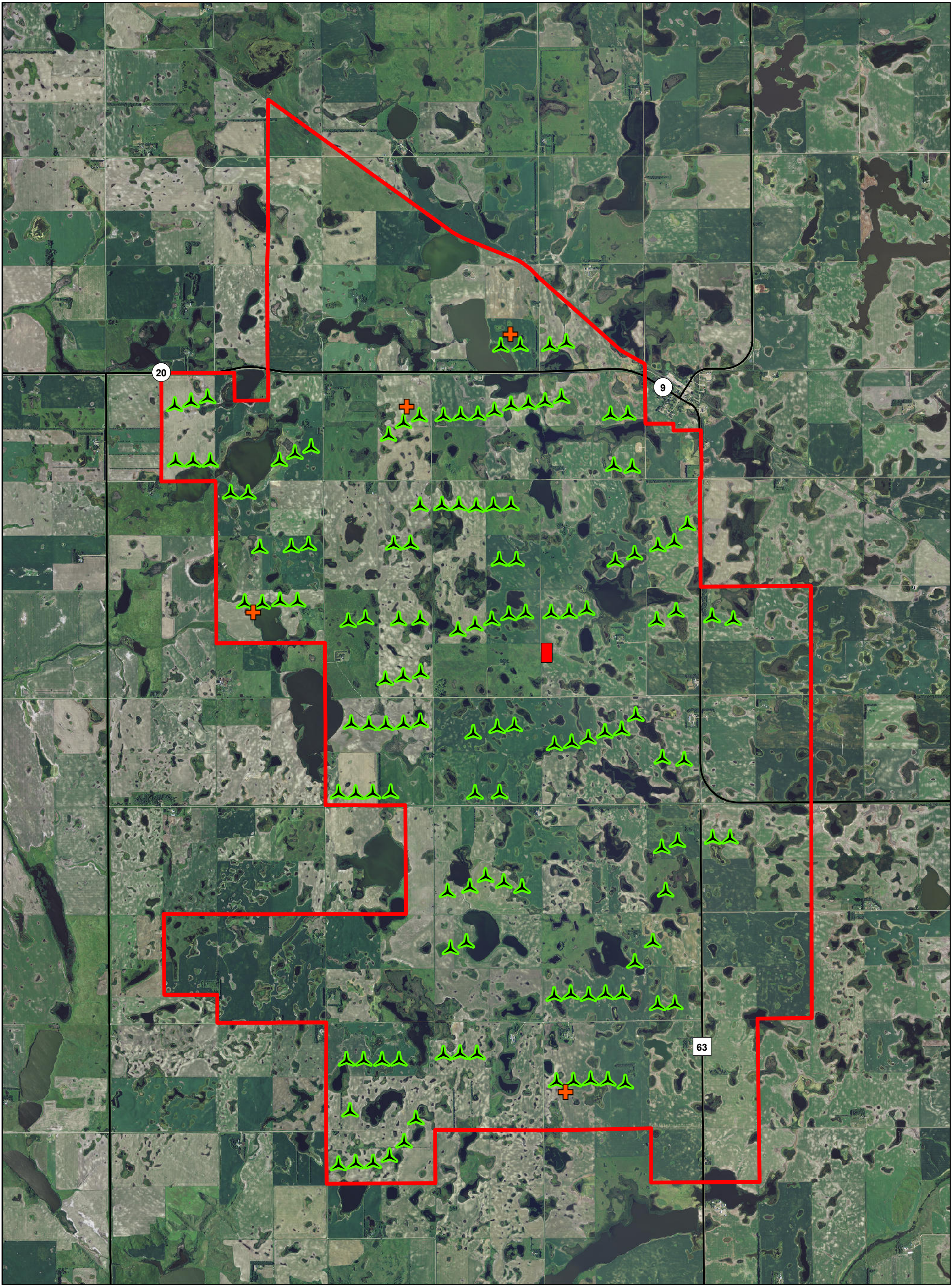
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COURTENAY
WIND FARM
Stutsman County, ND

FIGURE 1
Project Vicinity

Courtenay Wind Farm
Stutsman County, North Dakota





-  Project Area
-  Permanent Met Towers
-  Proposed Substation
-  Preliminary Turbine Layout



Source: USDA NAIP (2010), ESRI et al:
World Transportation (2012), Vyntex

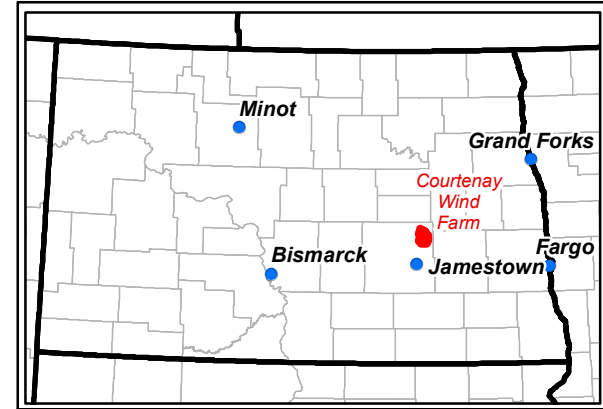
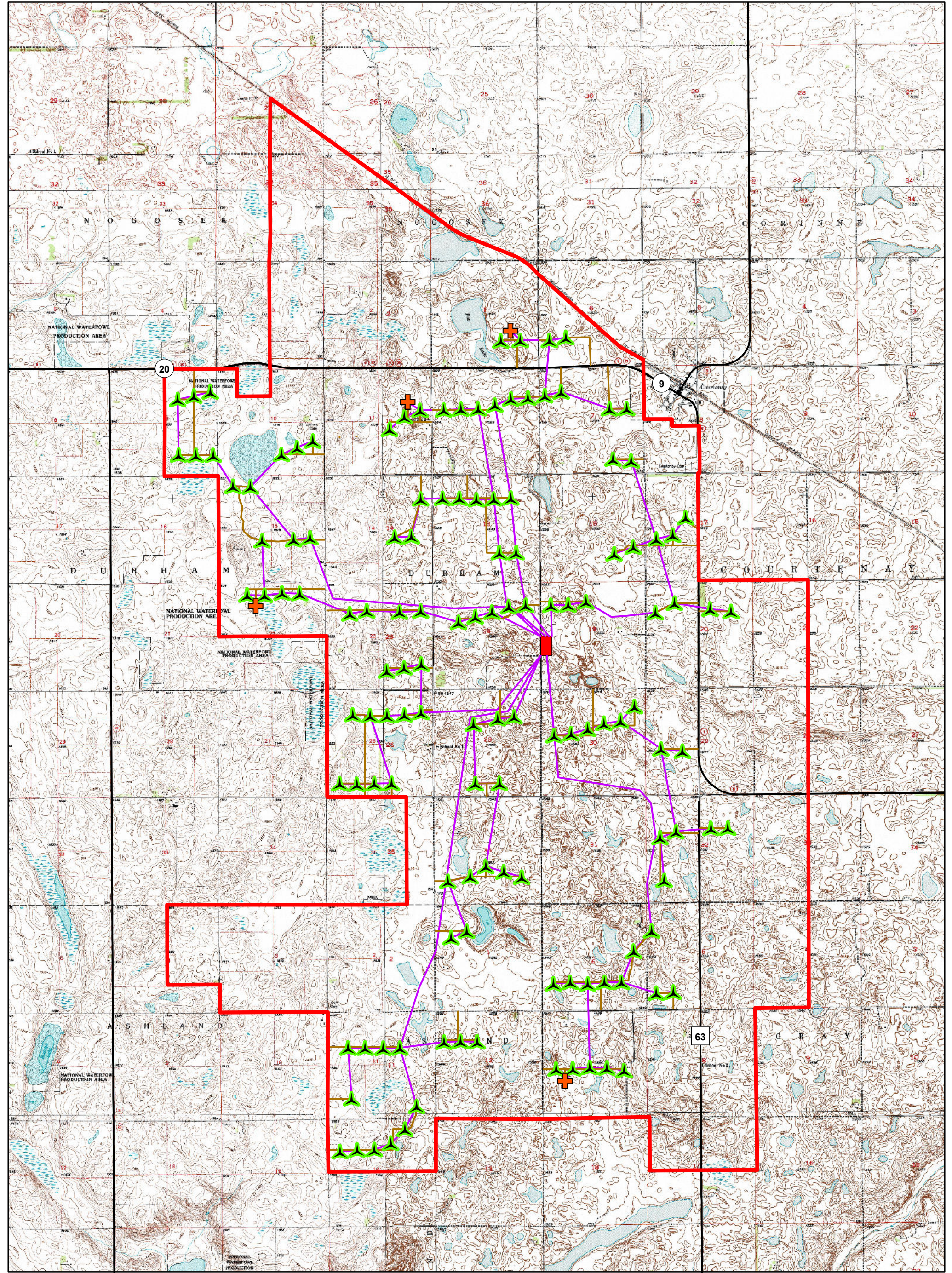

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WIND FARM
Stutsman County, ND

FIGURE 2
Project Location Map
(Aerial)

Courtenay Wind Farm
Stutsman County, North Dakota





- Permanent Met Towers
- Preliminary Turbine Layout
- Access Roads
- Collector Lines
- Proposed Substation
- Project Area



Source: NGS USA Topo (2011), Ventyx, ESRI et al: World Transportation (2012)

