

APPENDIX B

Maps Illustrating the HVdc Transmission Corridor and Electrodes
(Proposed and Alternatives)

APPENDIX B

The proposed ***Labrador – Island Transmission Link*** (the Project) involves the construction and operation of transmission infrastructure within and between Labrador and the Island of Newfoundland.

A High Voltage Direct Current (HVdc) transmission system will be established from Gull Island in Central Labrador to Soldiers Pond on the Island's Avalon Peninsula.

The proposed transmission system will include the following key components:

- a converter station at Gull Island;
- an overhead HVdc transmission line from Gull Island to the Strait of Belle Isle;
- cable crossings of the Strait of Belle Isle with associated infrastructure;
- an overhead HVdc transmission line from the Strait of Belle Isle to the Avalon Peninsula;
- a converter station at Soldiers Pond; and
- two electrodes with connecting overhead lines.

Project planning and design are currently at a stage of having identified a 2 km wide corridor for most of the on-land portions of the proposed HVdc transmission line, 200 m wide corridors for select on-land portions (namely, the proposed line sections within the boundaries of Gros Morne National Park), and 500 m wide corridors for the proposed Strait of Belle Isle cable crossings, as well as various alternative corridor segments in particular areas. On-land corridors and marine study areas have also been identified for each of the alternative locations for the proposed sea electrodes.

It is these transmission corridors and components and their alternatives that are the subject of this *Environmental Assessment Registration and Project Description*. Any environmental assessment of the Project would be conducted in relation to these, subject to further refinement as planning and design work continue. For specific segments of the proposed transmission line, a more focused and specific routing may be identified and presented in any environmental assessment for review and approval.

The following map series supplements the Project description information provided in the Main Report by showing the proposed HVdc transmission corridor, converter stations and electrodes over a series of 1:50,000 scale topographic maps.¹

In conjunction and concurrent with the environmental assessment process, technical and environmental analyses of the HVdc transmission corridors will continue in order to identify and select a specific routing for the transmission line for an on-land right of way that will average approximately 60 m in width (varying from less than 60 m wide in some areas up to approximately 80 m in others). The identified on-land corridors and marine study areas for the proposed sea electrodes will also be subject to further analysis and engineering for line

¹ Please note that these maps have been developed and provided for initial review and information purposes only. They are based on existing and available topographic map information, and as such, some of the details therein, including landform and place names and locations, may be subject to further review and refinement.

routing and site selection. These eventual transmission routes and locations will be selected with consideration of technical, environmental and socioeconomic factors.

For a portion of the proposed Project located on the Island's Avalon Peninsula, a specific potential transmission line routing has been identified within the 2 km wide corridor, given the relatively intensive existing land use in that region and because the proposed corridor generally follows existing transmission lines in the area. This preliminary routing is also presented in the maps which follow, as the basis for further analysis and review.



