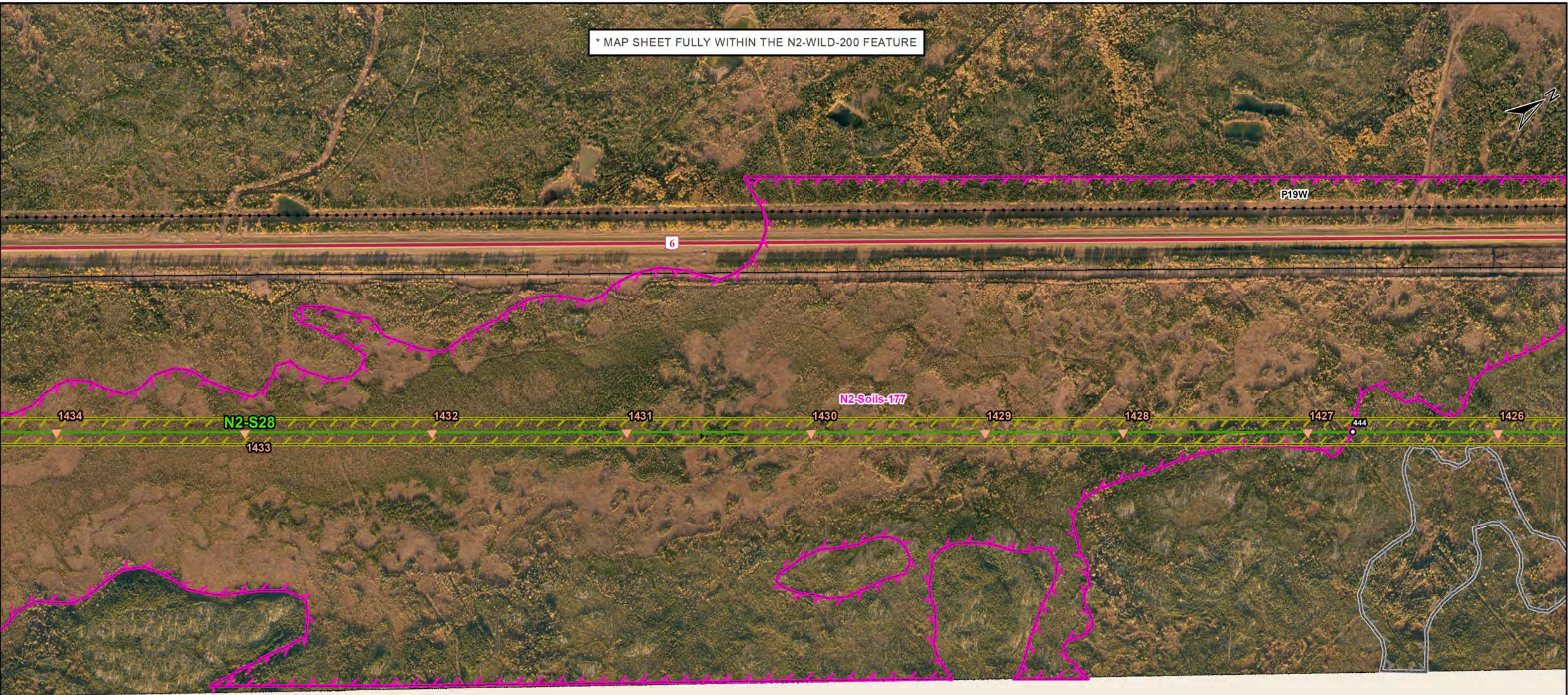
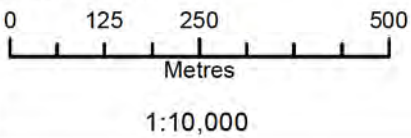




Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, ProvMB, NRCAN
Date Created: October 31, 2016
Version: Final 4.0



Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Soils and Terrain

- Permafrost

Wildlife

- Mammals and Habitat

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section N2
Environmentally Sensitive Site Locations

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S28	N2-Soils-177	Permafrost	Site: 444 to 445	E-510865 N-6068586	E-508885 N-6065587	14N	3594m

Potential Effects:

Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan

ESS Group: Mammals and Habitat

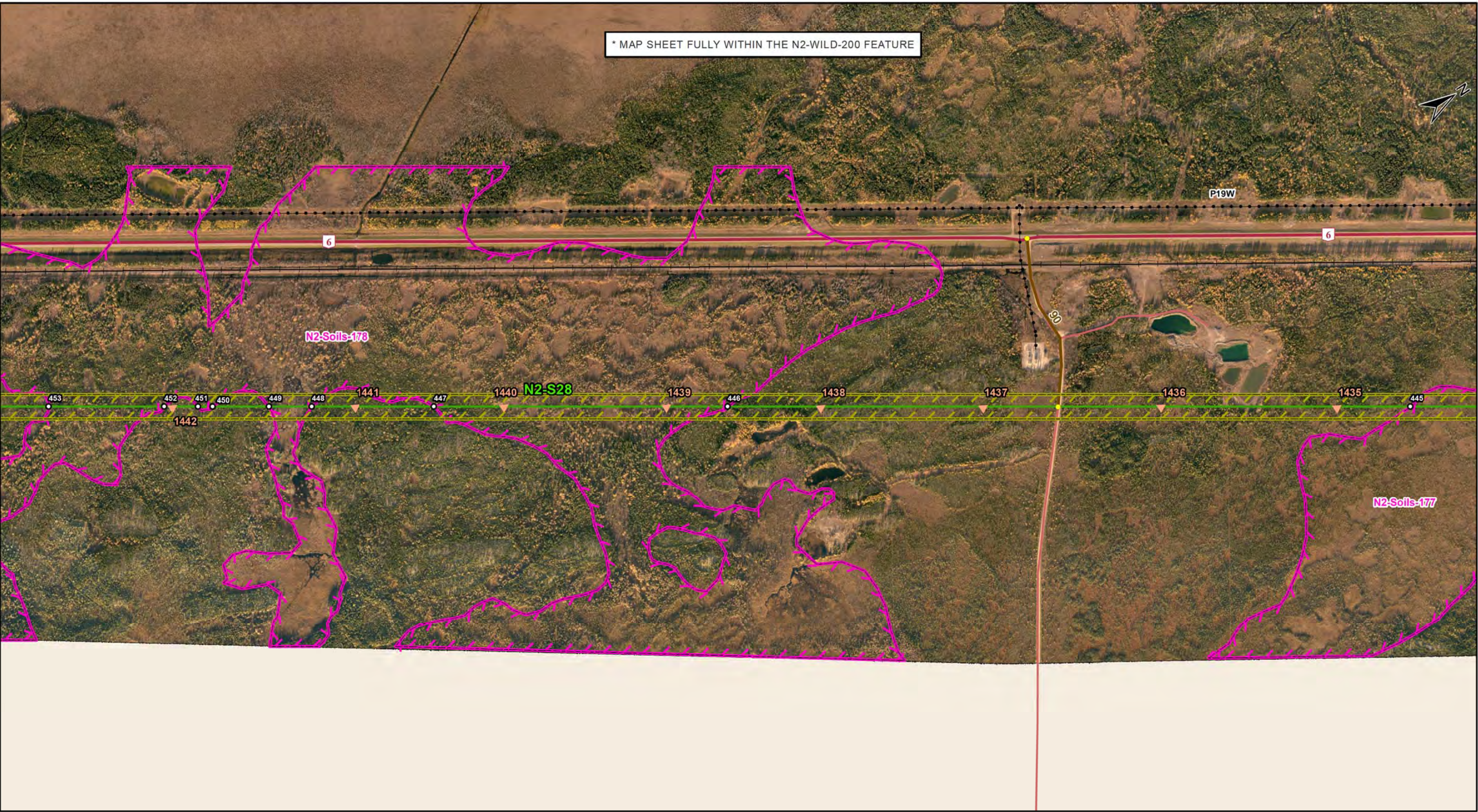
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S28	N2-Wild-200	MCWS Caribou Sensitive Area	Site: 435 to 437	E-513130 N-6072016	E-504972 N-6059662	14N	14804 m

Potential Effects:

Wabowden Woodland Caribou Range Sensitive Area

Specific Mitigation:

- For mitigation in this area refer to the "Moose and Woodland Caribou Sensitive Range Delineation and Mitigation Plans" document



Coordinate System: UTM Zone 14N NAD83
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0 125 250 500
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Land Base

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- Highway
- Major Road
- Local Road
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- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Soils and Terrain

- Permafrost

Wildlife

- Mammals and Habitat

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section N2
Environmentally Sensitive Site Locations

