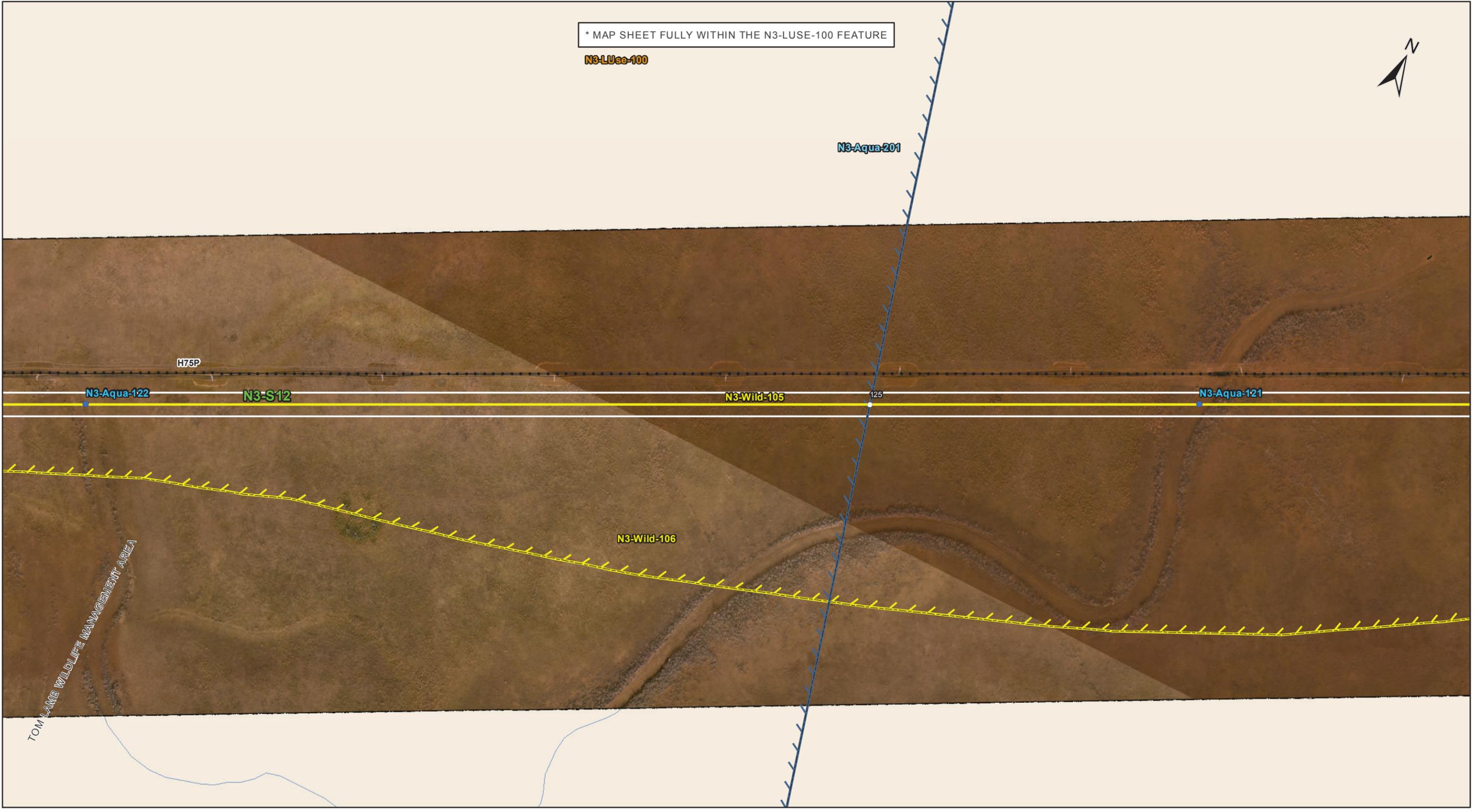


DOCUMENT PATH: G:\GIS\PROJECT_FOLDER\00_HYDRO\11440054_BPIII_EPP\ARCMAPIESS_N3\BPIII_CENVPP_NIN2\N3\4C1\SECTION\BASEMAP_MAPBOOK_BTIB_STANTEC_20131128A.MXD

* MAP SHEET FULLY WITHIN THE N3-LUSE-100 FEATURE

N3-LUse-100



Coordinate System: UTM Zone 14N NAD83
 Data Source: MB Hydro, ProvMB, NRCAN
 Date Created: November 29, 2013

1:10,000

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

- Project Infrastructure**
- Angle Tower Locations
 - BPIII Final Preferred Route
 - 66 m Right of Way

- Points of Access***
- Proposed Access Point
 - Major Stream Crossing
 - Abandoned Rail Crossing
 - Rail Crossing
 - Transmission Line Crossing
 - Proposed Access Route
- *Labels correspond to BPIII Access Management Database