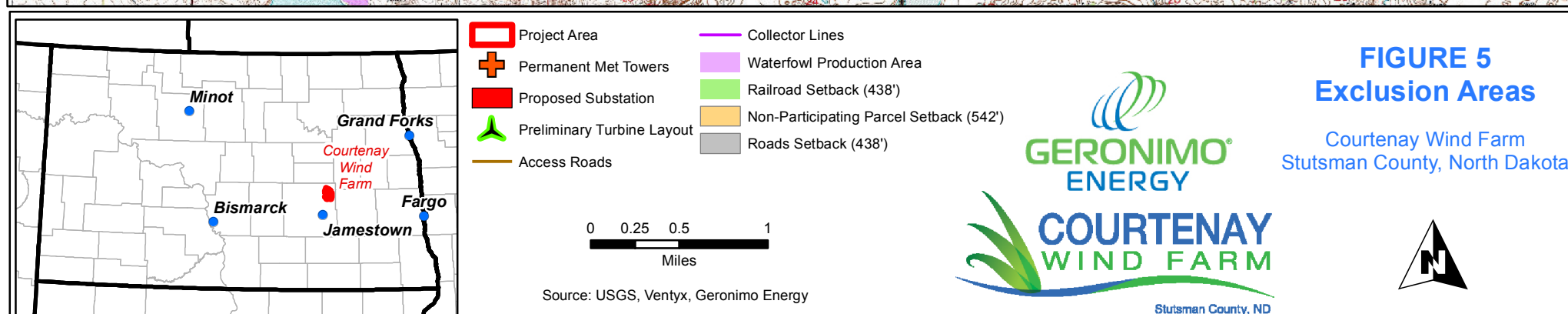
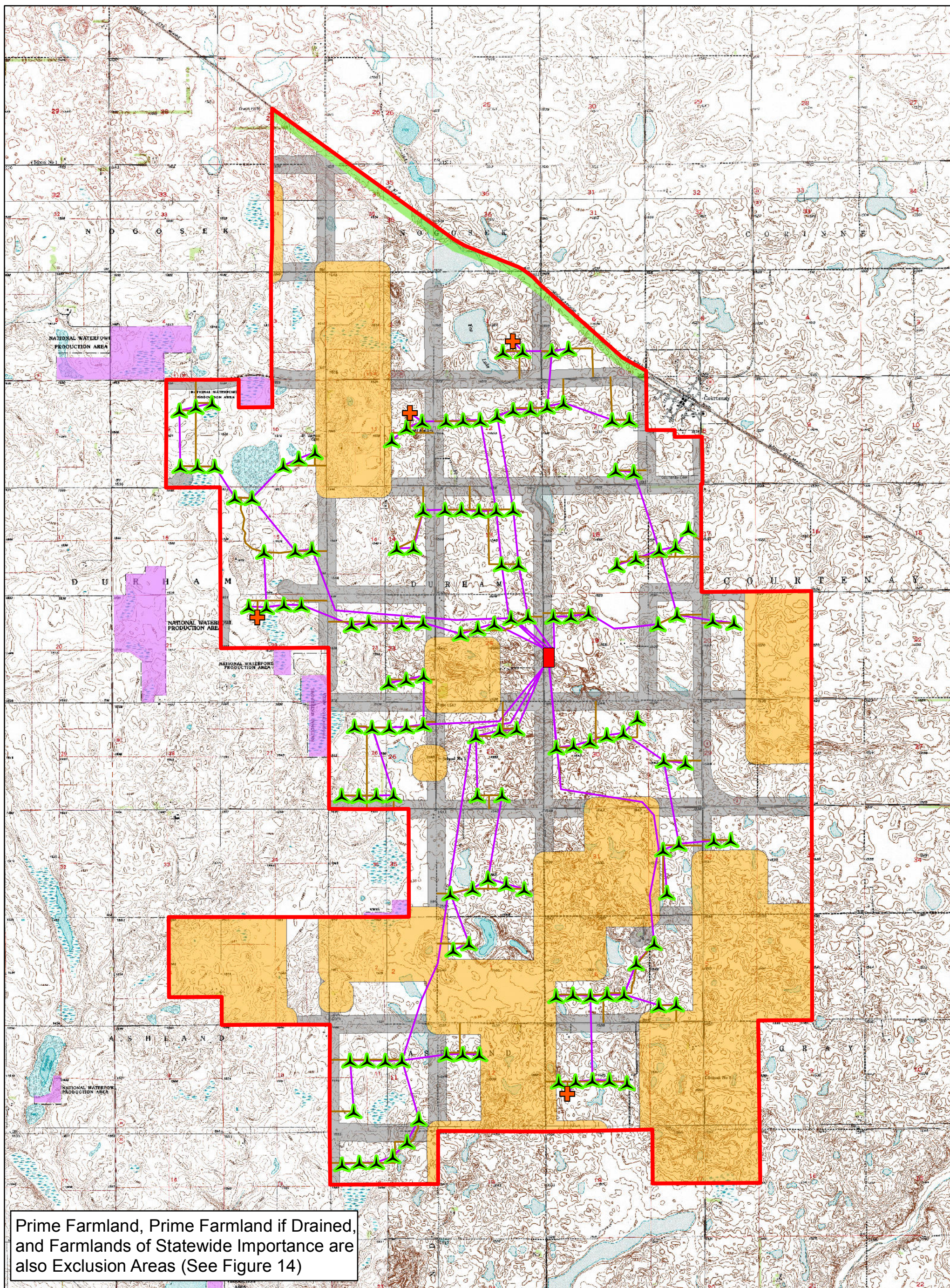


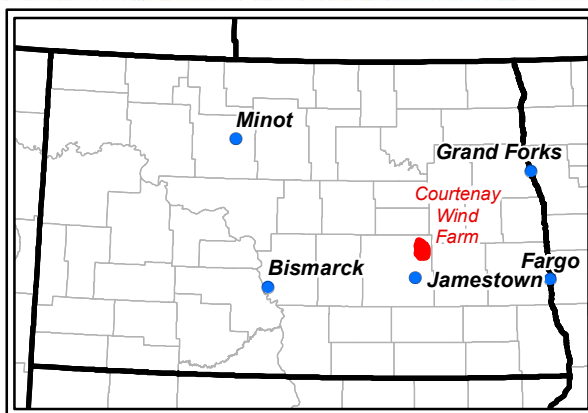
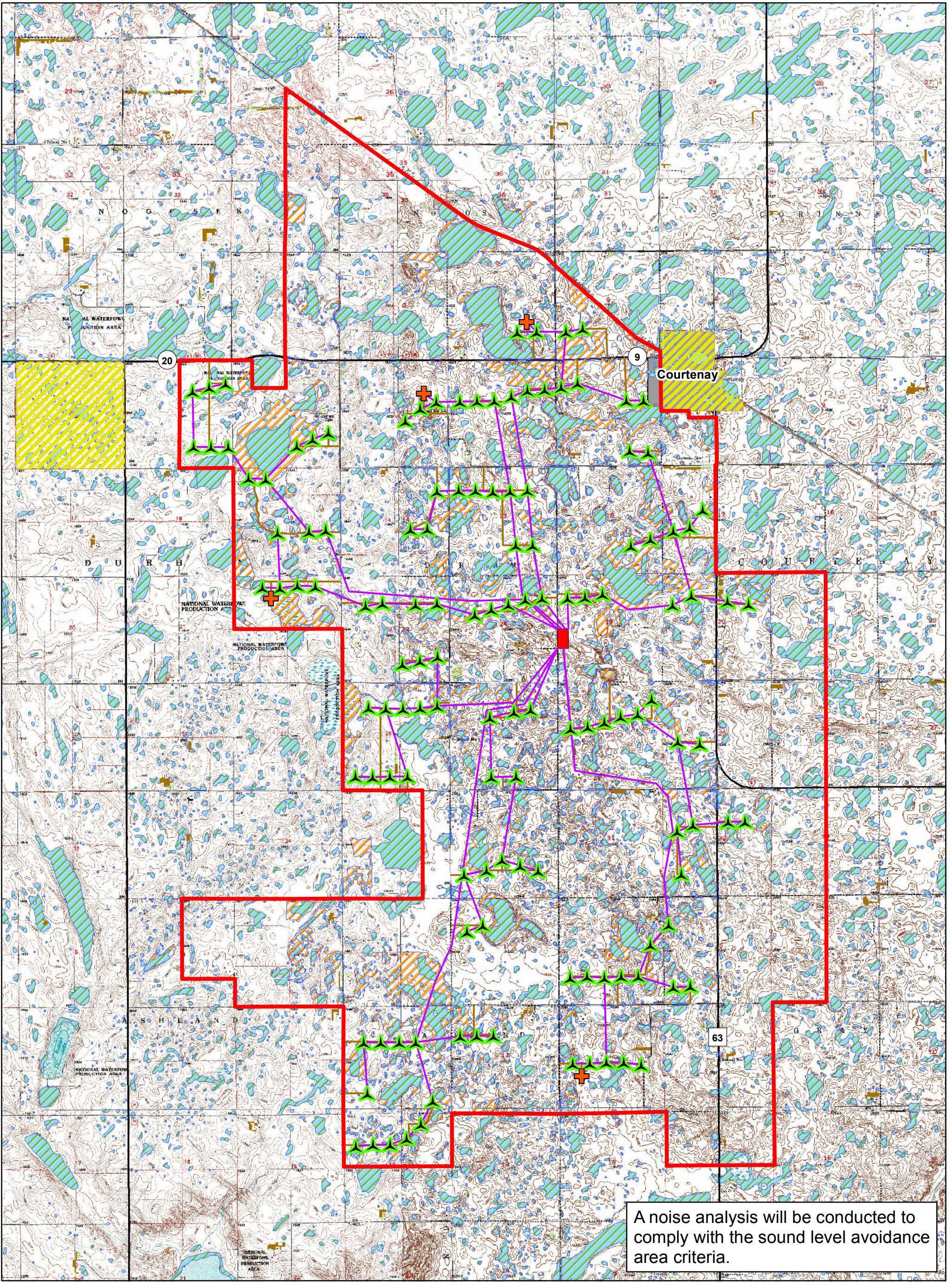
Stutsman County, ND

FIGURE 4
Preliminary Turbine Locations, Access Roads, Collector Lines

Courtenay Wind Farm
Stutsman County, North Dakota







- Permanent Met Towers
- Preliminary Project Layout
- Collector Lines
- Access Roads
- Wooded Area
- Historic Structures
- Wetland
- Delineated Wetlands
- Incorporated Cities
- Proposed Substation

0 0.25 0.5 1
Miles

Source: NGS USA Topo (2011), Ventyx, DOT, SSURGO (2012), FWS (2012), NLCD (2011), NWI (2012), Westwood

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COURTENAY WIND FARM
Stutsman County, ND