FIGURE 1.0

Labrador - Island Transmission Link: Project Overview

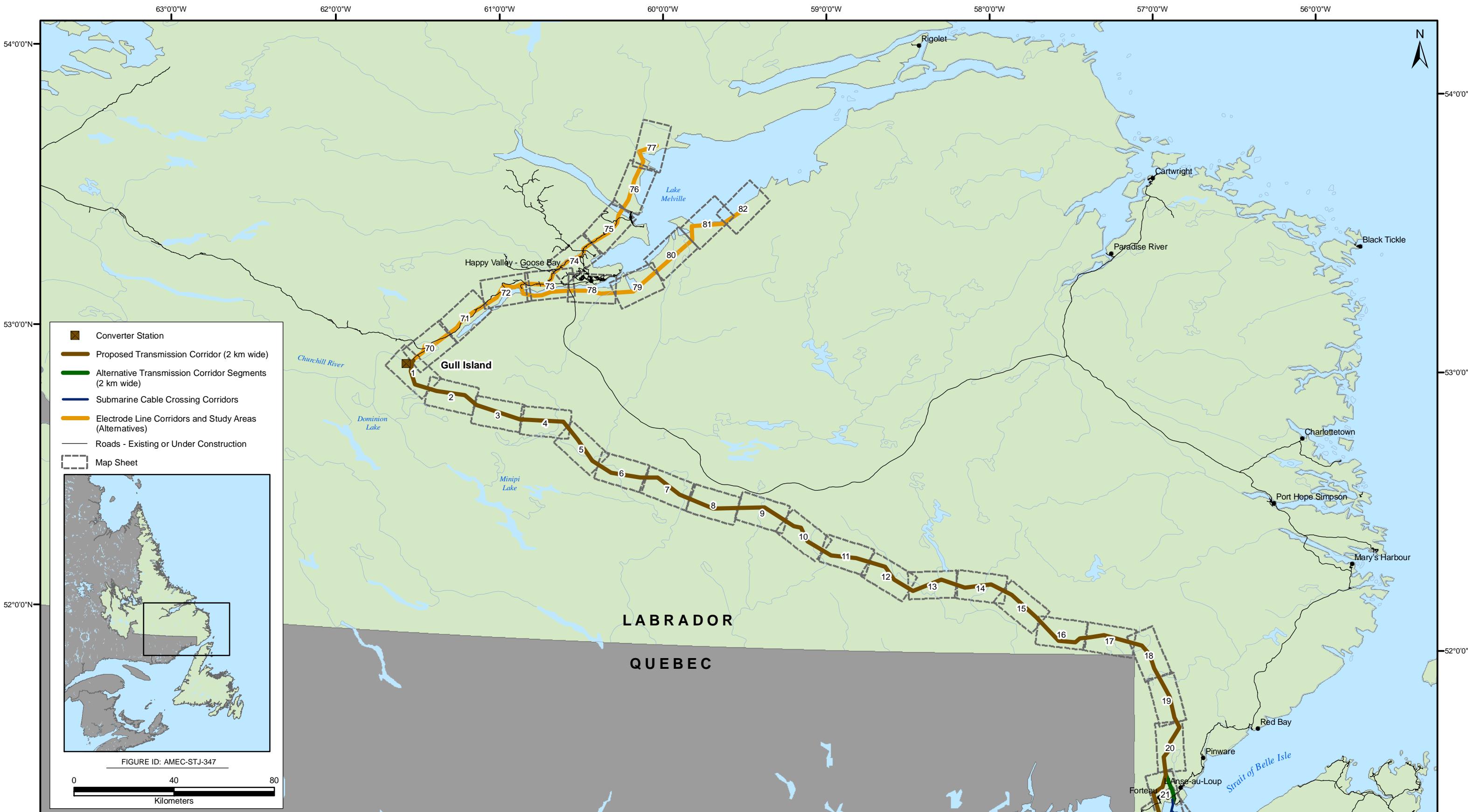


FIGURE 2.0