- ESS Features**
- Water**
 - Water Crossing
 - Wildlife**
 - Birds and Habitat
 - Wildlife**
 - Birds and Habitat
 - Land Use**
 - Conservation
 - Water**
 - Groundwater

**Bipole III Transmission Project
 Construction Environmental Protection Plan
 Construction Section N3
 Environmentally Sensitive Site Locations**

MAP NUMBER : 143

ESS Group : Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S12	N3-Wild-105	Waterfowl and colonial bird sensitivity area, Little Frog Creek crossing, Frog Creek crossing	Site: L5 to L6	E-389510 N-5998393	E-399823 N-6003616	14N	11560m

Potential Effects:

Higher risk of wire collision, disturbance during breeding and nesting, risk of wire collision is localized to the right-of-way while construction disturbance can effect colonies up to 1000 meters away

Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

ESS Group : Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S12	N3-Wild-106	Owls	Site: 123 to 124	E-397963 N-6002674	E-390716 N-5999004	14N	8123m

Potential Effects:

Potential disruption of nesting cavities and increased risk of bird wire collisions

Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain setback during timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

ESS Group : Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N3-S12	N3-Aqua-121	Unnamed Headwater or Side Tributaries into Little Frog Creek	394105	6000720	14N	40m	Dry	No Fish Habitat	Low
N3-S12	N3-Aqua-122	Unnamed Tributary into Little Frog Creek	391397	5999348	14N	32m	Dry	No Fish Habitat	Low

Potential Effects:

Habitat loss & contamination from structure foundations & installations; increased erosion & sedimentation of streams; damage to stream banks; loss of riparian vegetation

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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

ESS Group : Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S12	N3-Aqua-201	Aquifers vulnerable to contamination	Site: 125 to 126	E-393304 N-6000315	E-386715 N-5996977	14N	7386m

Potential Effects:

Potential groundwater contamination from a contingency event (e.g., spill)

Specific Mitigation:

- Marshaling yards will be located on upland sites where possible
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery

MAP NUMBER : 143 cont'd

ESS Group : Conservation

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S12	N3-LUse-100	Tom Lamb WMA	Site: 121 to 122	E-399755 N-6003581	E-386715 N-5996977	14N	14617m

Potential Effects:

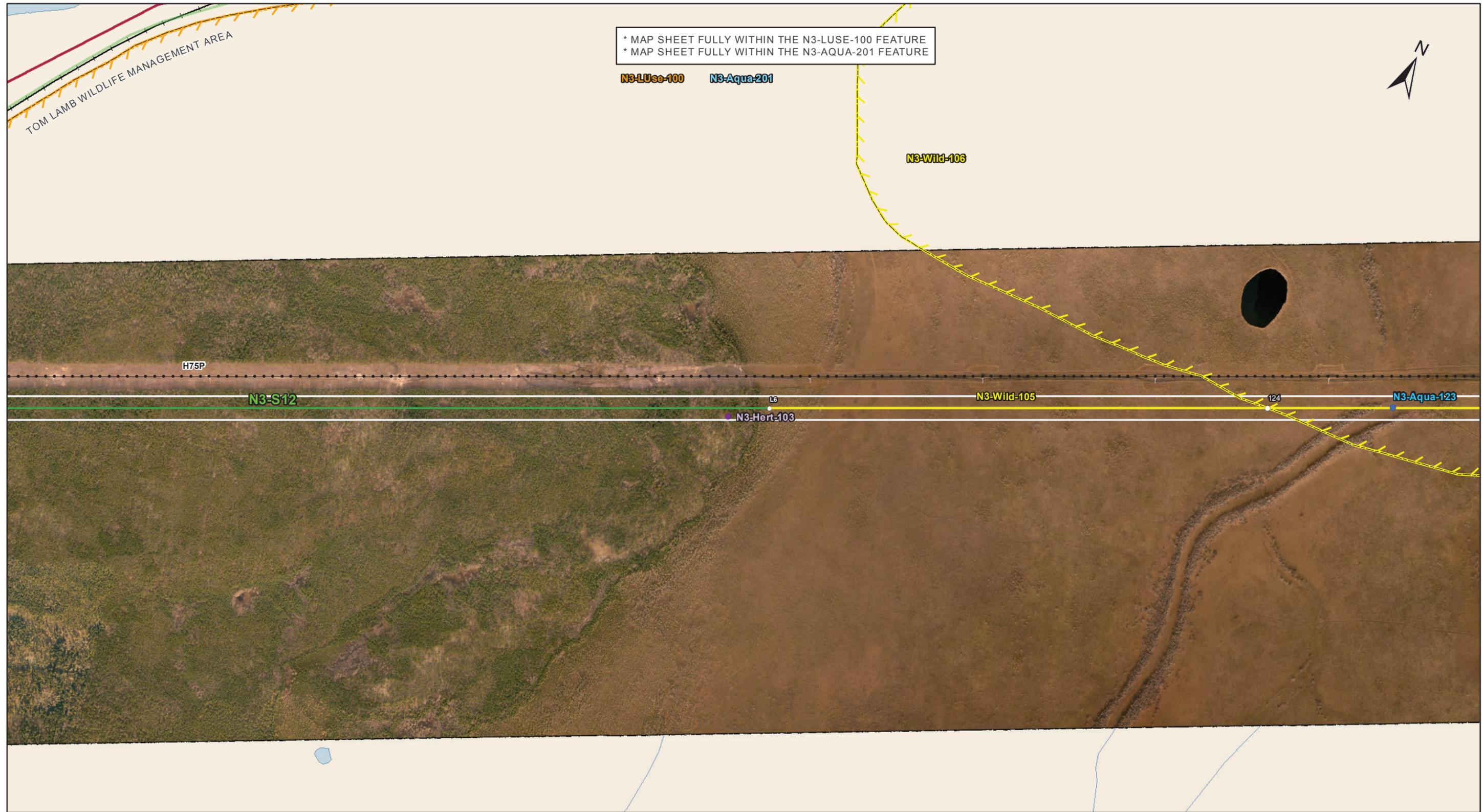
Potential disruption to resource use activities