FIGURE 6
Avoidance Areas

Courtenay Wind Farm
Stutsman County, North Dakota



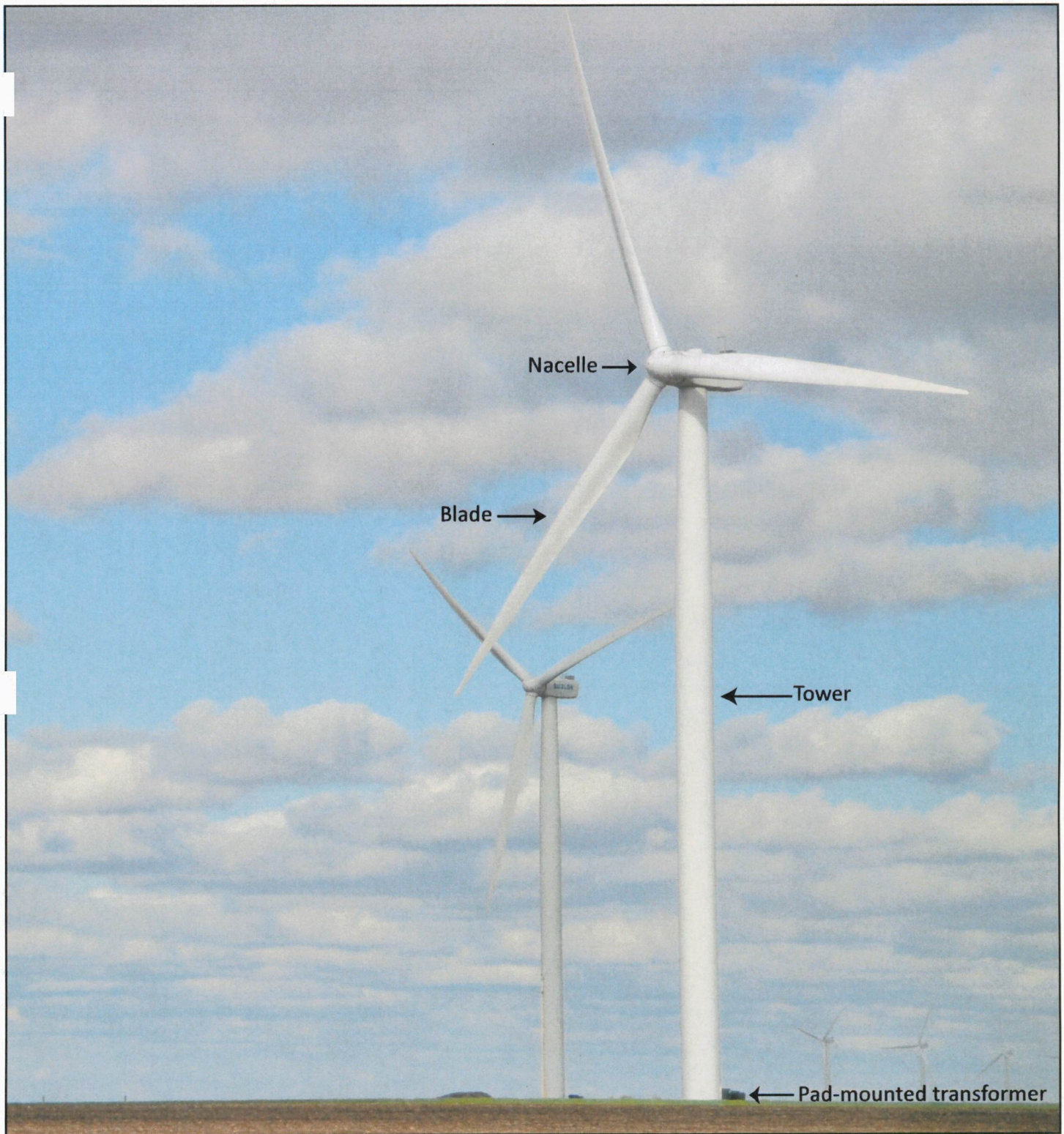
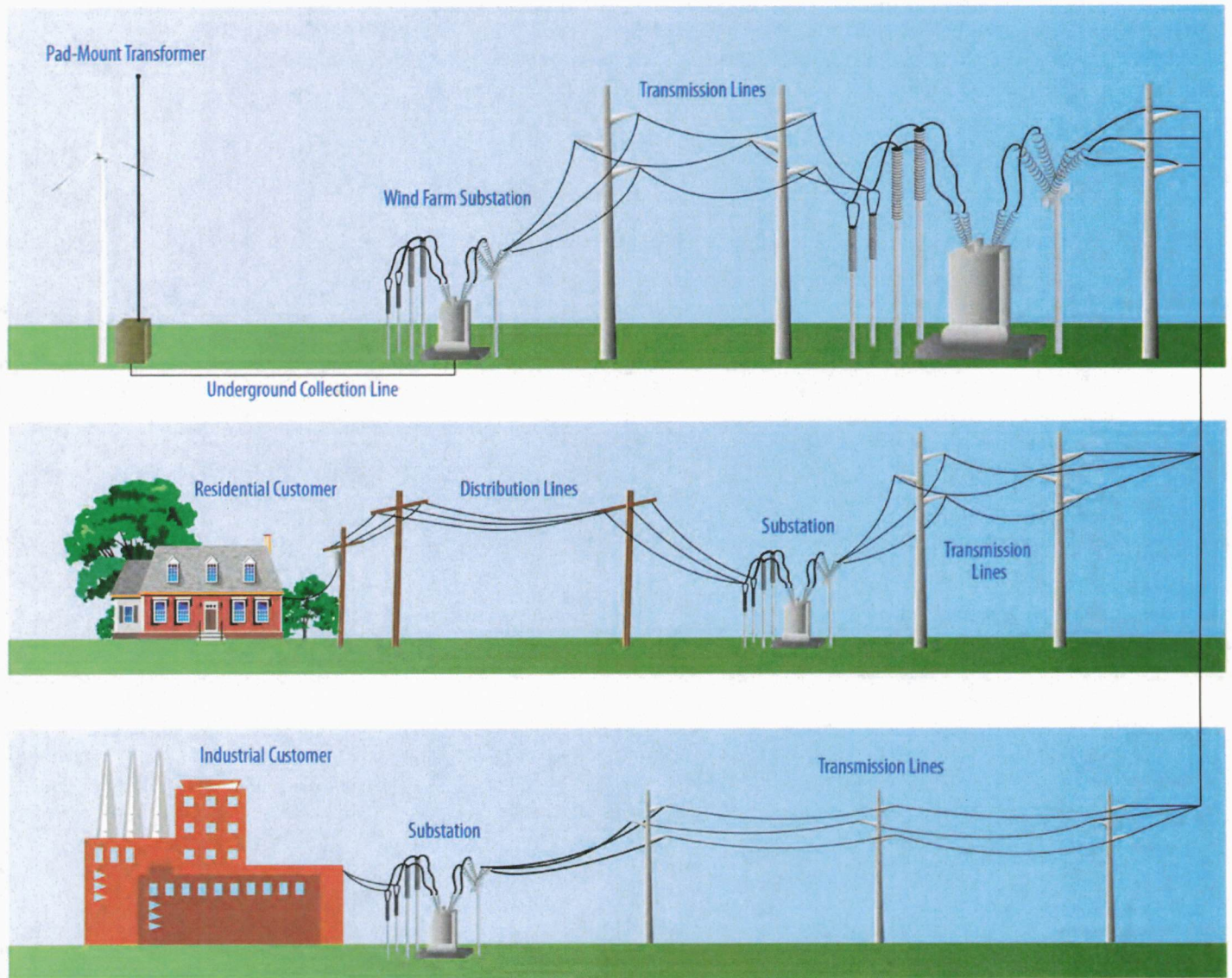


FIGURE 7
Typical Wind Turbine Design
Features

Courtenay Wind Farm
Stutsman County, North Dakota

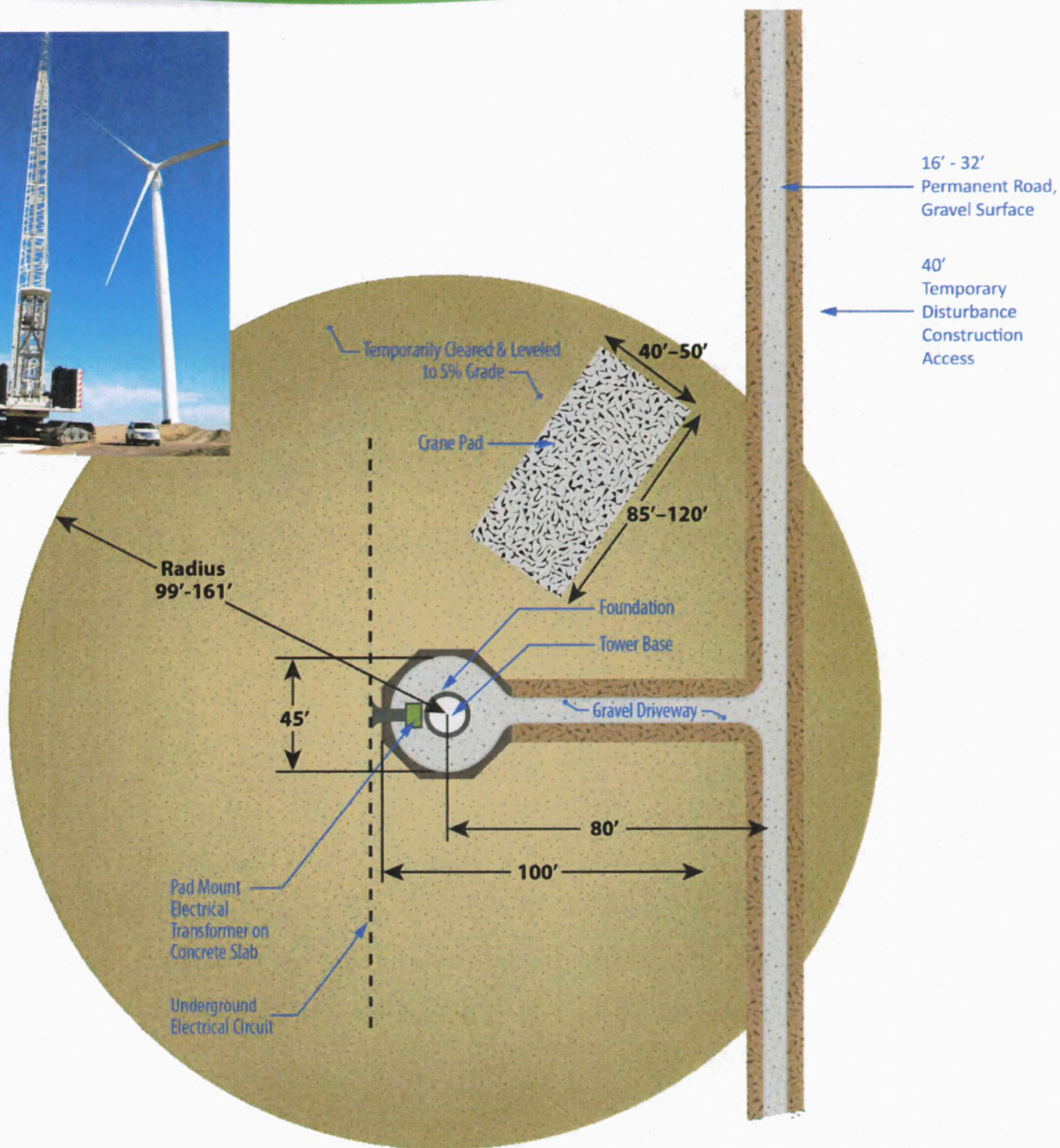



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WIND FARM
 Stutsman County, ND