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle

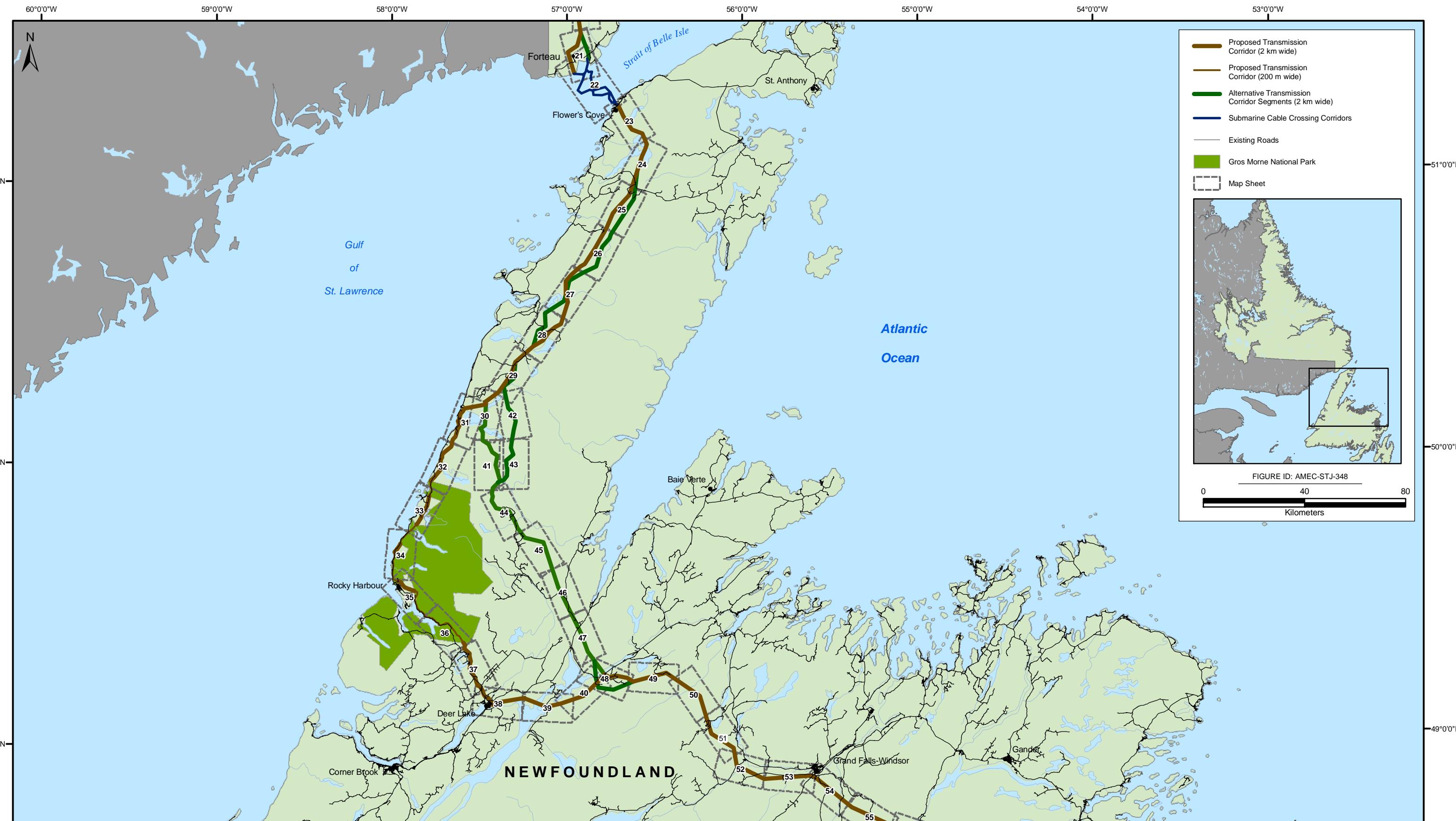
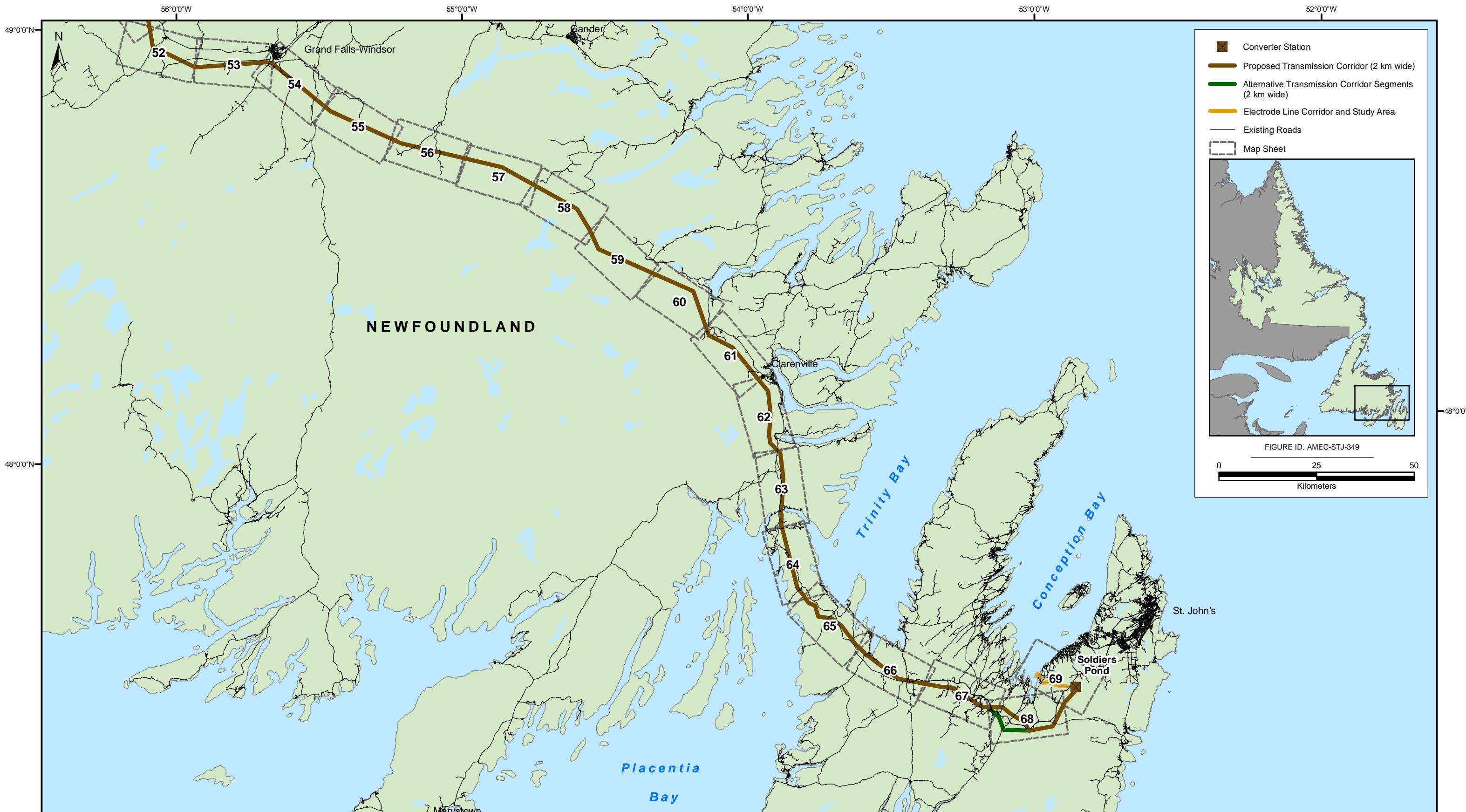