ESS Group: Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S28	N2-Wild-200	MCWS Caribou Sensitive Area	Site: 435 to 437	E-513130 N-6072016	E-504972 N-6059662	14N	14804 m

Potential Effects:

Wabowden Woodland Caribou Range Sensitive Area

Specific Mitigation:

- For mitigation in this area refer to the "Moose and Woodland Caribou Sensitive Range Delineation and Mitigation Plans" document

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S28	N2-Soils-177	Permafrost	Site: 444 to 445	E-510865 N-6068586	E-508885 N-6065587	14N	3594 m
N2-S28	N2-Soils-178	Permafrost	Site: 446 to 447	E-507865 N-6064043	E-507427 N-6063379	14N	795 m
N2-S28	N2-Soils-178	Permafrost	Site: 448 to 449	E-507244 N-6063103	E-507180 N-6063005	14N	116 m
N2-S28	N2-Soils-178	Permafrost	Site: 450 to 451	E-507096 N-6062879	E-507075 N-6062846	14N	39 m
N2-S28	N2-Soils-178	Permafrost	Site: 452 to 453	E-507024 N-6062770	E-506852 N-6062508	14N	312 m

Potential Effects:

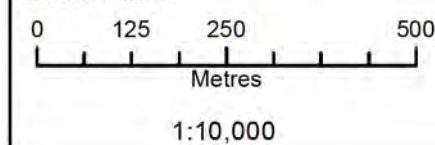
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

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Land Base

- Transmission Line
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- Major Road
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- Winter Road
- Railway (Operational)
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- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Soils and Terrain

- Permafrost

Wildlife

- Mammals and Habitat

Bipole III Transmission Project **Construction Environmental Protection Plan** **Construction Section N2** **Environmentally Sensitive Site Locations**

ESS Group: Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S28	N2-Wild-200	MCWS Caribou Sensitive Area	Site: 435 to 437	E-513130 N-6072016	E-504972 N-6059662	14N	14804 m
N2-S29	N2-Wild-200	MCWS Caribou Sensitive Area	Site: 458 to 459	E-504972 N-6059662	E-501861 N-6060004	14N	3130 m

Potential Effects:

Wabowden Woodland Caribou Range Sensitive Area

Specific Mitigation:

- For mitigation in this area refer to the "Moose and Woodland Caribou Sensitive Range Delineation and Mitigation Plans" document