FIGURE 8
Path of Energy Diagram

Courtenay Wind Farm
 Stutsman County, North Dakota

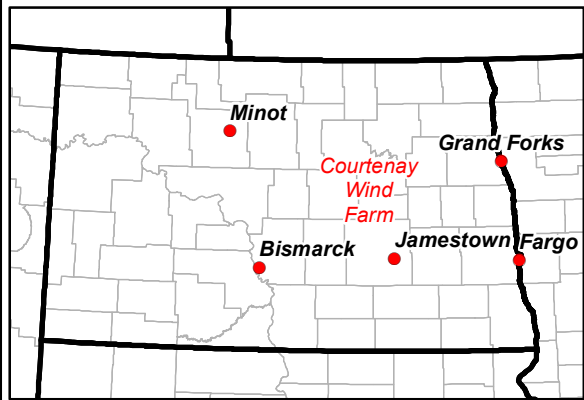
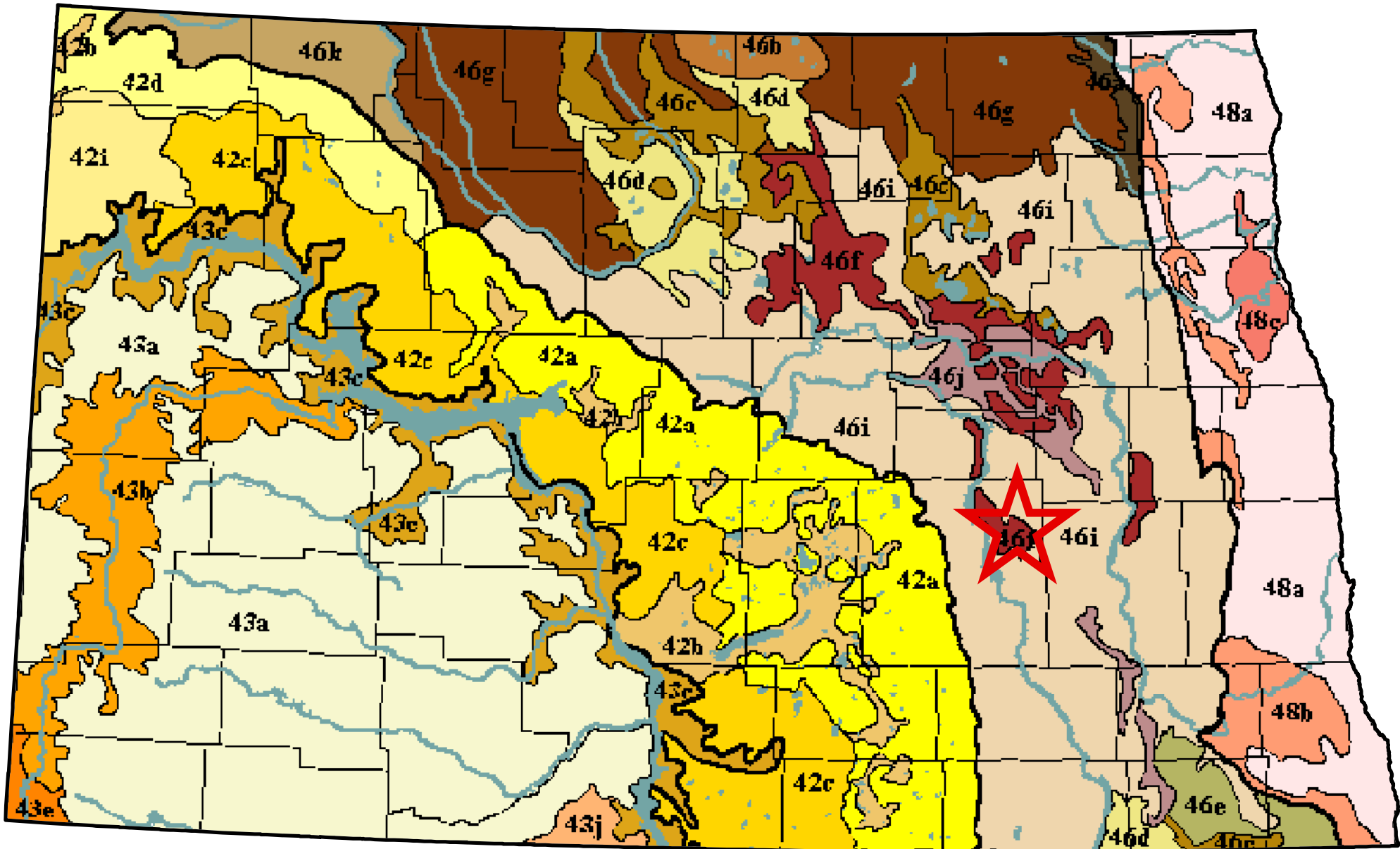



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 **COURTENAY**
WIND FARM
Stutsman County, ND

FIGURE 9
Typical Wind Turbine
Construction Site

Courtenay Wind Farm
Stutsman County, North Dakota



★ Courtenay Wind Farm

0 15 30 60
Miles

Source: USGS, Ventyx

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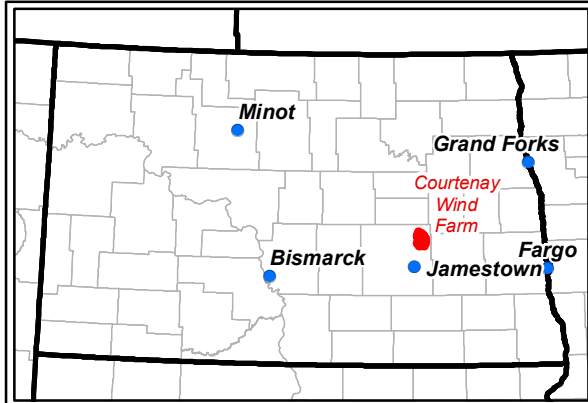
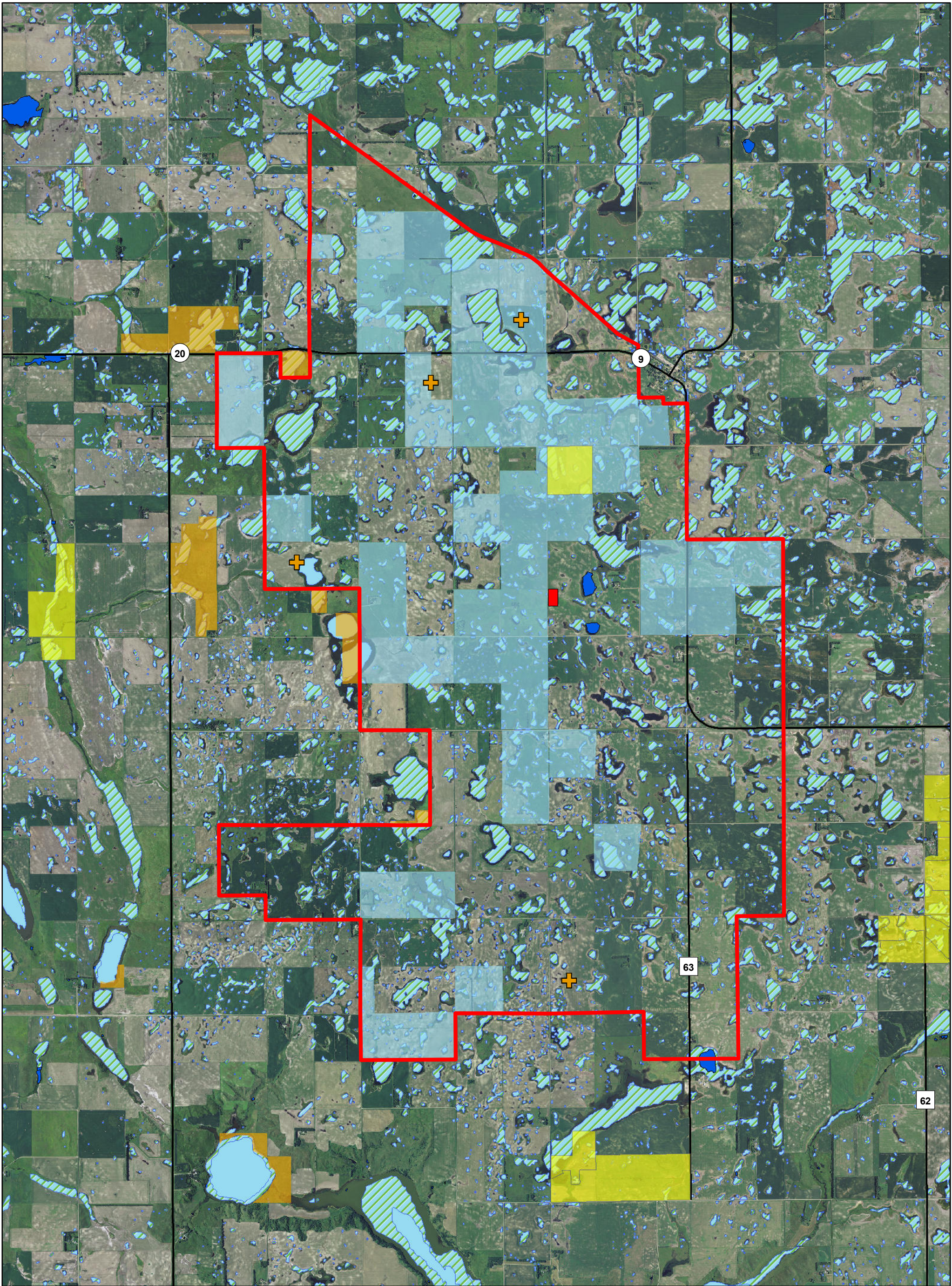
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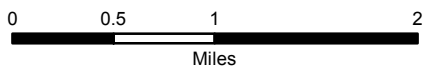
FIGURE 10
USGS Ecoregions