FIGURE 3.0

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland



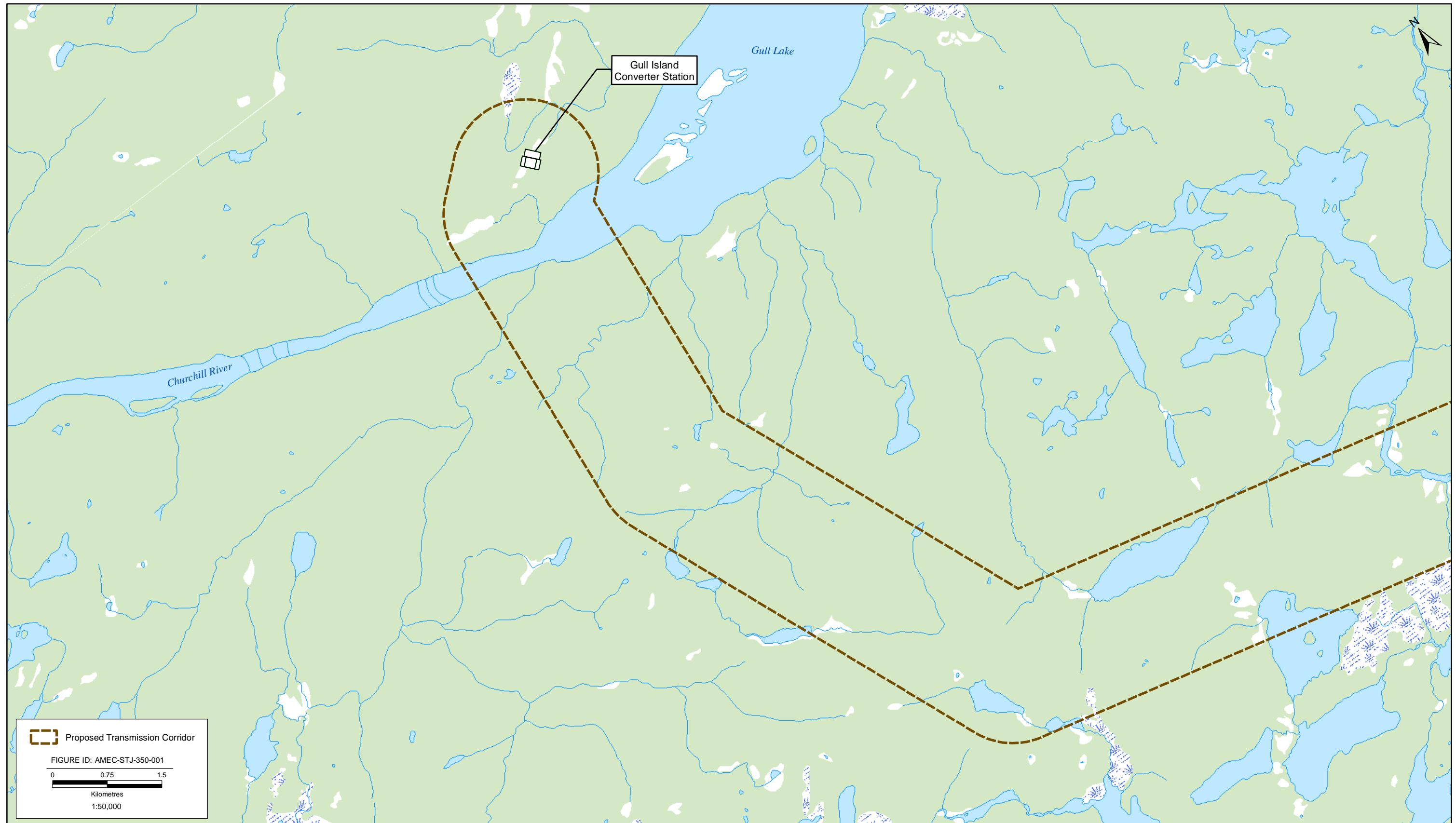


FIGURE 5.1