ESS Group: Permafrost

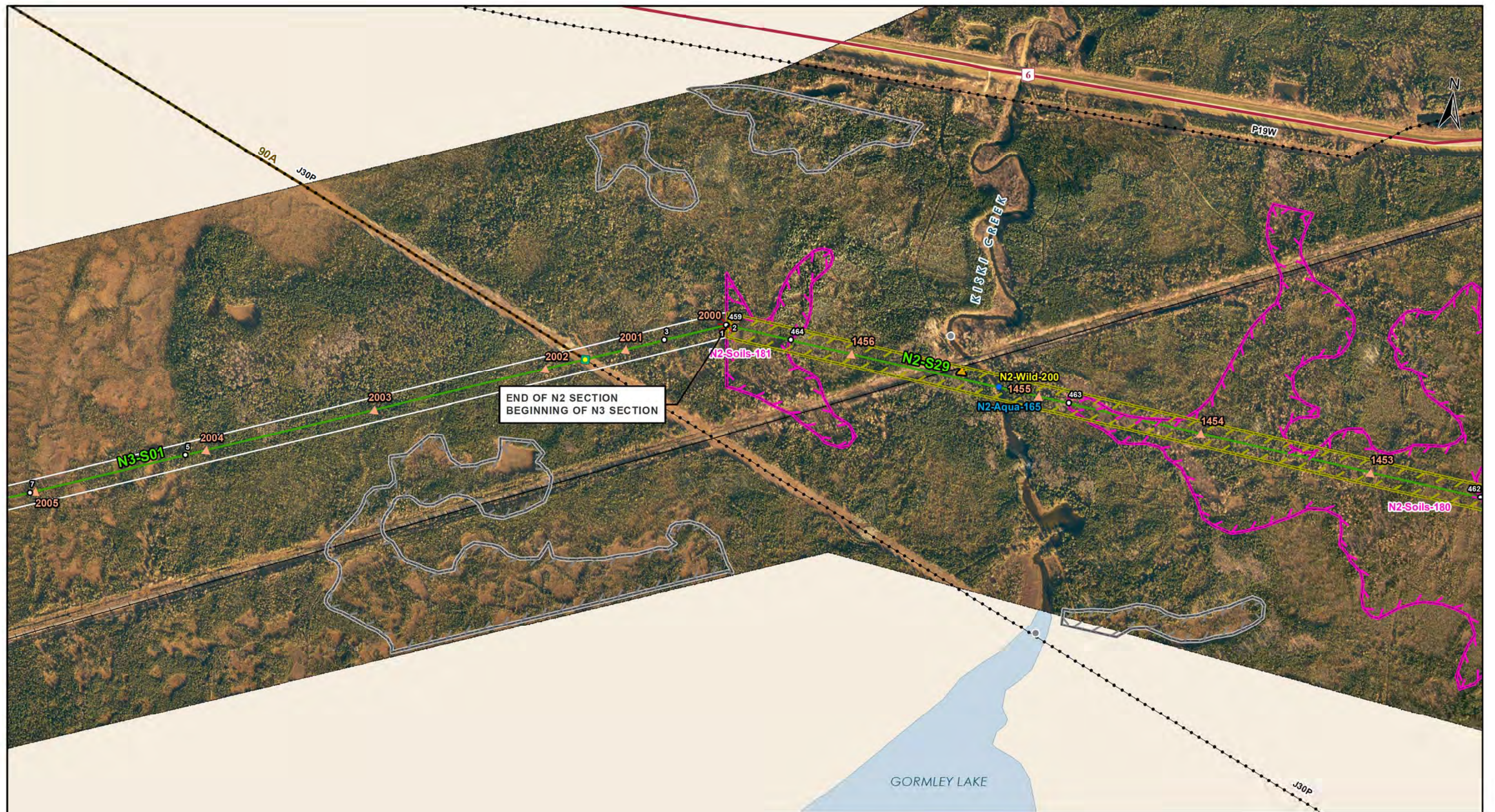
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S28	N2-Soils-178	Permafrost	Site: 454 to 455	E-506708 N-6062291	E-506613 N-6062147	14N	172 m
N2-S28	N2-Soils-179	Permafrost	Site: 456 to 457	E-506112 N-6061388	E-505381 N-6060281	14N	1326 m
N2-S29	N2-Soils-180	Permafrost	Site: 460 to 461	E-504192 N-6059748	E-504029 N-6059766	14N	164 m
N2-S29	N2-Soils-180	Permafrost	Site: 462 to 463	E-503945 N-6059775	E-502807 N-6059900	14N	1144 m

Potential Effects:

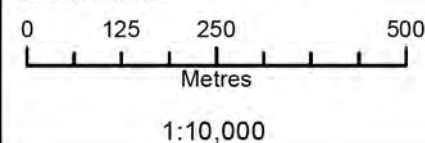
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



Coordinate System: UTM Zone 14N NAD83
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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
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- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Water

- Water Crossing

Soils and Terrain

- Permafrost

Wildlife

- Mammals and Habitat

Bipole III Transmission Project Construction Environmental Protection Plan

Construction Section N2 Environmentally Sensitive Site Locations

Map 111

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S29	N2-Aqua-166	Kiski Creek	502601	6059921	14N	N/A	N/A	None	None

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S29	N2-Wild-200	MCWS Caribou Sensitive Area	Site: 458 to 459	E-504972 N-6059662	E-501861 N-6060004	14N	3130 m

Potential Effects:

Wabowden Woodland Caribou Range Sensitive Area

Specific Mitigation:

- For mitigation in this area refer to the "Moose and Woodland Caribou Sensitive Range Delineation and Mitigation Plans" document

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S29	N2-Soils-180	Permafrost	Site: 462 to 463	E-503945 N-6059775	E-502807 N-6059900	14N	1144 m
N2-S29	N2-Soils-181	Permafrost	Site: 464 to 465	E-502039 N-6059985	E-501860 N-6060004	14N	180 m
N2-S29	N3-Soils-100	Permafrost	Site: 466 to 467	E-501860 N-6060004	E-501860 N-6060005	14N	0 m
N3-S1	N3-Soils-100	Permafrost	Site: 468 to 469	E-501860 N-6060005	E-501697 N-6059945	14N	172 m

Potential Effects:

Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
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