Courtenay Wind Farm
Stutsman County, North Dakota





- | | |
|---------------------------|-----------------------------------|
| Project Area | Proposed Substation |
| Permanent Met Towers | National Wetland Inventory |
| Waterfowl Production Area | Lake |
| Conservation PLOTS | Wetland |
| Wetland Easement | Freshwater Pond |



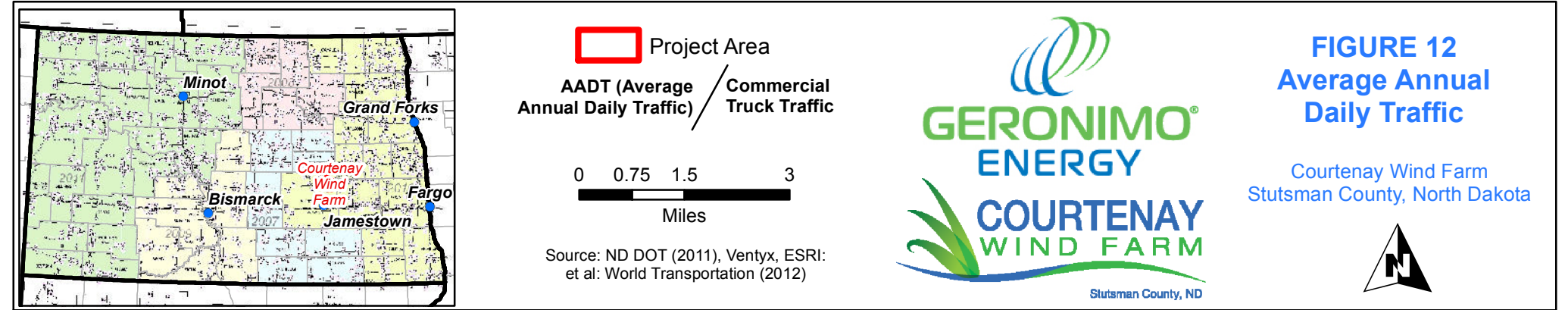
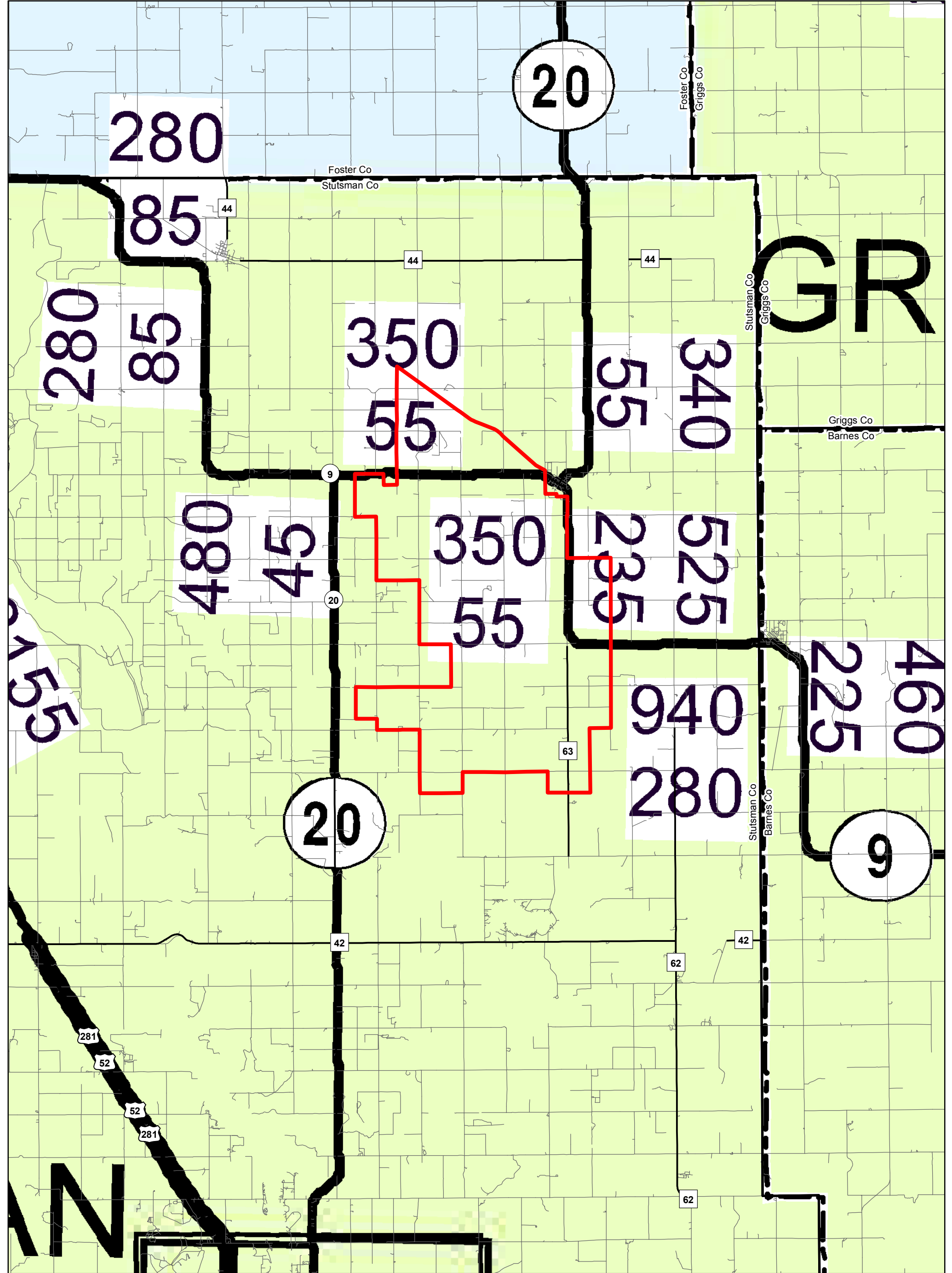
Source: NGS USA Topo (2011), Ventyx, ESRI et al: World Transportation (2012), FWS (2012)

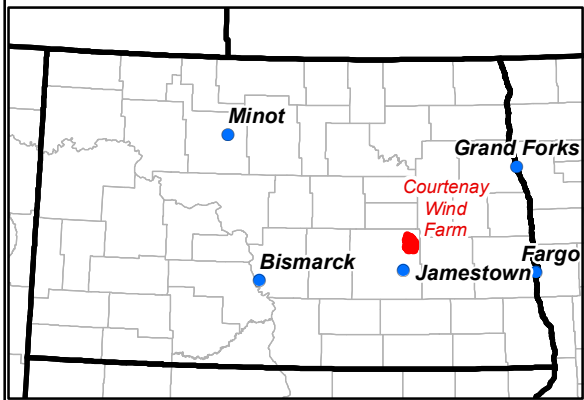
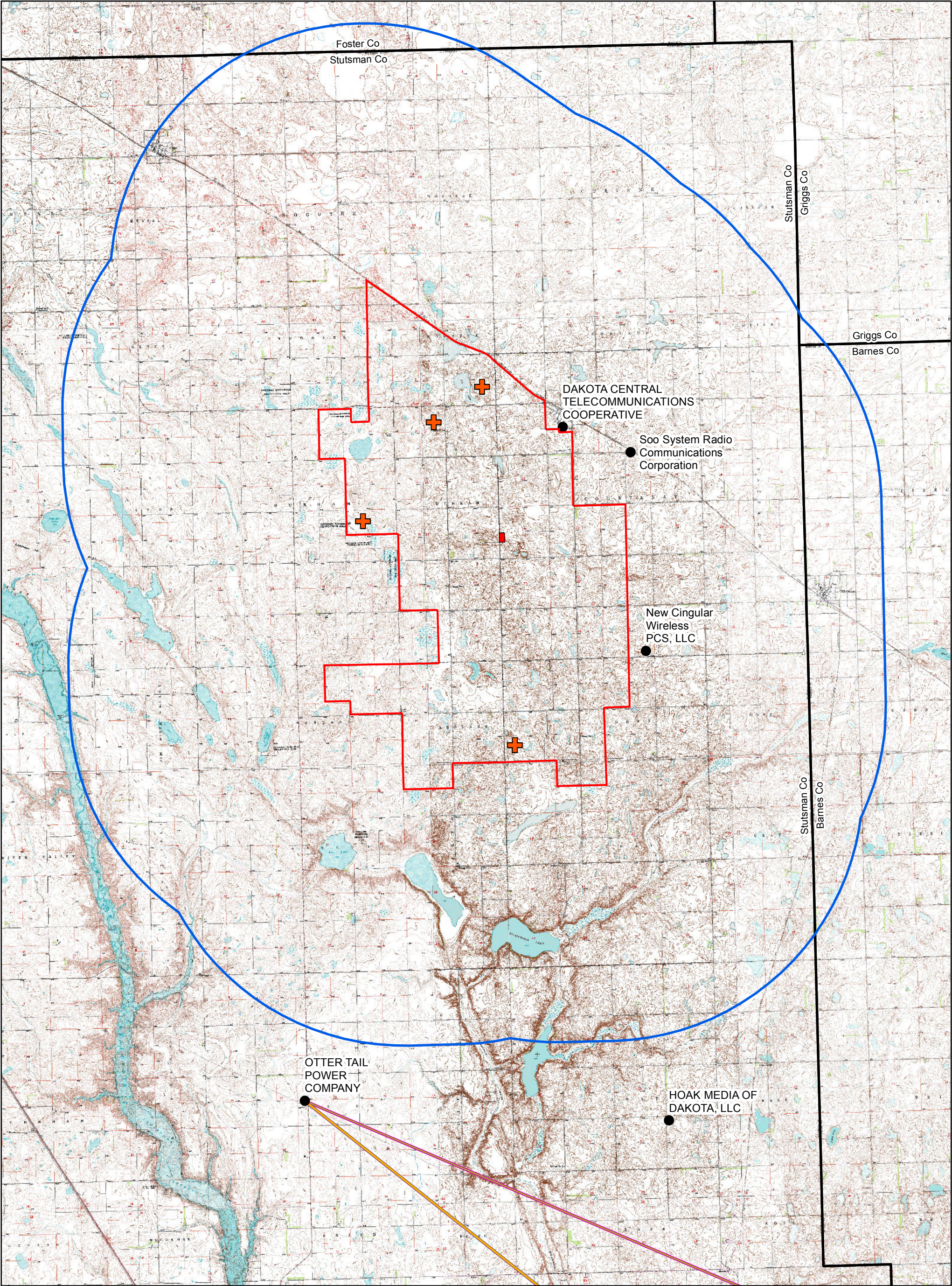