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 1

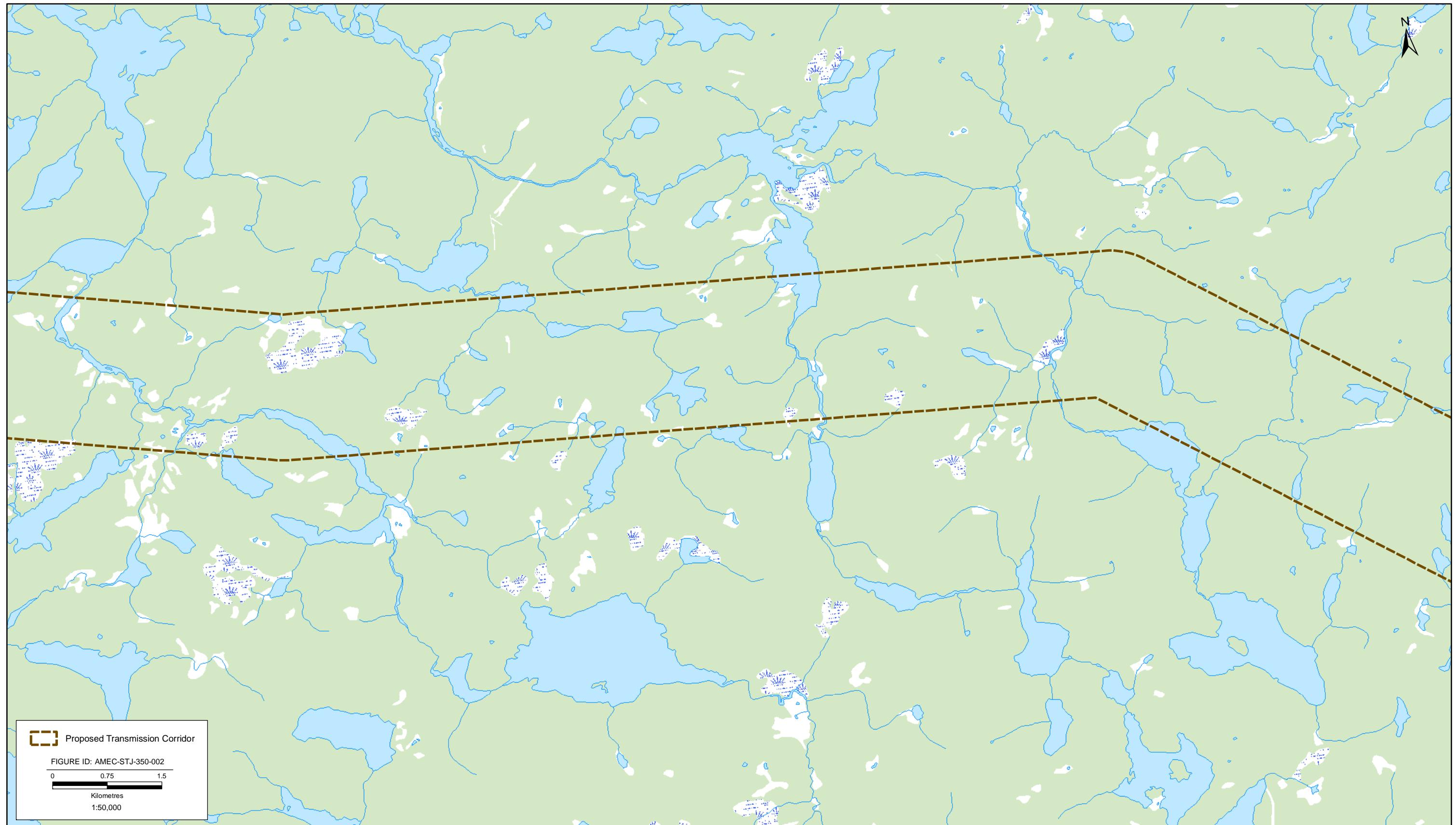


FIGURE 5.2

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 2

