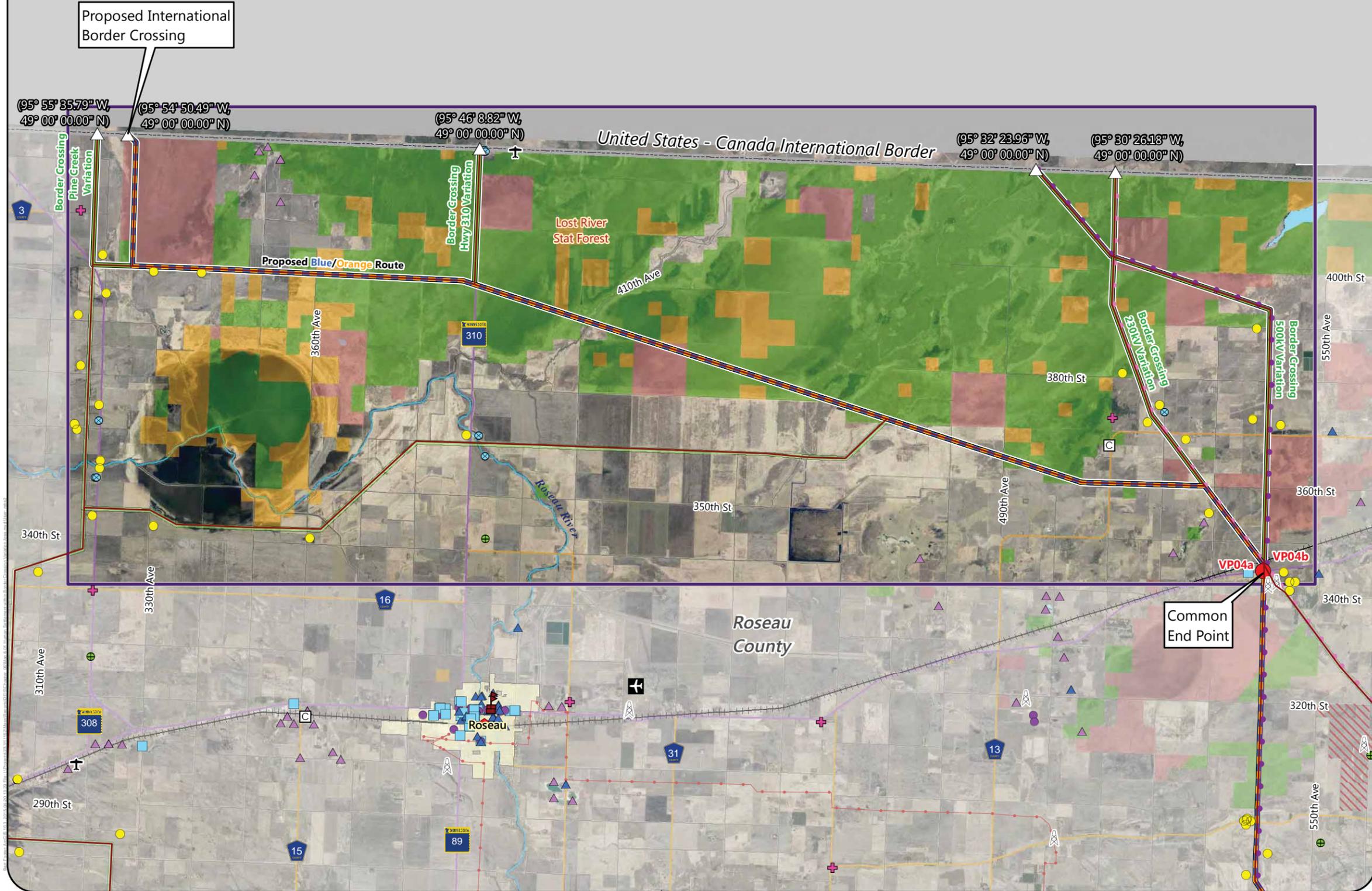


Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.



- △ Border Crossing Point
- Visual Simulation Viewpoint
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- School
- Residences Within 1,500 Feet of Anticipated Alignment
- Church
- Cemetery
- Airstrip
- Airport
- Aggregate Source Location
- Mineral Exploration/Engineering Drillhole
- County Well Index Within 1,500 Feet of Anticipated Alignment
- Communication Tower
- MPCA Database**
- Hazardous Waste
- Investigation and Cleanup
- Tanks and Leaks
- Multiple Activities
- Railroad
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Inactive Mineral Lease
- State Fee Lands by Type**
- Consolidated Conservation
- Other - Acquired, Tax Forfeit, Volstead
- Trust Fund
- International Boundary

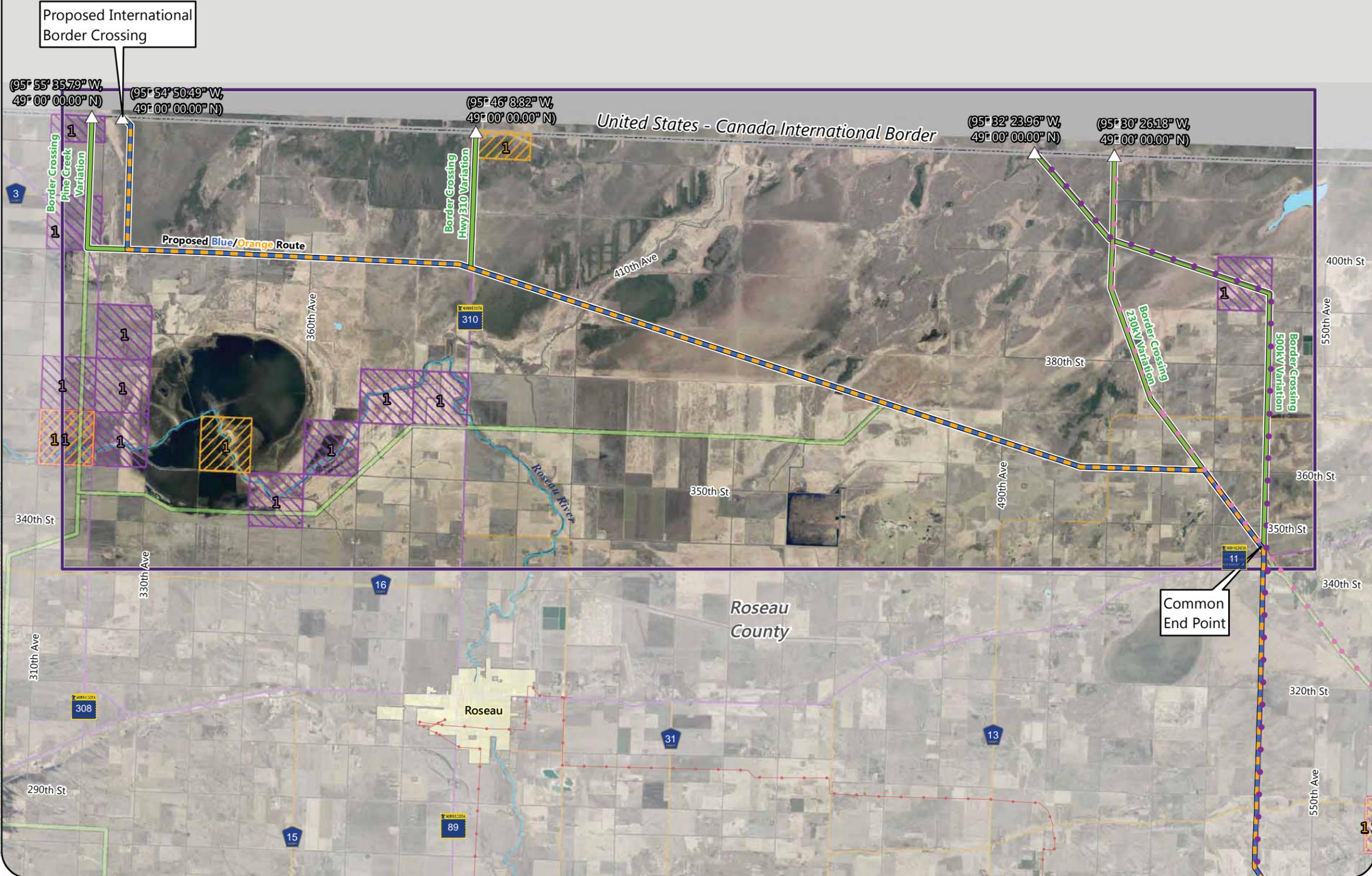


**HUMAN SETTLEMENT WITHIN BORDER CROSSING VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement



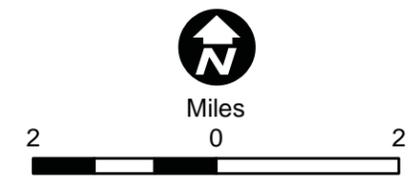
Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

Manitoba



- △ Border Crossing Point
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Section Containing Cultural Resource\***
- Historic Architectural Sites
- Archaeological Sites
- Historic Architectural and Archaeological Sites
- Municipal Boundary
- International Boundary

\*Note: Labeled with number of records found by inventory type.