FIGURE 11
Public Lands and Easements

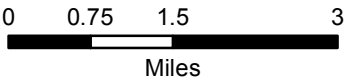
Courtenay Wind Farm
Stutsman County, North Dakota







- Project Area
- FCC: Antenna Registration System (ASR)
- Permanent Met Towers
- 5 mile Project Buffer
- Proposed Substation
- WCFZ
- Microwave Beam Path



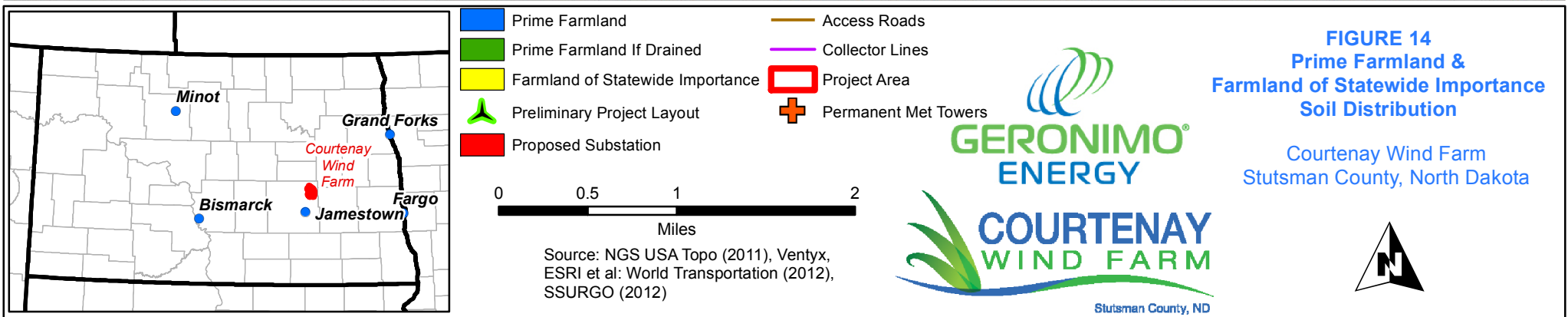
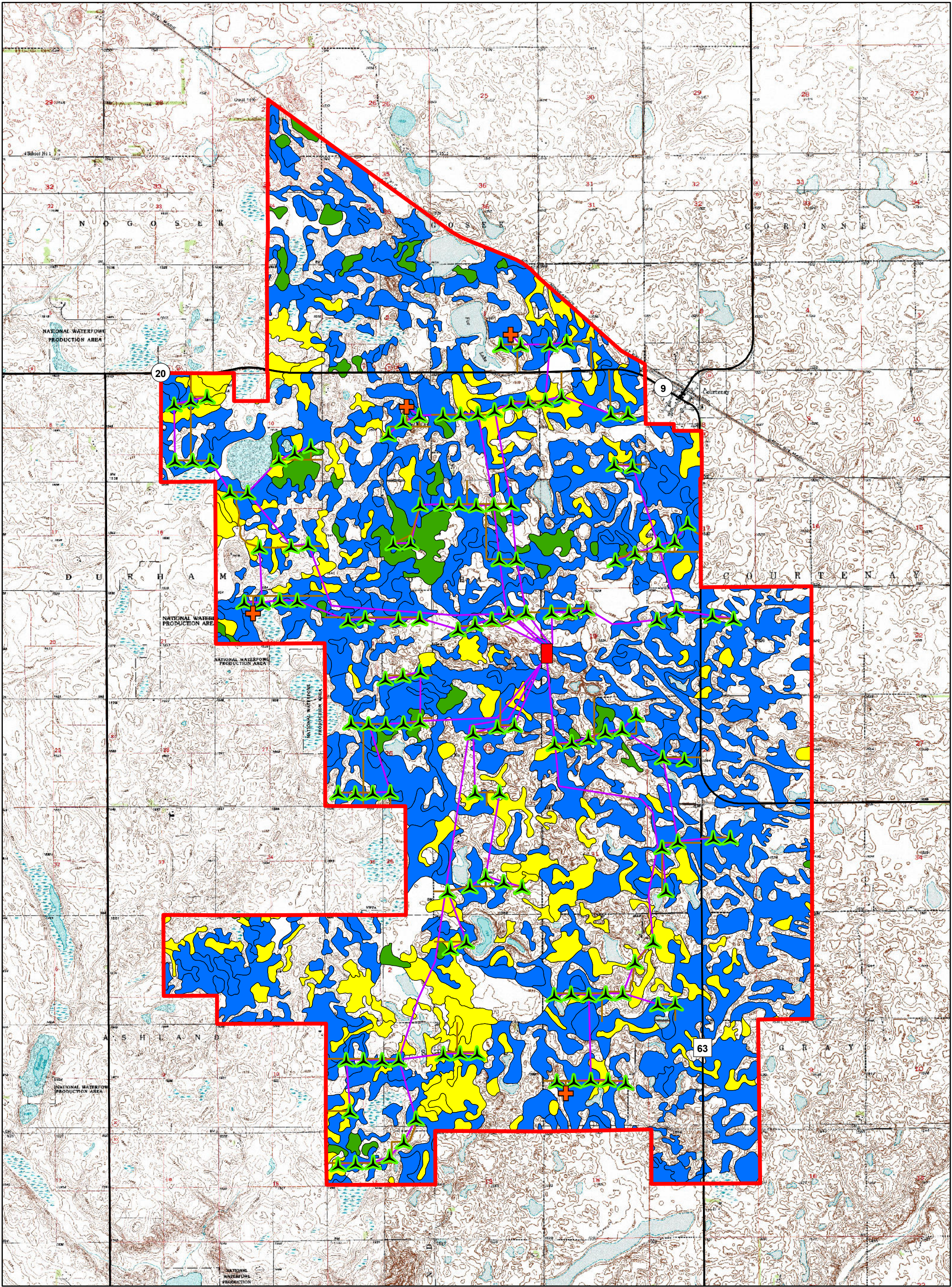
Source: USGS, Ventyx, FCC

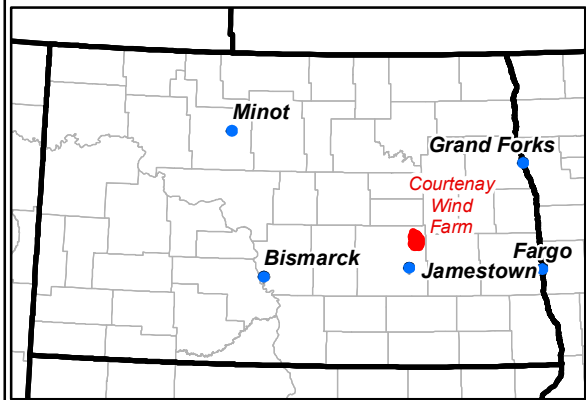
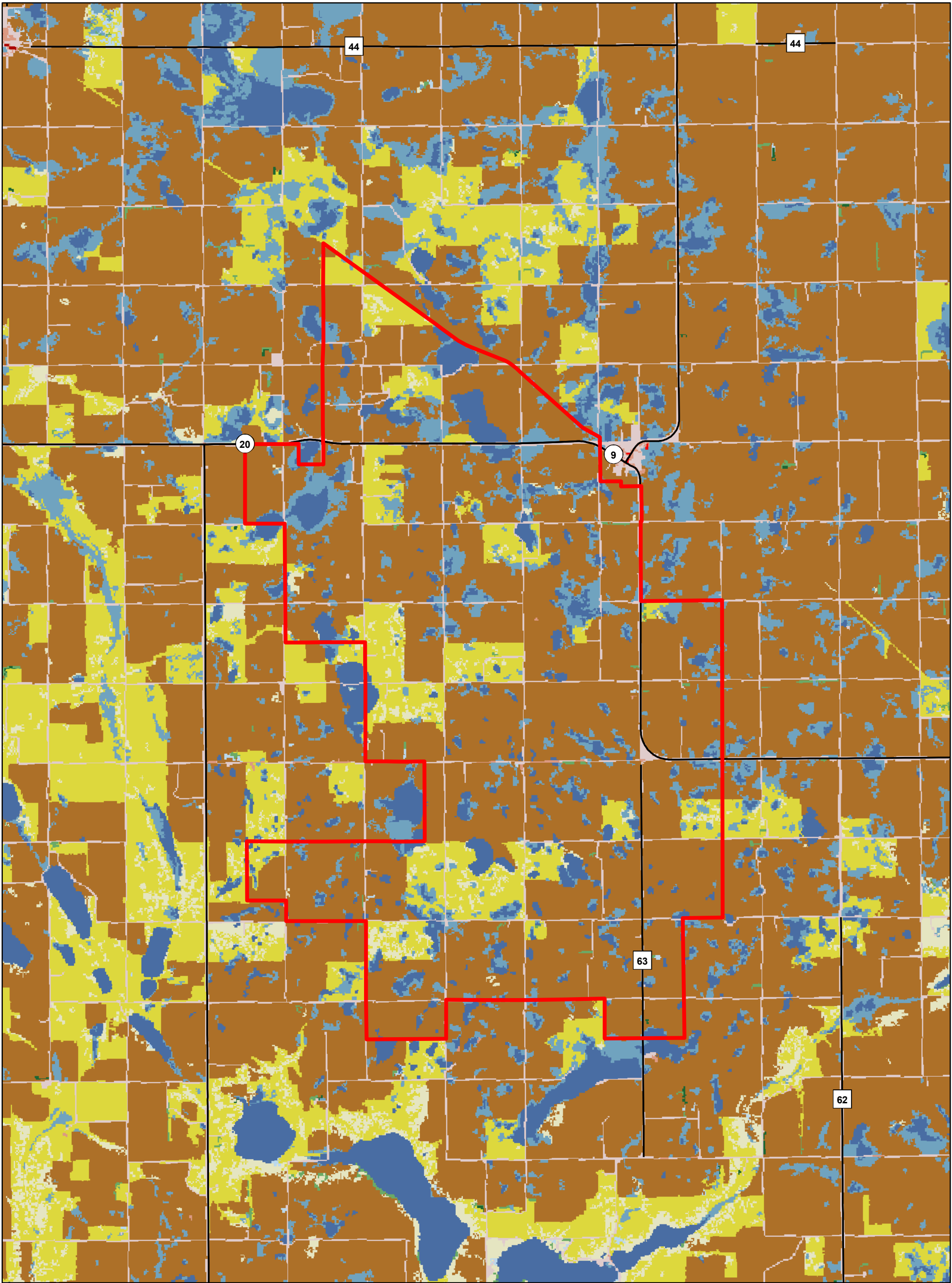