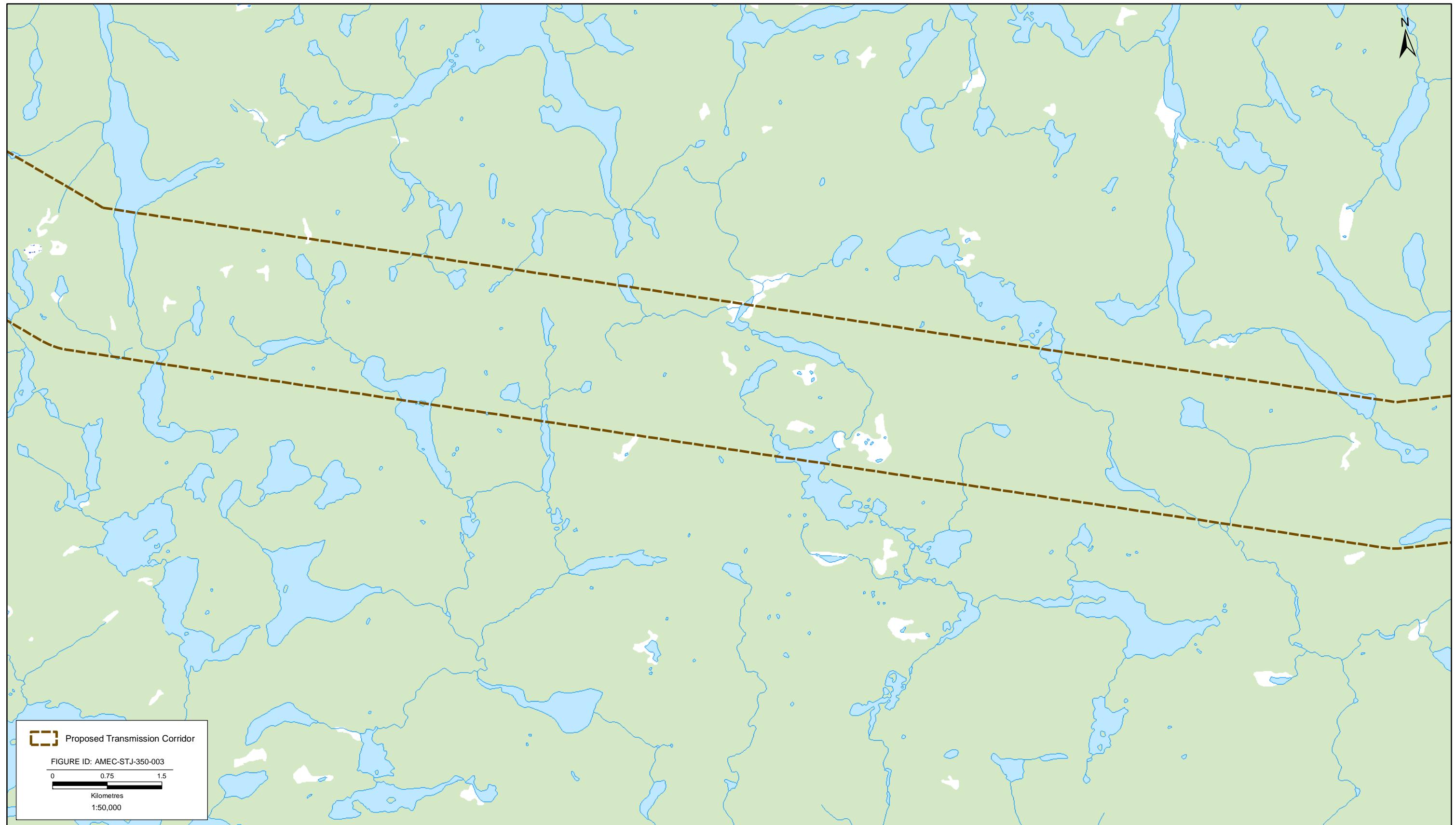


FIGURE 5.3

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 3

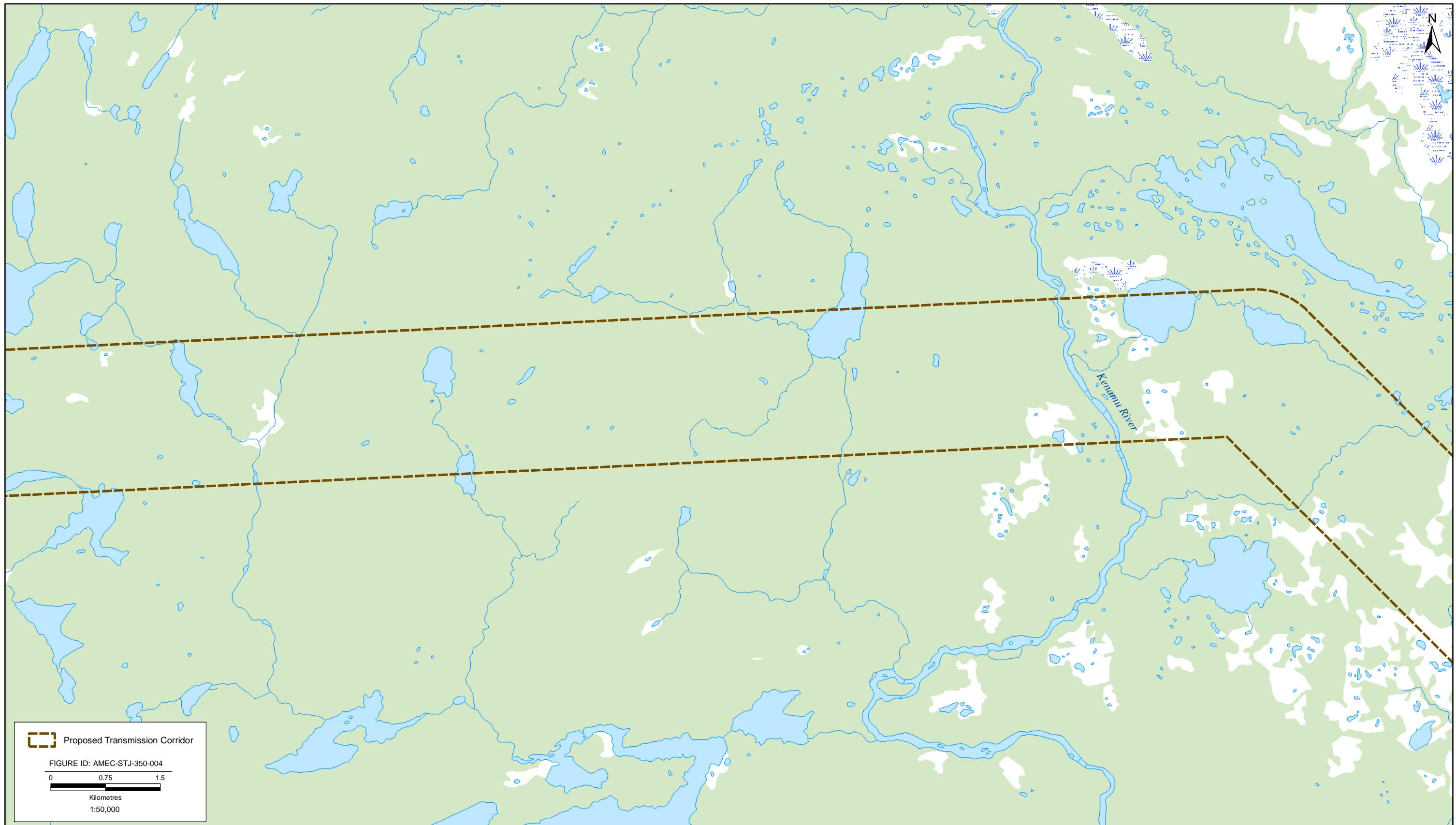