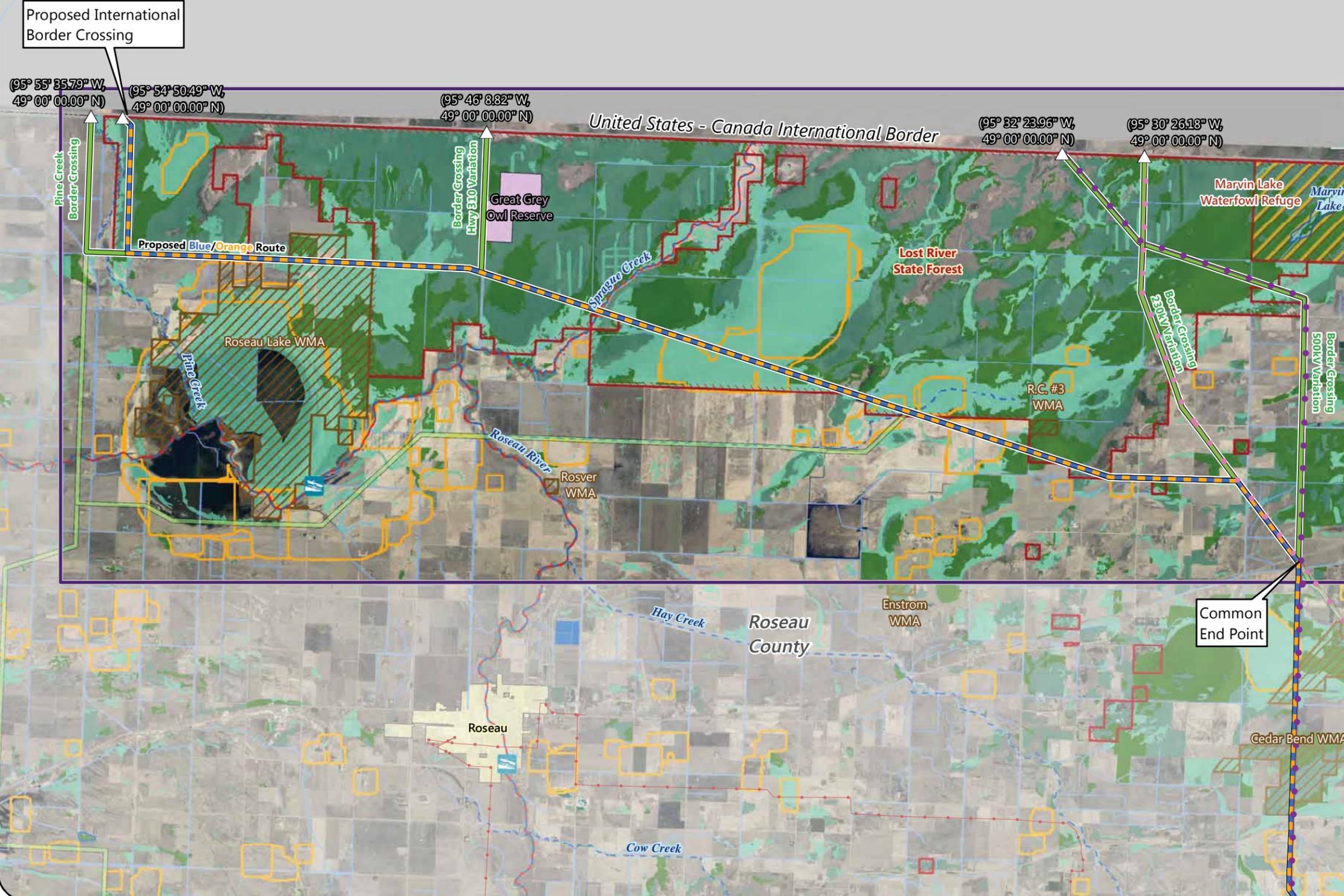
Map 6-2

**CULTURAL RESOURCES WITHIN BORDER CROSSING VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement



Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

Manitoba



- △ Border Crossing Point
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Trailer Launch Water Access
- NHD Watercourse
- PWI Watercourse
- MPCA Impaired Stream
- NHD Waterbody
- PWI Waterbody
- Shallow Lake
- Great Grey Owl Reserve
- State Game Refuge
- Wildlife Management Area (WMA)
- State Forest Boundary
- Grassland Bird Conservation Core Areas
- National Wetland Inventory**
- PUB, Freshwater Pond & Other
- PUS, Other
- PEM, Freshwater Emergent Wetland
- PFO, Freshwater Forested/Shrub Wetland
- PSS, Freshwater Forested/Shrub Wetland
- Lake
- Riverine
- Municipal Boundary
- International Boundary



Map 6-3

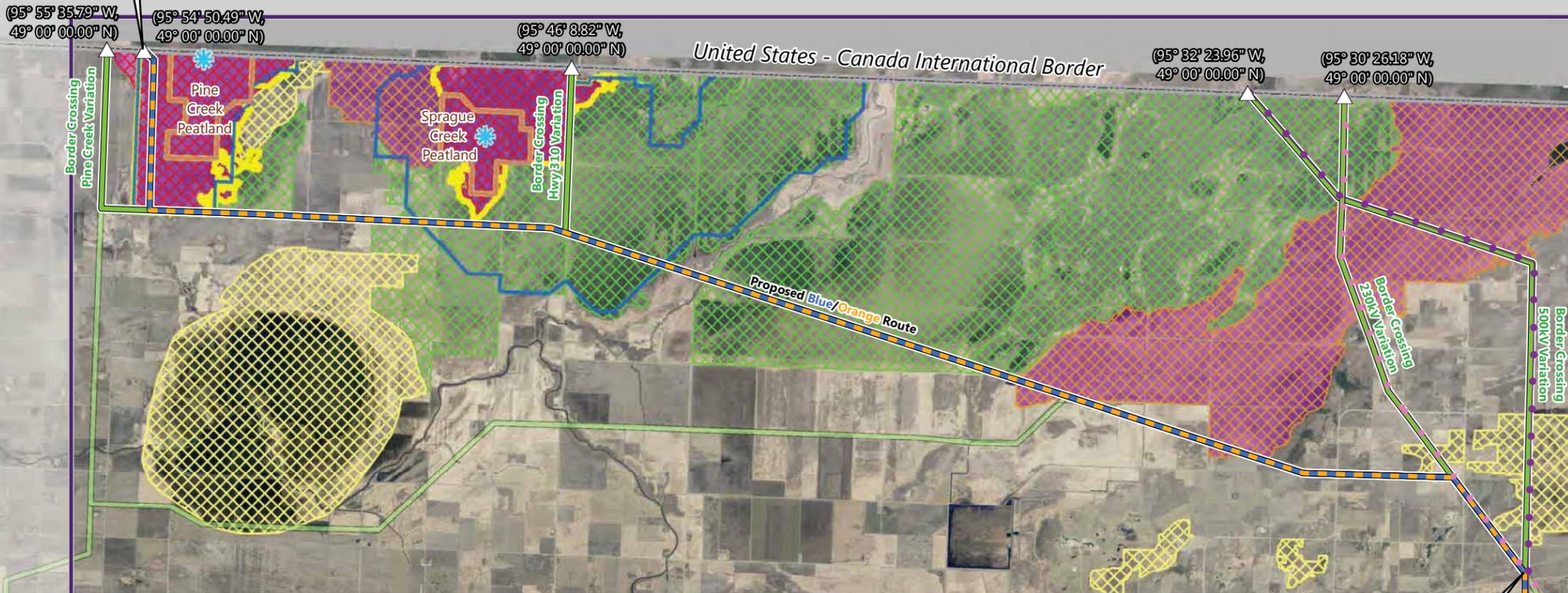
**WATER AND WILDLIFE  
RESOURCES WITHIN BORDER  
CROSSING VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement



Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

Manitoba

Proposed International Border Crossing



- △ Border Crossing Point
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Approximate Calcareous Fen Location
- Scientific and Natural Area (SNA)
- Preliminary Peatland SNA Watershed Protection Area
- High Conservation Value Forest
- Native Plant Community (Data only available for Roseau County)
- Site of Biodiversity Significance** (Ranks Preliminary Except for Roseau County)
- Below Minimum Significance
- Moderate Significance
- High Significance
- Outstanding Significance
- Municipal Boundary
- International Boundary