FIGURE 13
FCC

Courtenay Wind Farm
Stutsman County, North Dakota







- | | |
|-----------------------------|------------------------------|
| Barren Land | Emergent Herbaceous Wetlands |
| Cultivated Crops | Evergreen Forest |
| Deciduous Forest | Hay/Pasture |
| Developed, High Intensity | Herbaceous |
| Developed, Low Intensity | Open Water |
| Developed, Medium Intensity | Woody Wetlands |
| Developed, Open Space | |

0 0.5 1 2
Miles

Source: NGS USA Topo (2011), Ventyx,
ESRI et al: World Transportation (2012), NLCD (2011)

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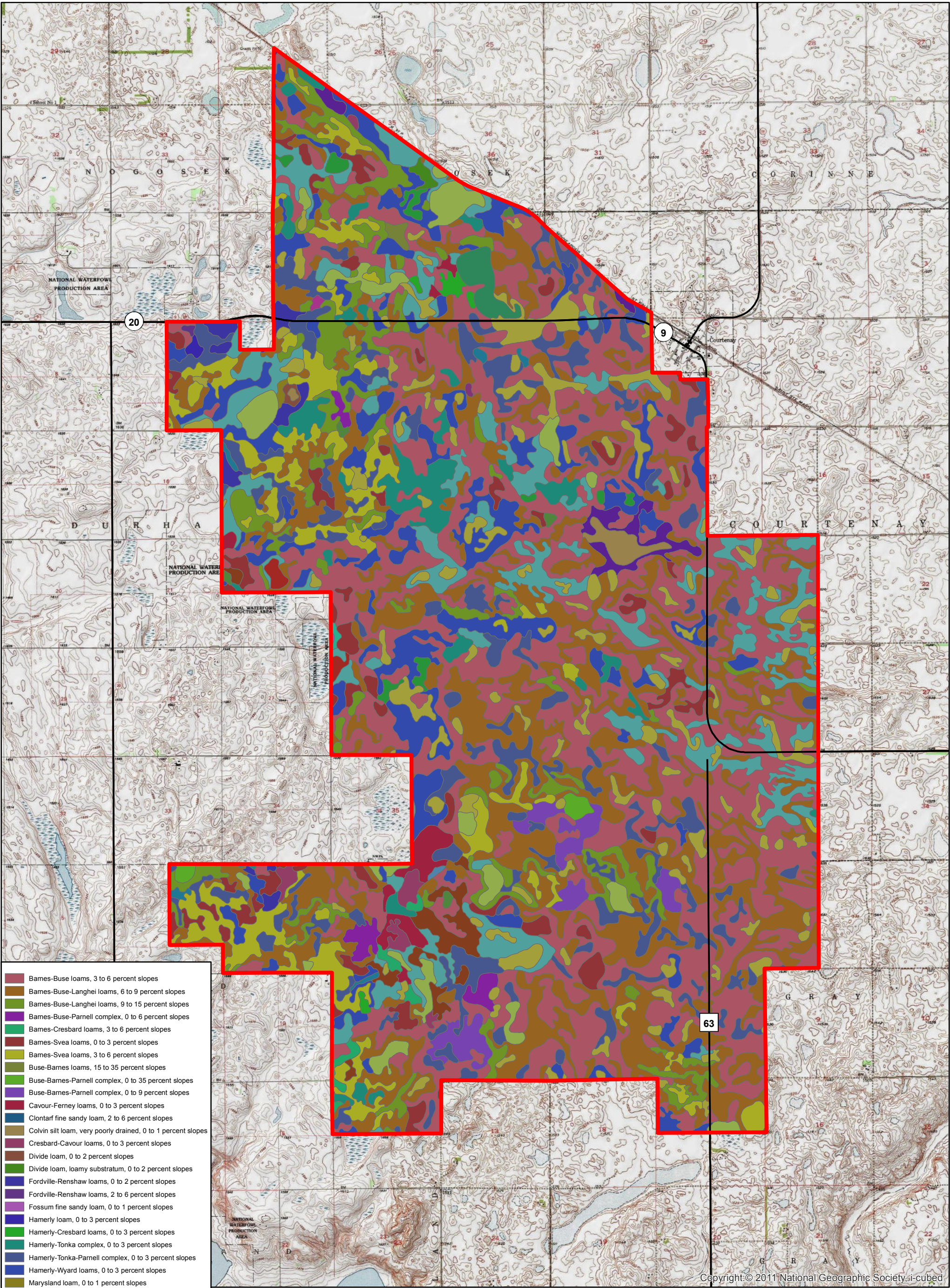
COURTENAY
WIND FARM

Stutsman County, ND

FIGURE 15 Land Cover

Courtenay Wind Farm
Stutsman County, North Dakota





- Barnes-Buse loams, 3 to 6 percent slopes
- Barnes-Buse-Langhei loams, 6 to 9 percent slopes
- Barnes-Buse-Langhei loams, 9 to 15 percent slopes
- Barnes-Buse-Parnell complex, 0 to 6 percent slopes
- Barnes-Cresbard loams, 3 to 6 percent slopes
- Barnes-Svea loams, 0 to 3 percent slopes
- Barnes-Svea loams, 3 to 6 percent slopes
- Buse-Barnes loams, 15 to 35 percent slopes
- Buse-Barnes-Parnell complex, 0 to 35 percent slopes
- Buse-Barnes-Parnell complex, 0 to 9 percent slopes
- Cavour-Ferney loams, 0 to 3 percent slopes
- Clontarf fine sandy loam, 2 to 6 percent slopes
- Colvin silt loam, very poorly drained, 0 to 1 percent slopes
- Cresbard-Cavour loams, 0 to 3 percent slopes
- Divide loam, 0 to 2 percent slopes
- Divide loam, loamy substratum, 0 to 2 percent slopes
- Fordville-Renshaw loams, 0 to 2 percent slopes
- Fordville-Renshaw loams, 2 to 6 percent slopes
- Fossum fine sandy loam, 0 to 1 percent slopes
- Hamerly loam, 0 to 3 percent slopes
- Hamerly-Cresbard loams, 0 to 3 percent slopes
- Hamerly-Tonka complex, 0 to 3 percent slopes
- Hamerly-Tonka-Parnell complex, 0 to 3 percent slopes
- Hamerly-Wyard loams, 0 to 3 percent slopes
- Marysland loam, 0 to 1 percent slopes
- Overly-Bearden silty clay loams, 0 to 2 percent slopes
- Parnell silty clay loam, 0 to 1 percent slopes
- Renshaw-Sioux complex, 2 to 6 percent slopes
- Sioux-Arvilla complex, 2 to 6 percent slopes
- Southam silty clay loam, 0 to 1 percent slopes
- Svea-Cresbard loams, 0 to 3 percent slopes
- Tonka silt loam, 0 to 1 percent slopes
- Vallers loam, 0 to 1 percent slopes
- Vallers-Hamerly loams, saline, 0 to 3 percent slopes
- Barnes-Sioux complex, 3 to 9 percent slopes
- Bearden-Colvin silt loams, saline, 0 to 2 percent slopes
- Buse-Sioux complex, 9 to 35 percent slopes
- Water
- Water, intermittent