FIGURE 5.4

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 4

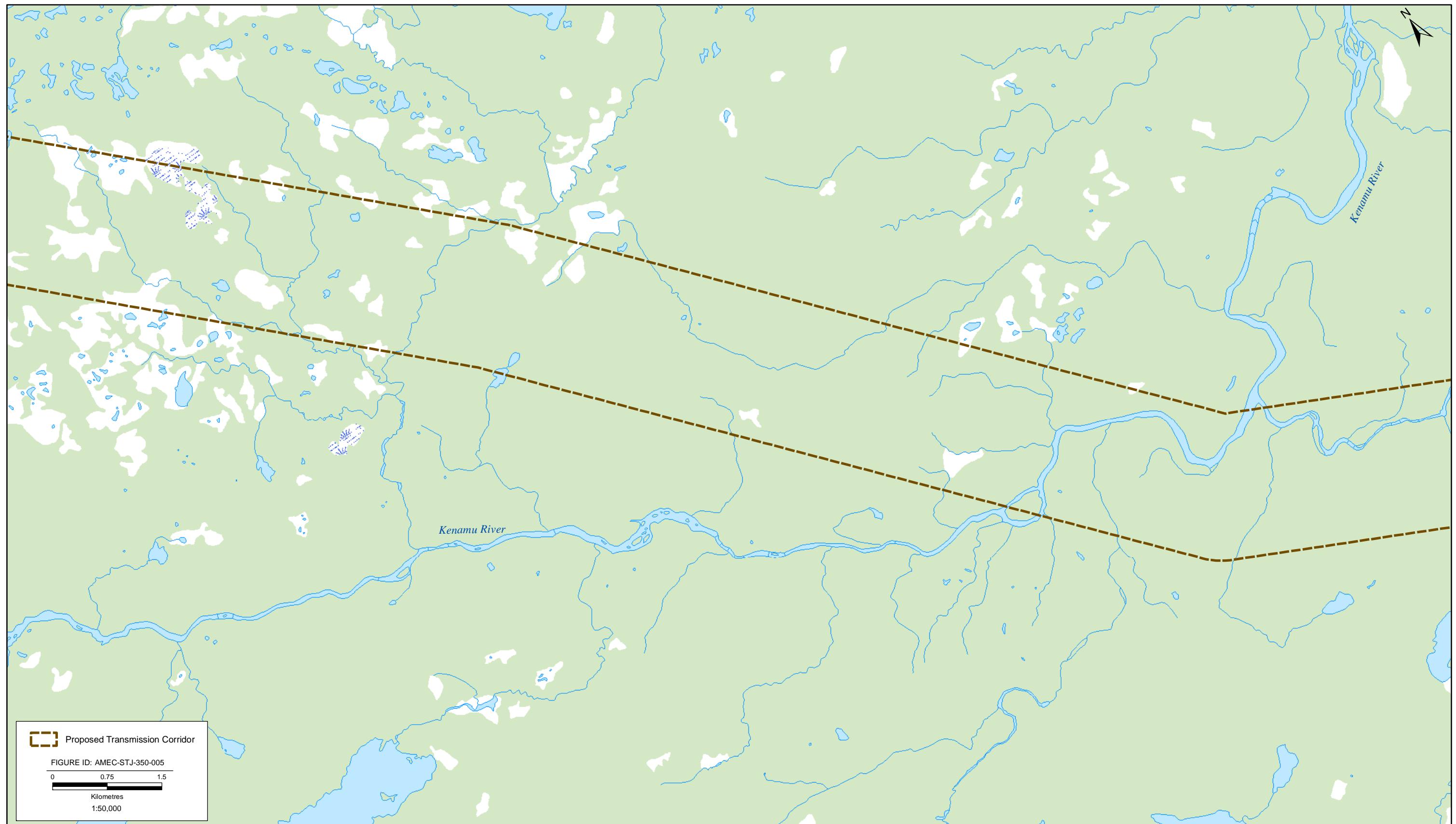


FIGURE 5.5