Specific Mitigation:

- Subject to permit conditions

This page is intentionally left blank.

DOCUMENT PATH: G:_GIS_PROJECT_FOLDER\011440054_BPIII_EPP\ARCMAPIESS_N3\BPIII_CENVPP_NIN2\N3\4C1\SECTIONBASEMAP_MAPBOOK_BT_B_STANTEC_20131128A.MXD



* MAP SHEET FULLY WITHIN THE N3-LUSE-100 FEATURE
 * MAP SHEET FULLY WITHIN THE N3-AQUA-201 FEATURE

N3-LUse-100 N3-Aqua-201

N3-Wild-106

H75P

N3-S12

L6

N3-Hert-103

N3-Wild-105

124

N3-Aqua-123



Coordinate System: UTM Zone 14N NAD83
 Data Source: MB Hydro, ProvMB, NRCAN
 Date Created: November 29, 2013

1:10,000

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

- Project Infrastructure**
- Angle Tower Locations
 - BPIII Final Preferred Route
 - 66 m Right of Way

- Points of Access***
- Proposed Access Point
 - Major Stream Crossing
 - Abandoned Rail Crossing
 - Rail Crossing
 - Transmission Line Crossing
 - Proposed Access Route
- *Labels correspond to BPIII Access Management Database

- ESS Features**
- Heritage**
 - Water**
 - Wildlife**
 - Land Use**

**Bipole III Transmission Project
 Construction Environmental Protection Plan
 Construction Section N3
 Environmentally Sensitive Site Locations**

MAP NUMBER : 144

ESS Group : Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S12	N3-Wild-105	Waterfowl and colonial bird sensitivity area, Little Frog Creek crossing, Frog Creek	Site: L5 to L6	E-389510 N-5998393	E-399823 N-6003616	14N	11560m

Potential Effects:

Higher risk of wire collision, disturbance during breeding and nesting, risk of wire collision is localized to the right-of-way while construction disturbance can effect colonies up to 1000 meters away

Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

ESS Group : Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S12	N3-Wild-106	Owls	Site: 123 to 124	E-397963 N-6002674	E-390716 N-5999004	14N	8123m

Potential Effects:

Potential disruption of nesting cavities and increased risk of bird wire collisions

Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain setback during timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

ESS Group : Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N3-S12	N3-Aqua-123	Unnamed Headwater or Side Tributaries into Little Frog Creek	391020	5999157	14N	35m	Dry	No Fish Habitat	Low

Potential Effects:

Habitat loss & contamination from structure foundations & installations; increased erosion & sedimentation of streams; damage to stream banks; loss of riparian vegetation

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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

ESS Group : Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S12	N3-Aqua-201	Aquifers vulnerable to contamination	Site: 125 to 126	E-393304 N-6000315	E-386715 N-5996977	14N	7386m

Potential Effects:

Potential groundwater contamination from a contingency event (e.g., spill)

Specific Mitigation:

- Marshaling yards will be located on upland sites where possible
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery

MAP NUMBER : 144 cont'd

ESS Group : Conservation

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S12	N3-LUse-100	Tom Lamb WMA	Site: 121 to 122	E-399755 N-6003581	E-386715 N-5996977	14N	14617m

Potential Effects:

Potential disruption to resource use activities

Specific Mitigation:

- Subject to permit conditions

ESS Group : Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N3-S12	N3-Hert-103	Cormorant Lake Petroform Site	389419	5998319	14N

Potential Effects:

Potential disturbance to Heritage Resource

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Conduct site investigation with Archaeologist post clearing and prior to construction
- Minimize surface disturbance around the site to the extent possible
- Inspect excavated materials or surface disturbance for heritage resources and report any finds to Environmental Inspector
- Implement additional mitigation from site investigation

This page is intentionally left blank.