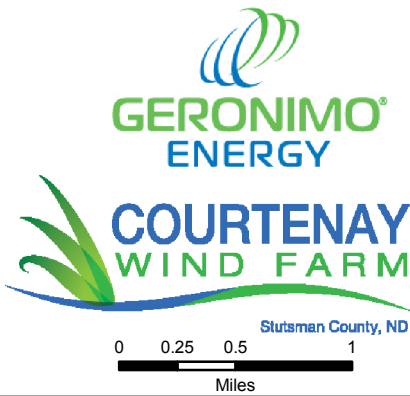
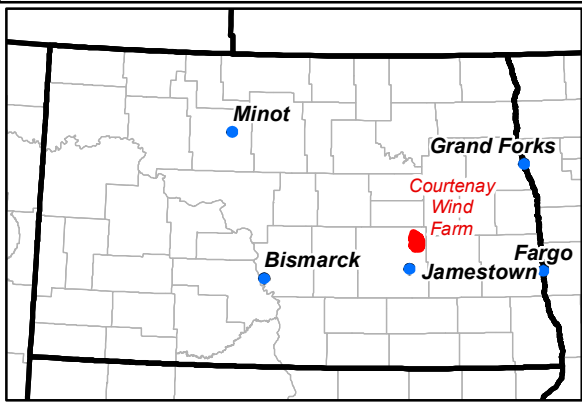
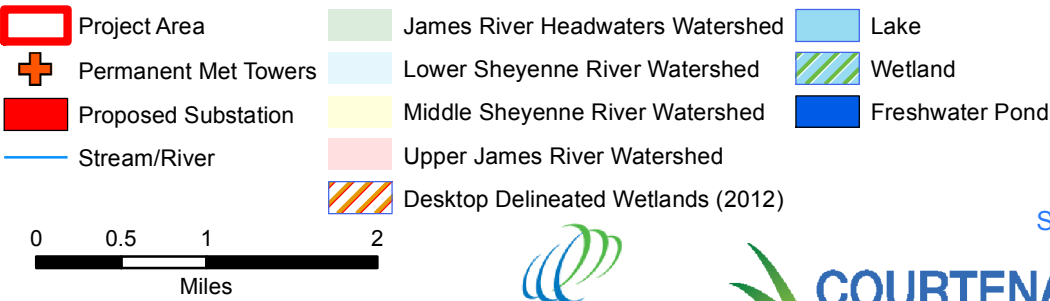
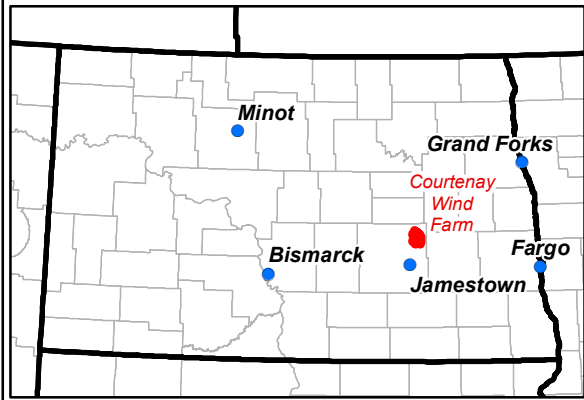
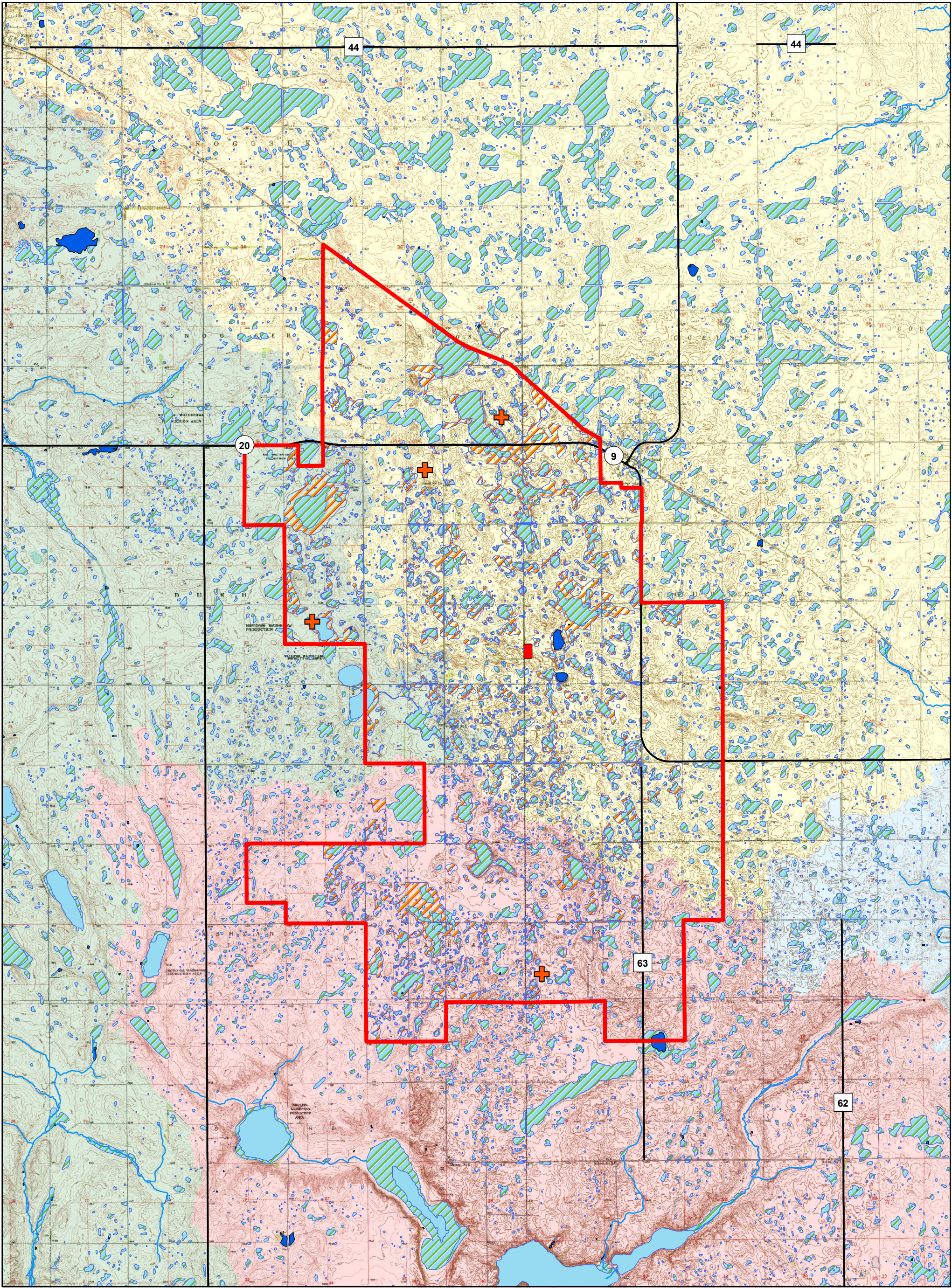


FIGURE 16
Soils
Courtenay Wind Farm
Stutsman County, North Dakota



Source: NGS USA Topo (2011), Ventyx, ESRI et al: World Transportation (2012), SSURGO (2012)

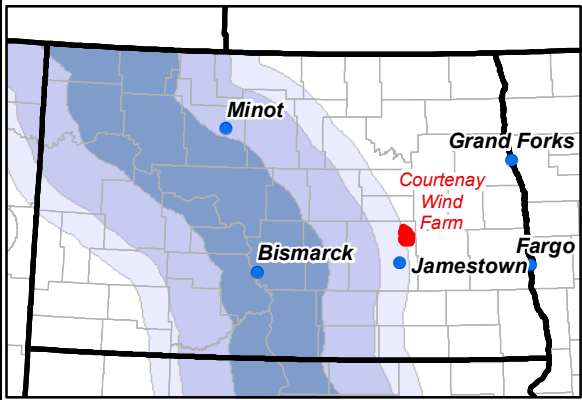
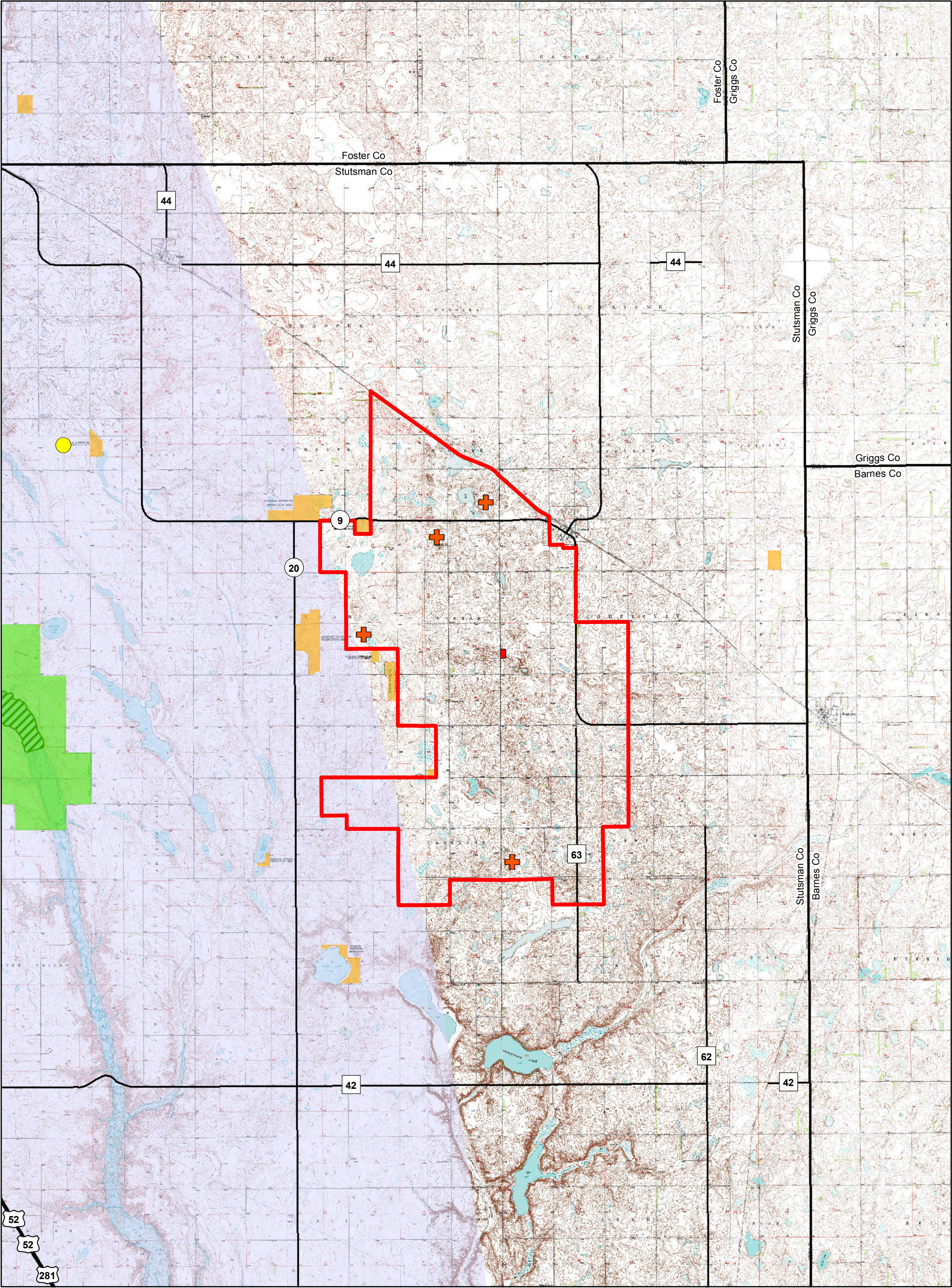


Source: NGS USA Topo (2011), Ventyx, ESRI et al: World Transportation (2012), NWI (2012), Westwood

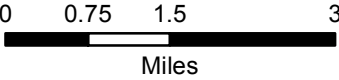


FIGURE 17
Wetlands and
Surface Waters

Courtenay Wind Farm
Stutsman County, North Dakota



- Project Area
- Piping Plover Critical Habitat
- Waterfowl Production Area
- National Wildlife Refuge
- Proposed Substation
- Permanent Met Towers
- Confirmed Whooping Crane Sightings



**Whooping Crane Corridor
Occurrence Probability**

- 74.1388%
- 90.1285%
- 94.8072%



**FIGURE 18
Natural Resources**

Courtenay Wind Farm
Stutsman County, North Dakota



Source: NGS USA Topo (2011), Ventyx, ESRI et al: World Transportation (2012), USFWS Piping Plover Critical Habitat and Whooping Crane Sightings (1943 through Fall 2010)