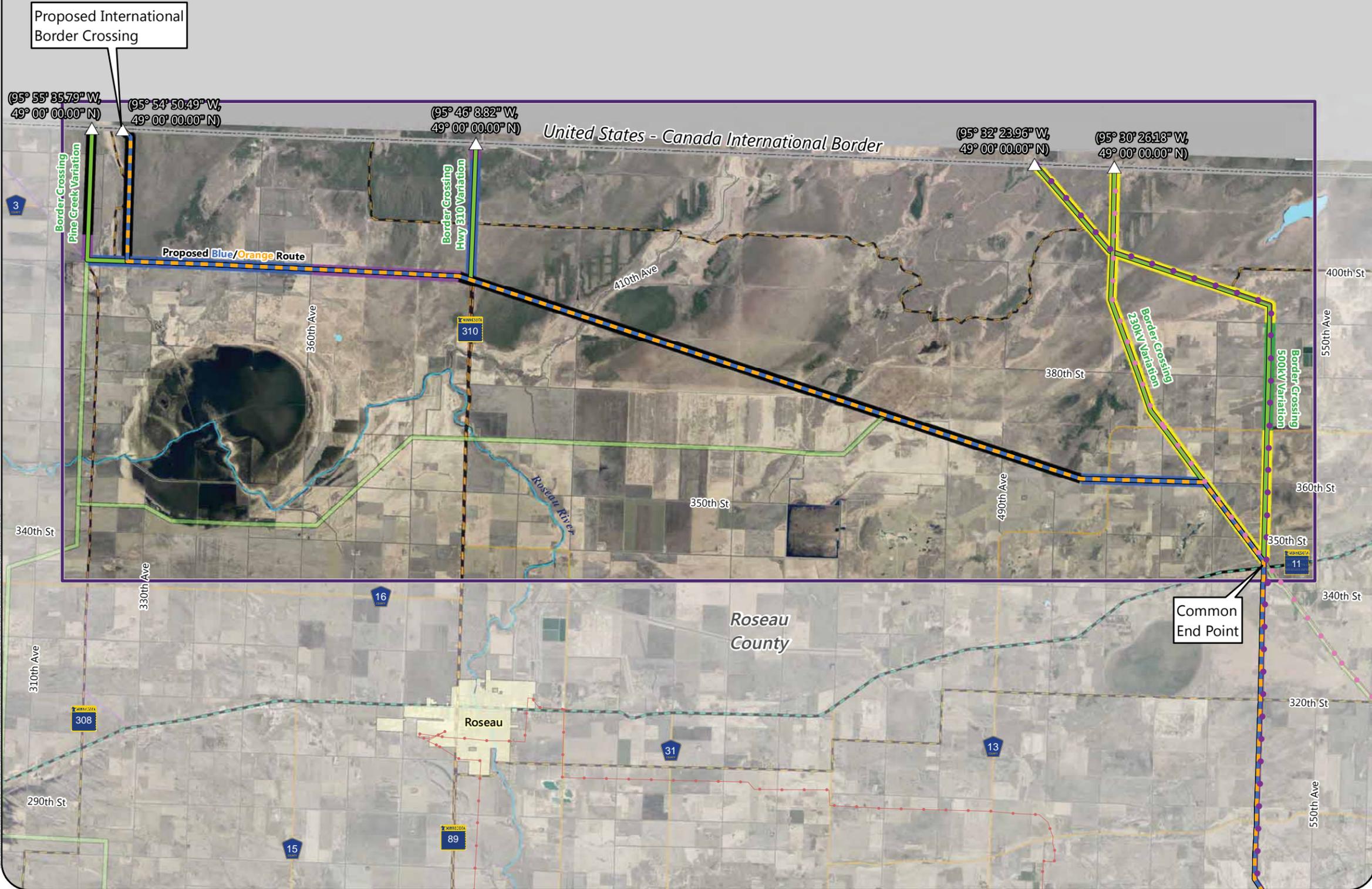
Map 6-4

**RARE AND UNIQUE NATURAL RESOURCES WITHIN BORDER CROSSING VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement



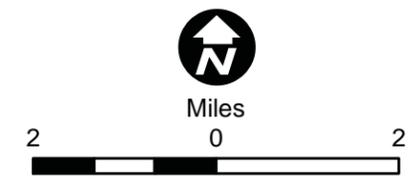
Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

Manitoba



- △ Border Crossing Point
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Snowmobile Trail
- Scenic Byway
- Corridor Sharing by Category\***
- Existing Transmission Line
- Road
- Existing Transmission Line & Road
- Field Line, Section Line, or Trail
- None
- Municipal Boundary
- International Boundary

\*Note: Not all corridor sharing combinations shown



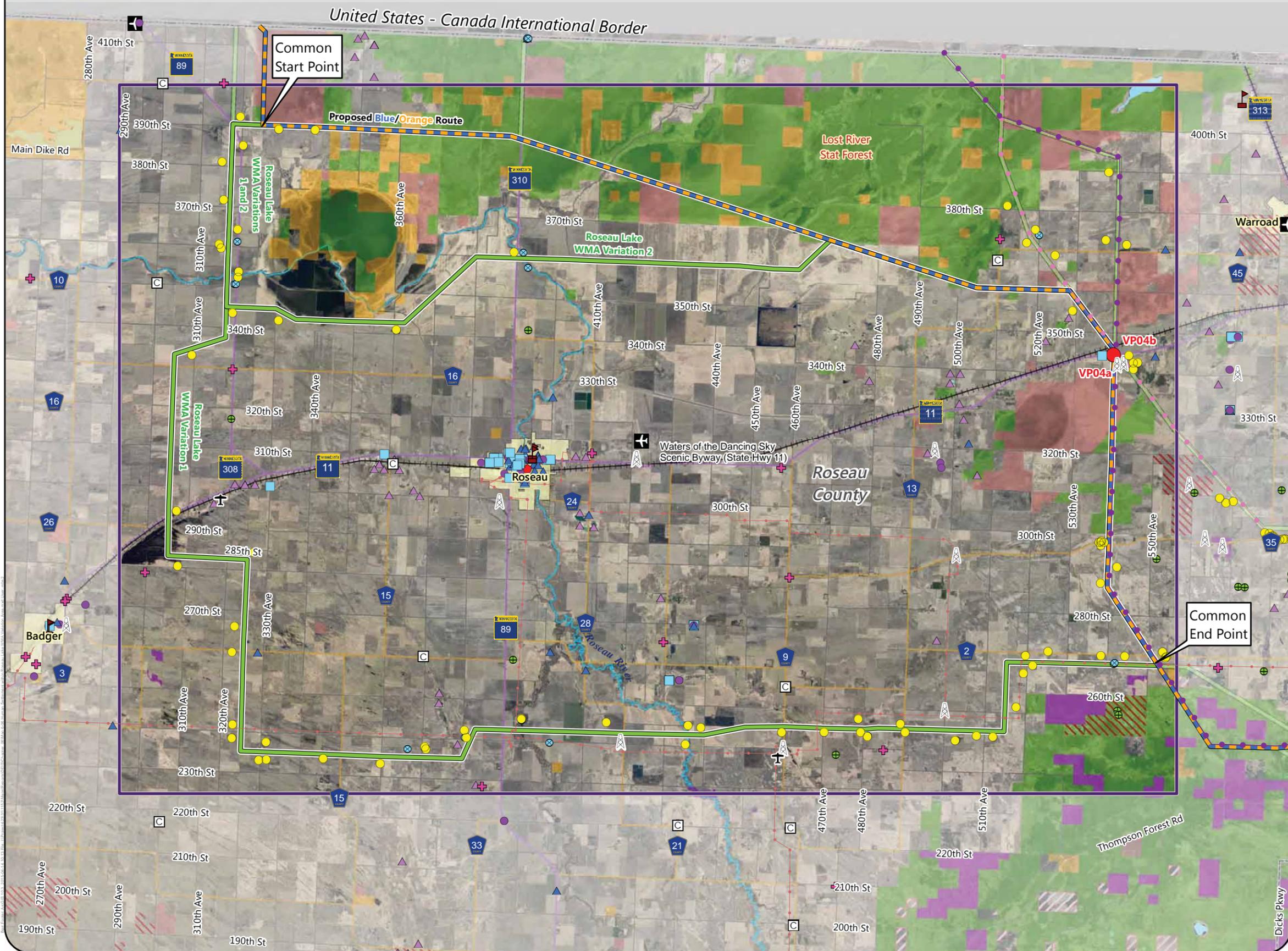
Map 6-5

**CORRIDOR SHARING WITHIN  
BORDER CROSSING VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement

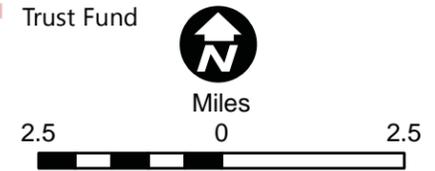


Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

# Manitoba



- Visual Simulation Viewpoint
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- School
- Residences Within 1,500 Feet of Anticipated Alignment
- Church
- Cemetery
- Airstrip
- Airport
- Aggregate Source Location
- Mineral Exploration/Engineering Drillhole
- County Well Index Within 1,500 Feet of Anticipated Alignment
- Communication Tower
- MPCA Database**
- Hazardous Waste
- Investigation and Cleanup
- Tanks and Leaks
- Multiple Activities
- Railroad
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Inactive Mineral Lease
- Indian Reservation Land
- USFWS Interest Lands
- State Fee Lands by Type**
- Consolidated Conservation
- Federal - State Lease
- Other - Aquired, Tax Forfeit, Volstead
- Trust Fund



## HUMAN SETTLEMENT WITHIN ROSEAU LAKE WMA VARIATION AREA

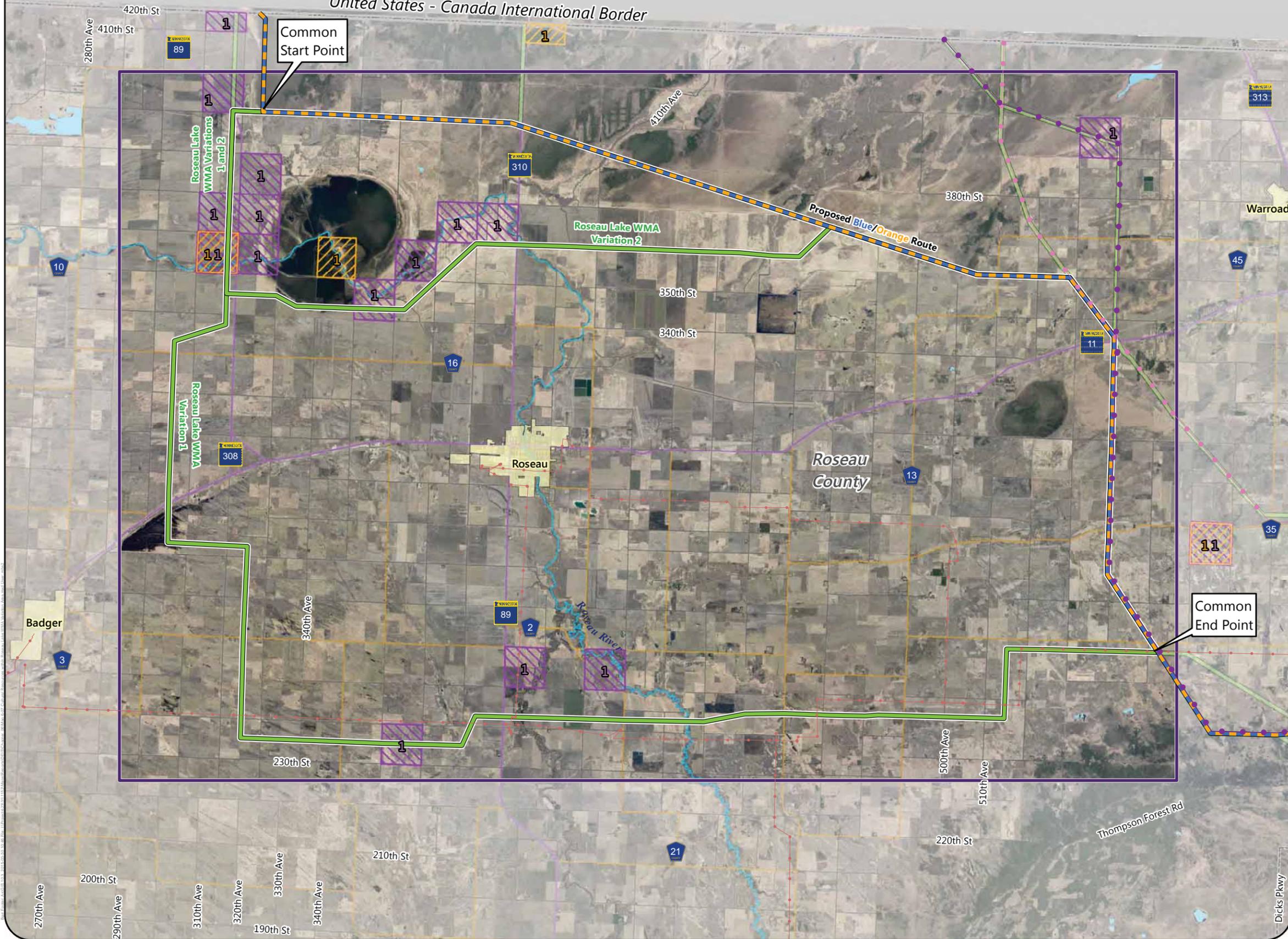
Great Northern Transmission Line  
Draft Environmental Impact Statement



Note:  
The Applicant will be issued a route permit with a specific Route Width. The proposed route widths are shown in Appendix S.

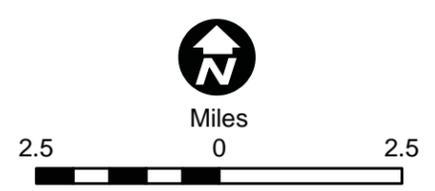
# Manitoba

United States - Canada International Border



- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Section Containing Cultural Resource\***
- Historic Architectural Sites
- Archaeological Sites
- Historic Architectural and Archaeological Sites
- Municipal Boundary
- International Boundary

\*Note: Labeled with number of records found by inventory type.



Map 6-7

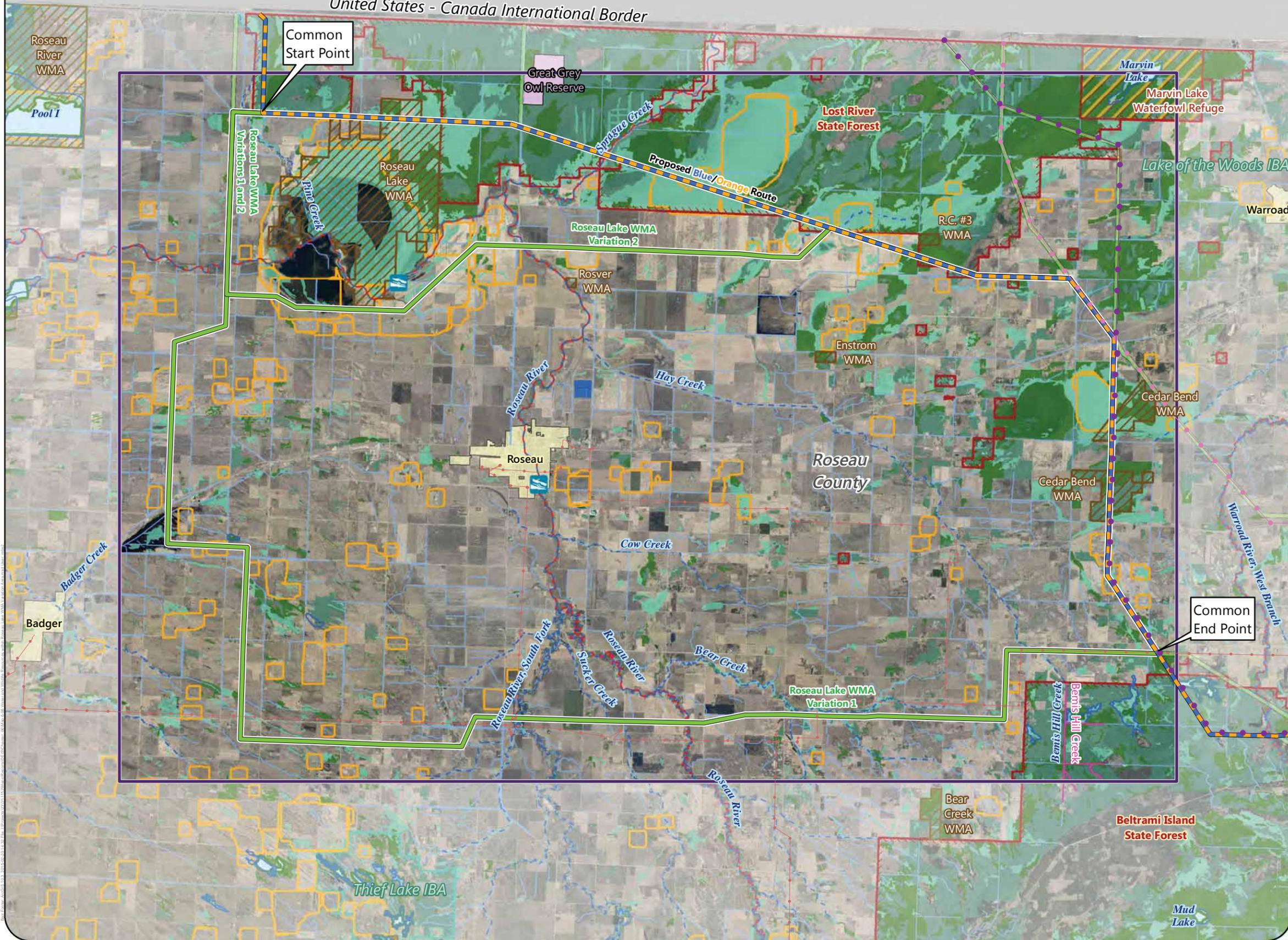
**CULTURAL RESOURCES WITHIN ROSEAU LAKE WMA VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement



Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

# Manitoba

United States - Canada International Border



- Proposed Route**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Trailer Launch Water Access
- NHD Watercourse
- PWI Watercourse
- Trout Stream
- MPCA Impaired Stream
- NHD Waterbody
- PWI Waterbody
- Shallow Lake
- Great Grey Owl Reserve
- State Game Refuge
- Wildlife Management Area (WMA)
- State Forest Boundary
- Grassland Bird Conservation Core Areas
- Audubon Society Important Bird Areas
- National Wetland Inventory**
- PUB, Freshwater Pond & Other
- PUS, Other
- PEM, Freshwater Emergent Wetland
- PFO, Freshwater Forested/Shrub Wetland
- PSS, Freshwater Forested/Shrub Wetland
- Lake
- Riverine
- Municipal Boundary
- International Boundary



Map 6-8

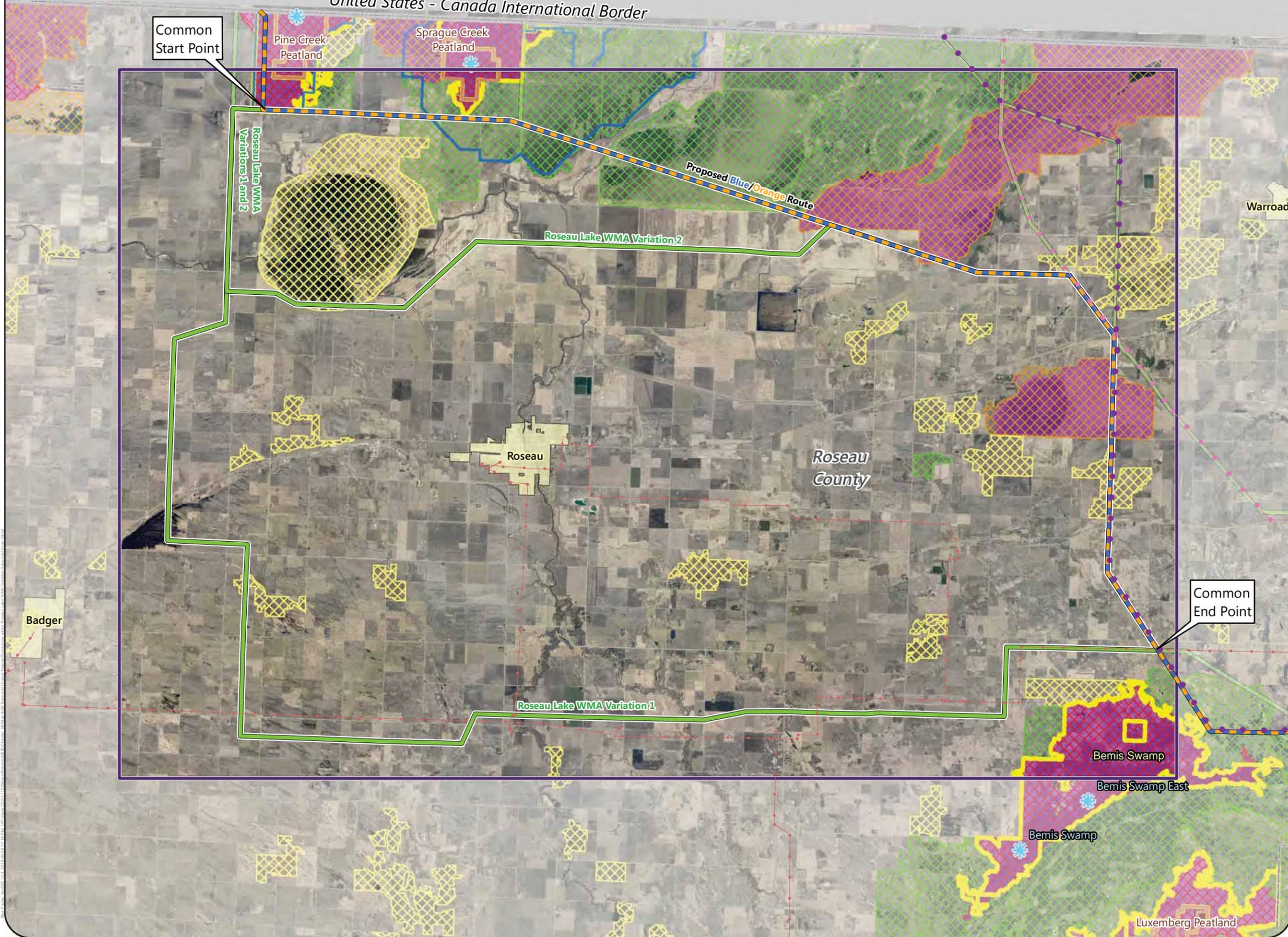
**WATER AND WILDLIFE RESOURCES  
WITHIN ROSEAU LAKE WMA  
VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement



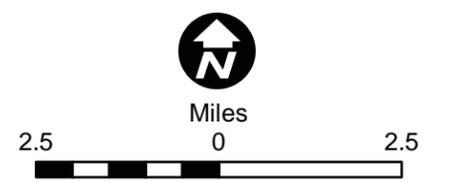
Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

# Manitoba

United States - Canada International Border



- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Approximate Calcareous Fen Location
- Scientific and Natural Area (SNA)
- Preliminary Peatland SNA Watershed Protection Area
- High Conservation Value Forest
- Native Plant Community (Data only available for Roseau County)
- Site of Biodiversity Significance** (Ranks Preliminary Except for Roseau County)
- Below Minimum Significance
- Moderate Significance
- High Significance
- Outstanding Significance
- Municipal Boundary
- International Boundary



Map 6-9

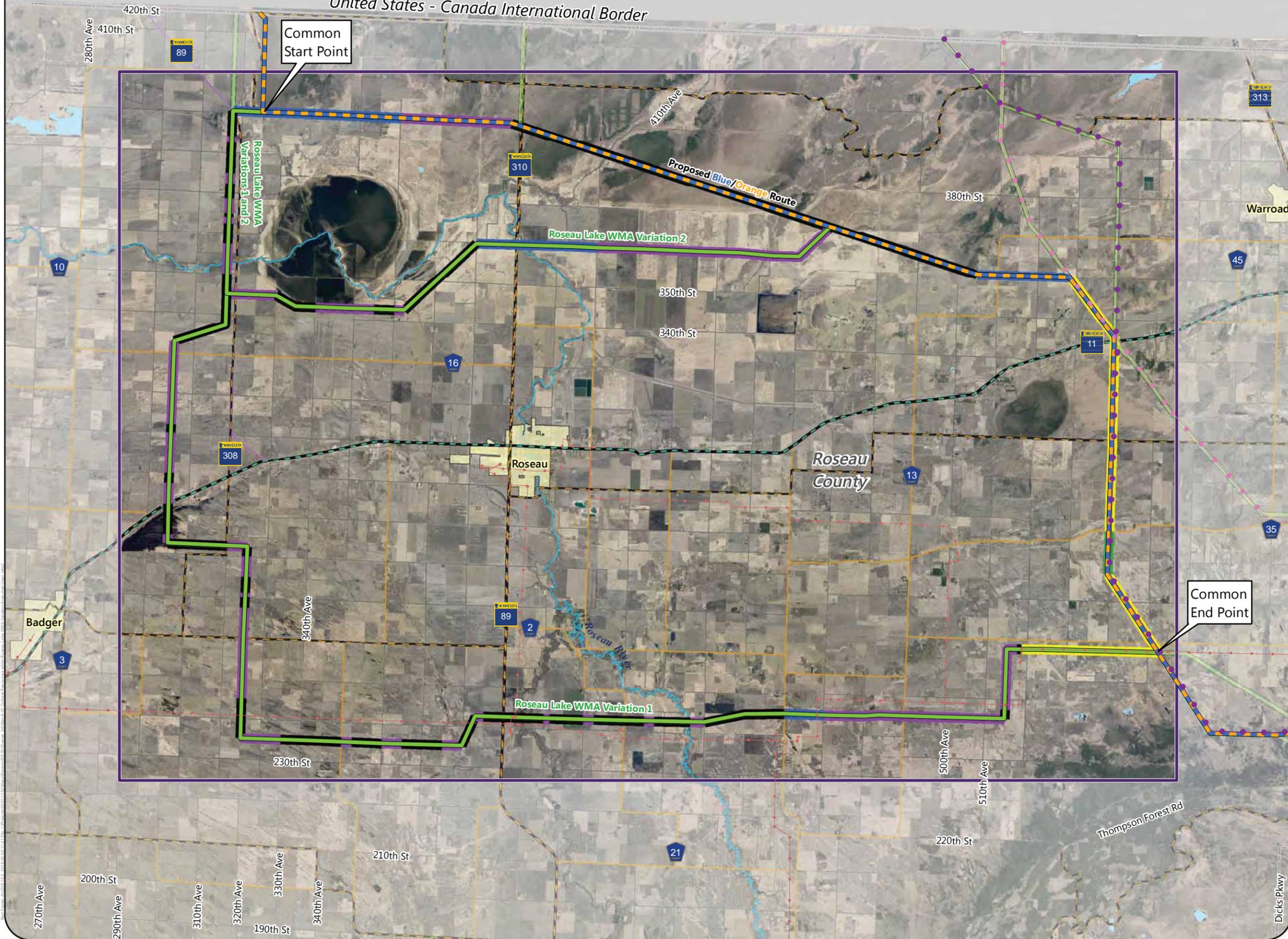
**RARE AND UNIQUE NATURAL RESOURCES WITHIN ROSEAU LAKE WMA VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement



Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

# Manitoba

United States - Canada International Border



**Proposed Routes**

- Blue/Orange Route

**Alternatives**

- Route Variation

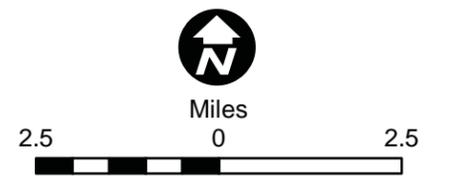
**Existing Transmission Lines**

- 69 or 115 kV
- 230 kV
- 500 kV
- Snowmobile Trail
- Scenic Byway

**Corridor Sharing by Category\***

- Existing Transmission Line
- Road
- Existing Transmission Line & Road
- Field Line, Section Line, or Trail
- None
- Municipal Boundary
- International Boundary

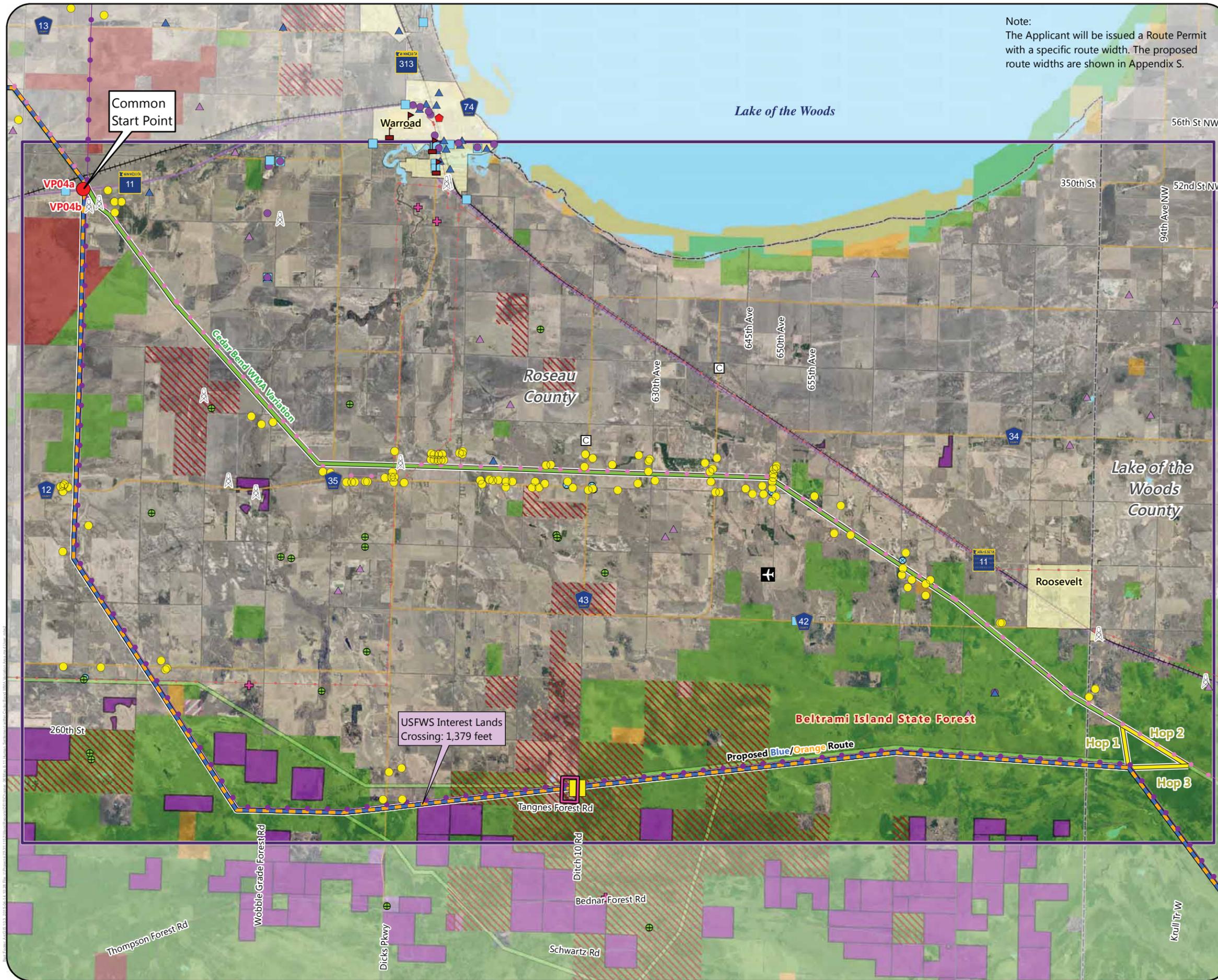
\*Note: Not all corridor sharing combinations shown



Map 6-10

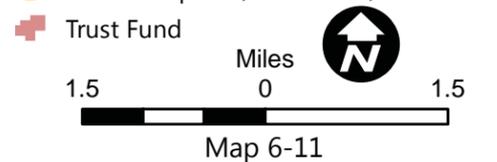
**CORRIDOR SHARING WITHIN ROSEAU LAKE WMA VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement





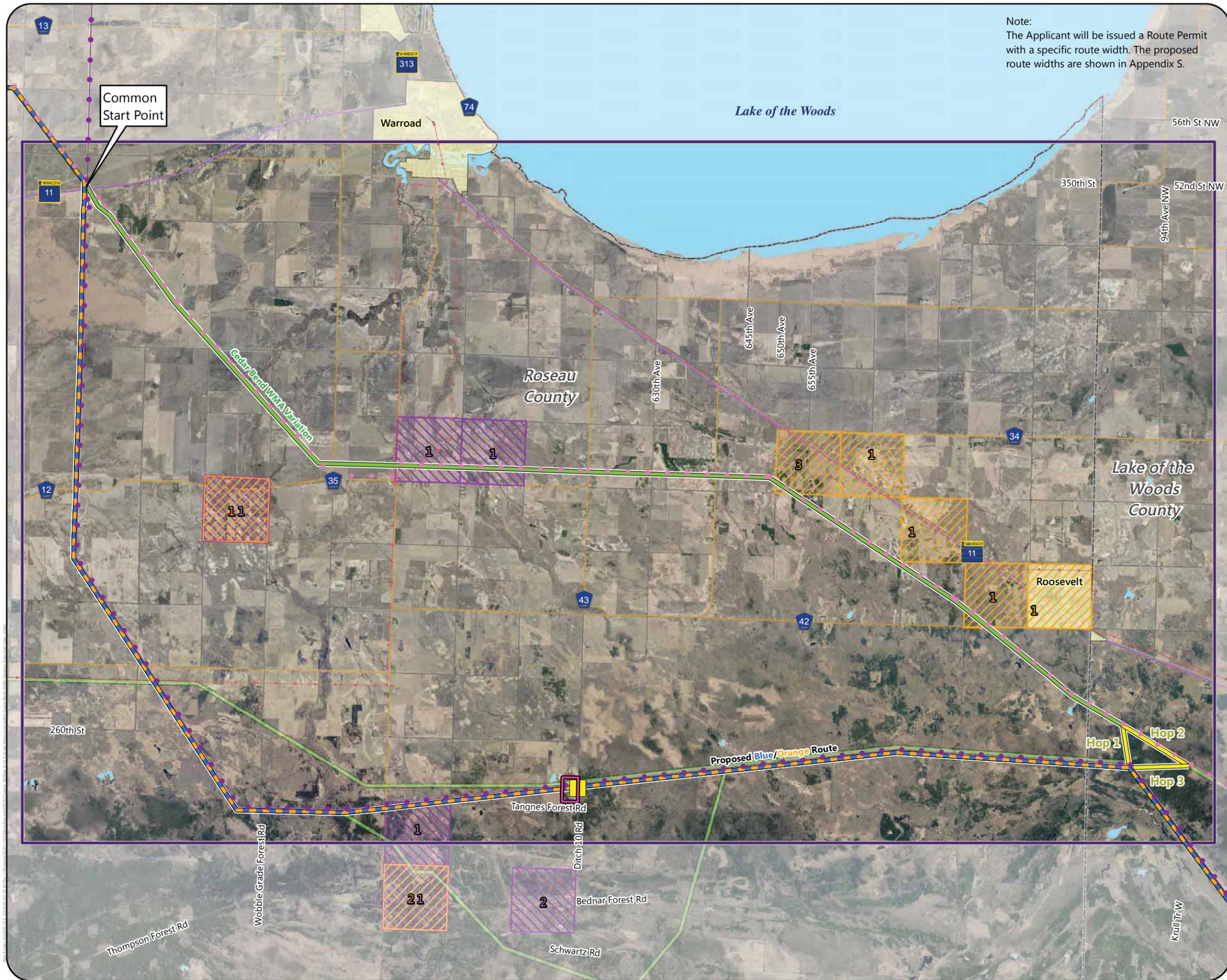
Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

- Visual Simulation Viewpoint
- Proposed Regeneration Site
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Route Variation Hop
- Proposed Series Compensation Station
- ▲ School
- Residences Within 1,500 Feet of Anticipated Alignment
- Church
- + Cemetery
- ✈ Airport
- ▲ Aggregate Source Location
- Mineral Exploration/Engineering Drillhole
- County Well Index Within 1,500 Feet of Anticipated Alignment
- ▲ Communication Tower
- MPCA Database**
- Hazardous Waste
- ◆ Investigation and Cleanup
- ▲ Tanks and Leaks
- Multiple Activities
- Railroad
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Inactive Mineral Lease
- Indian Reservation Land
- USFWS Interest Lands
- State Fee Lands by Type**
- Consolidated Conservation
- Federal - State Lease
- Other - Aquired, Tax Forfeit, Volstead
- Trust Fund



**HUMAN SETTLEMENT WITHIN CEDAR BEND WMA VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement





Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

- Proposed Regeneration Site
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Route Variation Hop
- Proposed Series Compensation Station
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Section Containing Cultural Resource\***
- Historic Architectural Sites
- Archaeological Sites
- Historic Architectural and Archaeological Sites

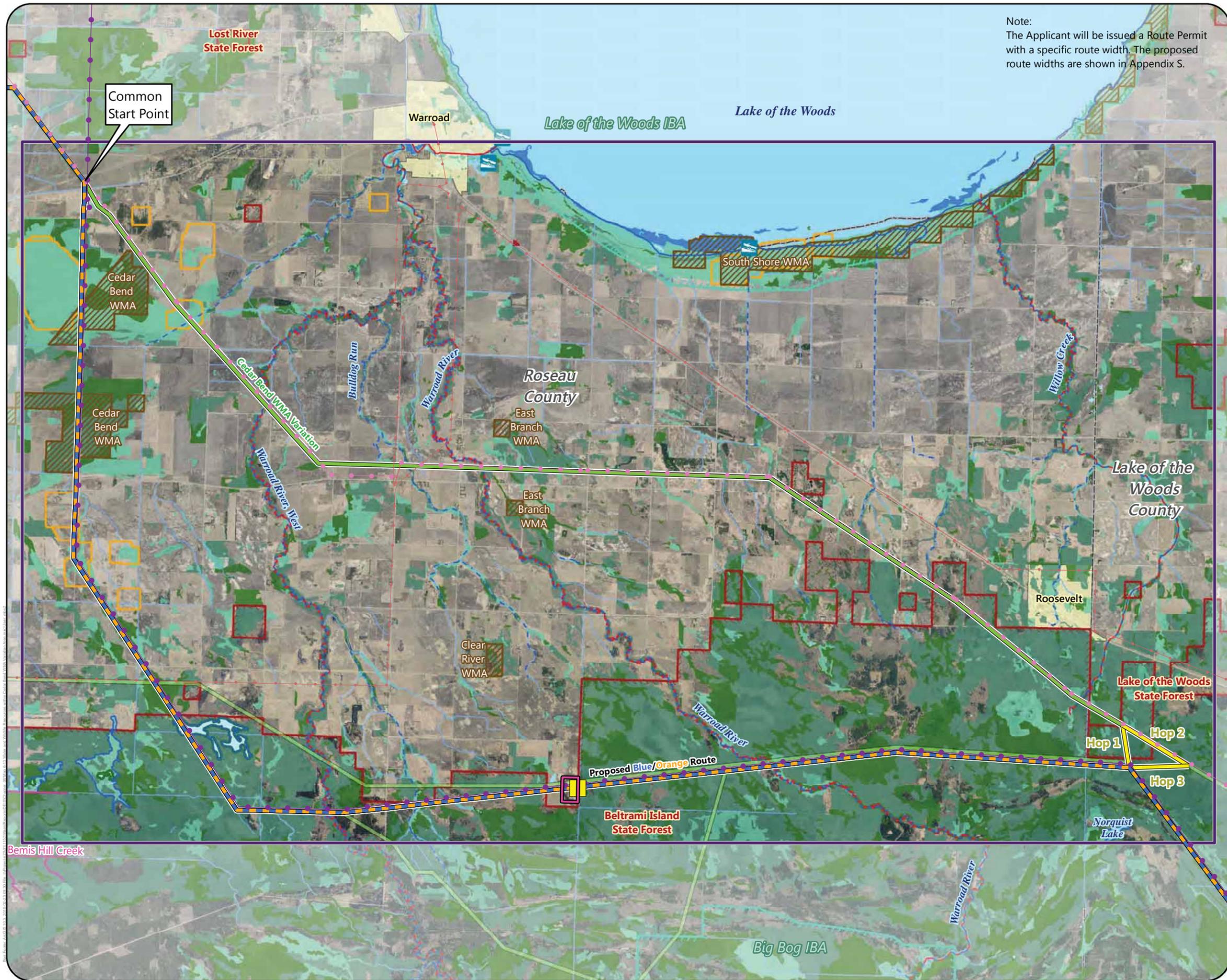
\*Note: Labeled with number of records found by inventory type.



Map 6-12

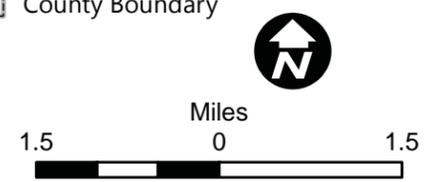
**CULTURAL RESOURCES WITHIN CEDAR BEND WMA VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement





Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

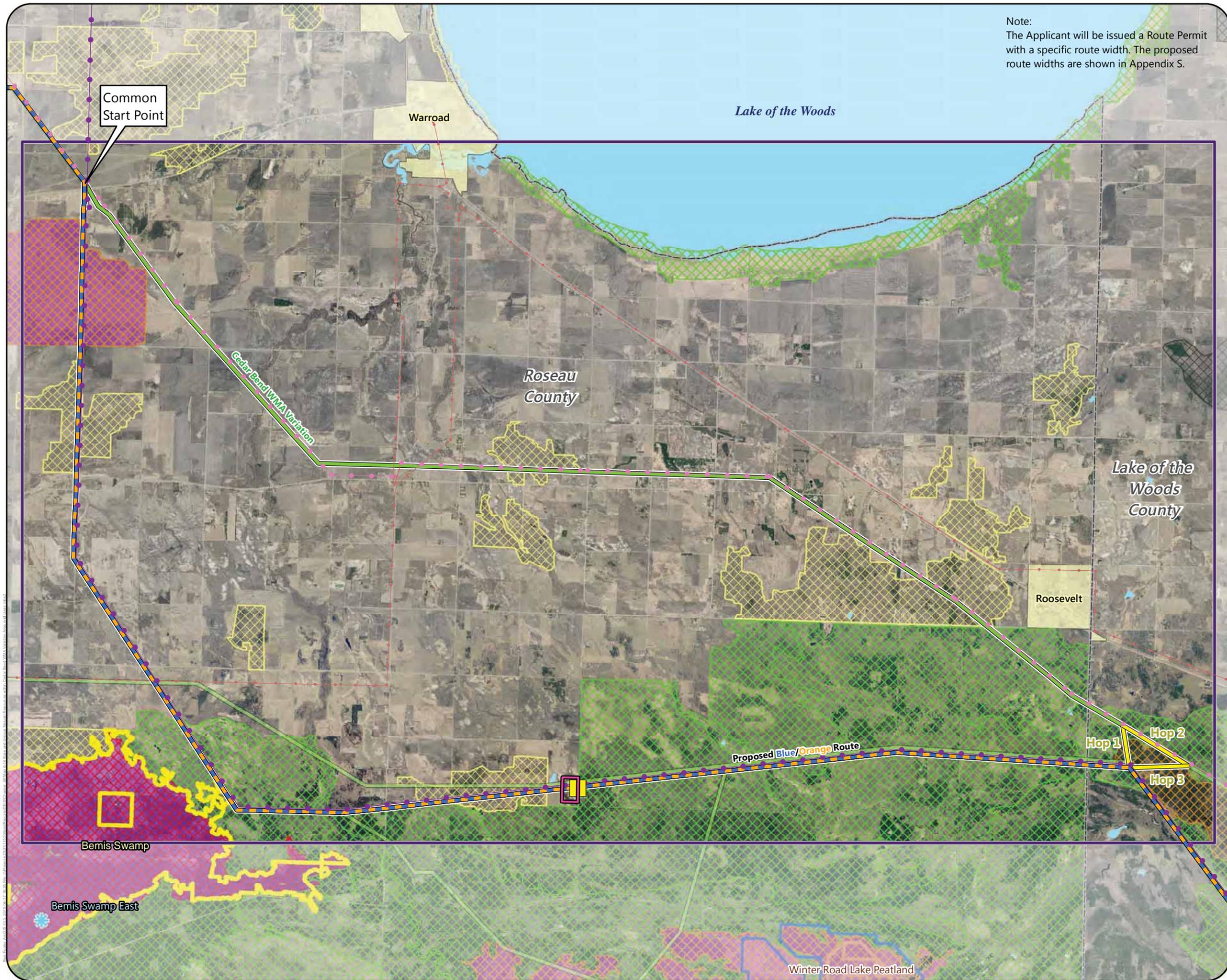
- Proposed Regeneration Site
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Route Variation Hop
- Proposed Series Compensation Station
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Trailer Launch Water Access
- NHD Watercourse
- PWI Watercourse
- Trout Stream
- MPCA Impaired Stream
- NHD Waterbody
- PWI Waterbody
- Shallow Lake
- Wildlife Management Area (WMA)
- State Forest Boundary
- Grassland Bird Conservation Core Areas
- Audubon Society Important Bird Areas
- National Wetland Inventory**
- PUB, Freshwater Pond & Other
- PUS, Other
- PEM, Freshwater Emergent Wetland
- PFO, Freshwater Forested/Shrub Wetland
- PSS, Freshwater Forested/Shrub Wetland
- Lake
- Riverine
- Municipal Boundary
- County Boundary



Map 6-13

**WATER AND WILDLIFE RESOURCES  
WITHIN CEDAR BEND WMA  
VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement





Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

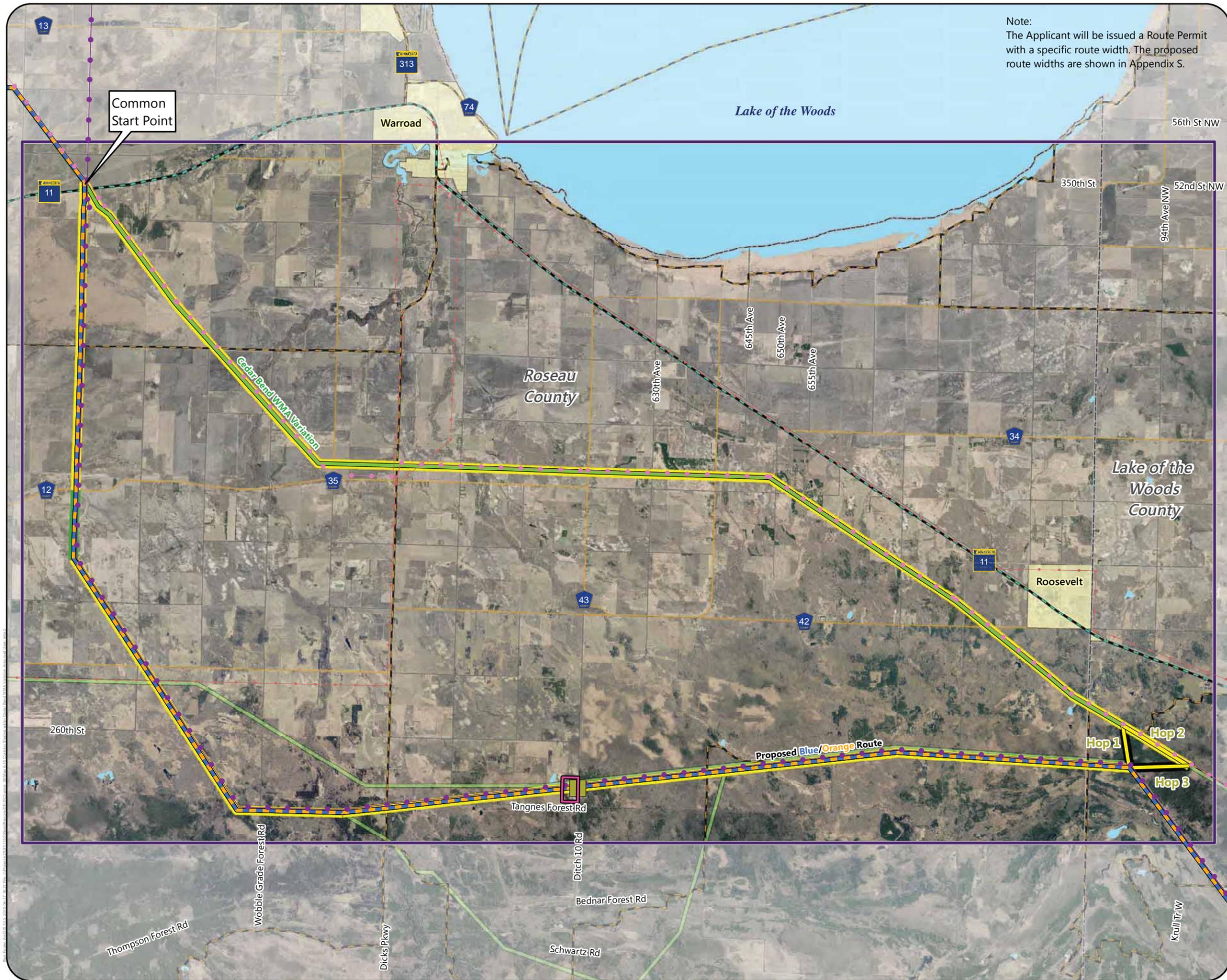
- Proposed Regeneration Site
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Route Variation Hop
- Proposed Series Compensation Station
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Approximate Calcareous Fen Location
- Scientific and Natural Area (SNA)
- Preliminary Peatland SNA Watershed Protection Area
- High Conservation Value Forest
- Native Plant Community (Data only available for Roseau County)
- Site of Biodiversity Significance** (Ranks Preliminary Except for Roseau County)
- Rank Unknown
- Below Minimum Significance
- Moderate Significance
- High Significance
- Outstanding Significance
- Municipal Boundary
- County Boundary



Map 6-14

**RARE AND UNIQUE NATURAL RESOURCES WITHIN CEDAR BEND WMA VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement





Note:  
The Applicant will be issued a Route Permit with a specific route width. The proposed route widths are shown in Appendix S.

- Proposed Regeneration Site
- Proposed Routes**
- Blue/Orange Route
- Alternatives**
- Route Variation
- Route Variation Hop
- Proposed Series Compensation Station
- Existing Transmission Lines**
- 69 or 115 kV
- 230 kV
- 500 kV
- Snowmobile Trail
- Scenic Byway
- Corridor Sharing by Category\***
- Existing Transmission Line
- Existing Transmission Line & Road
- None
- Municipal Boundary
- County Boundary

\*Note: Not all corridor sharing combinations shown



Map 6-15

**CORRIDOR SHARING WITHIN  
CEDAR BEND WMA VARIATION AREA**  
Great Northern Transmission Line  
Draft Environmental Impact Statement