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 5

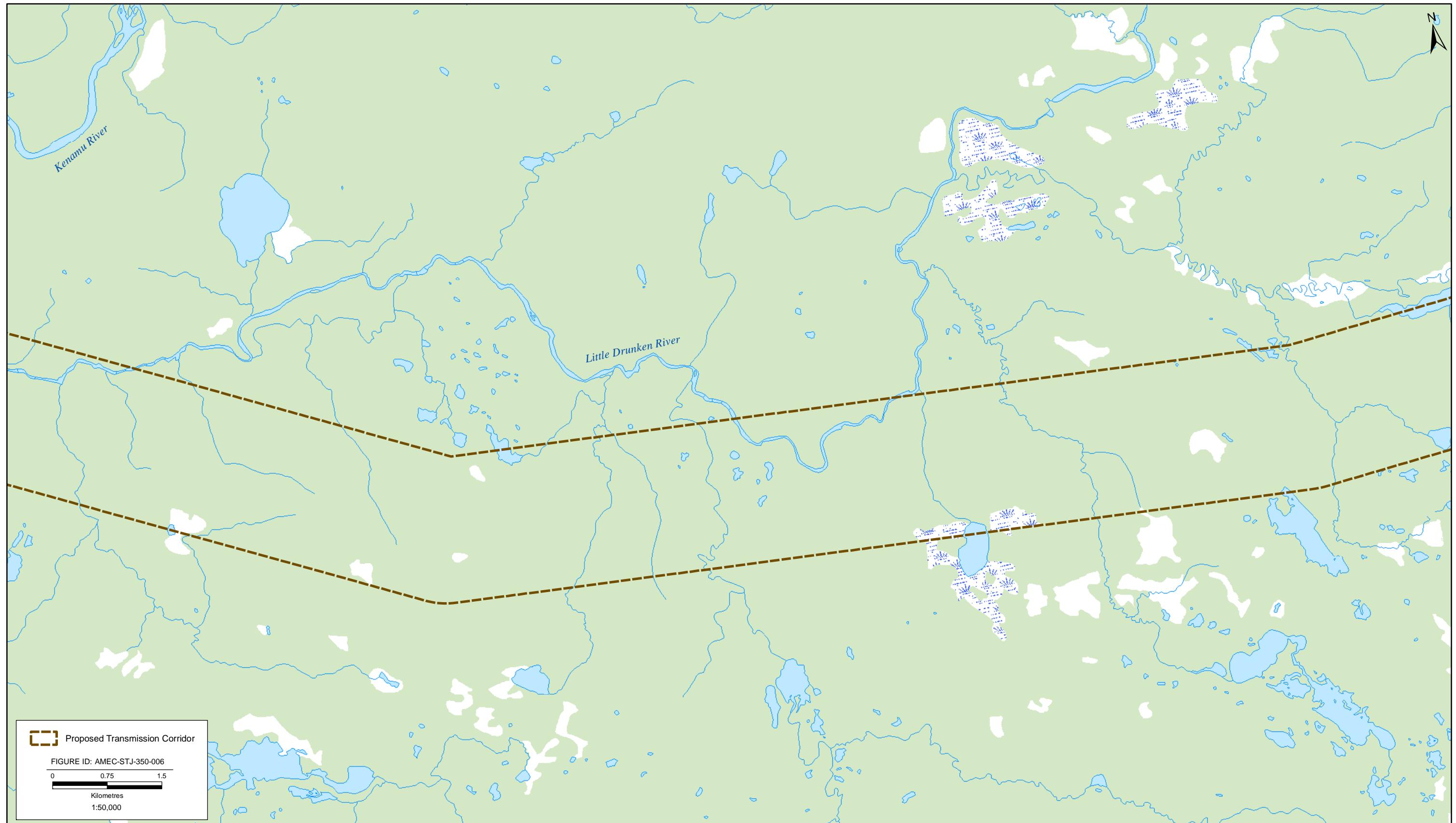


FIGURE 5.6

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 6

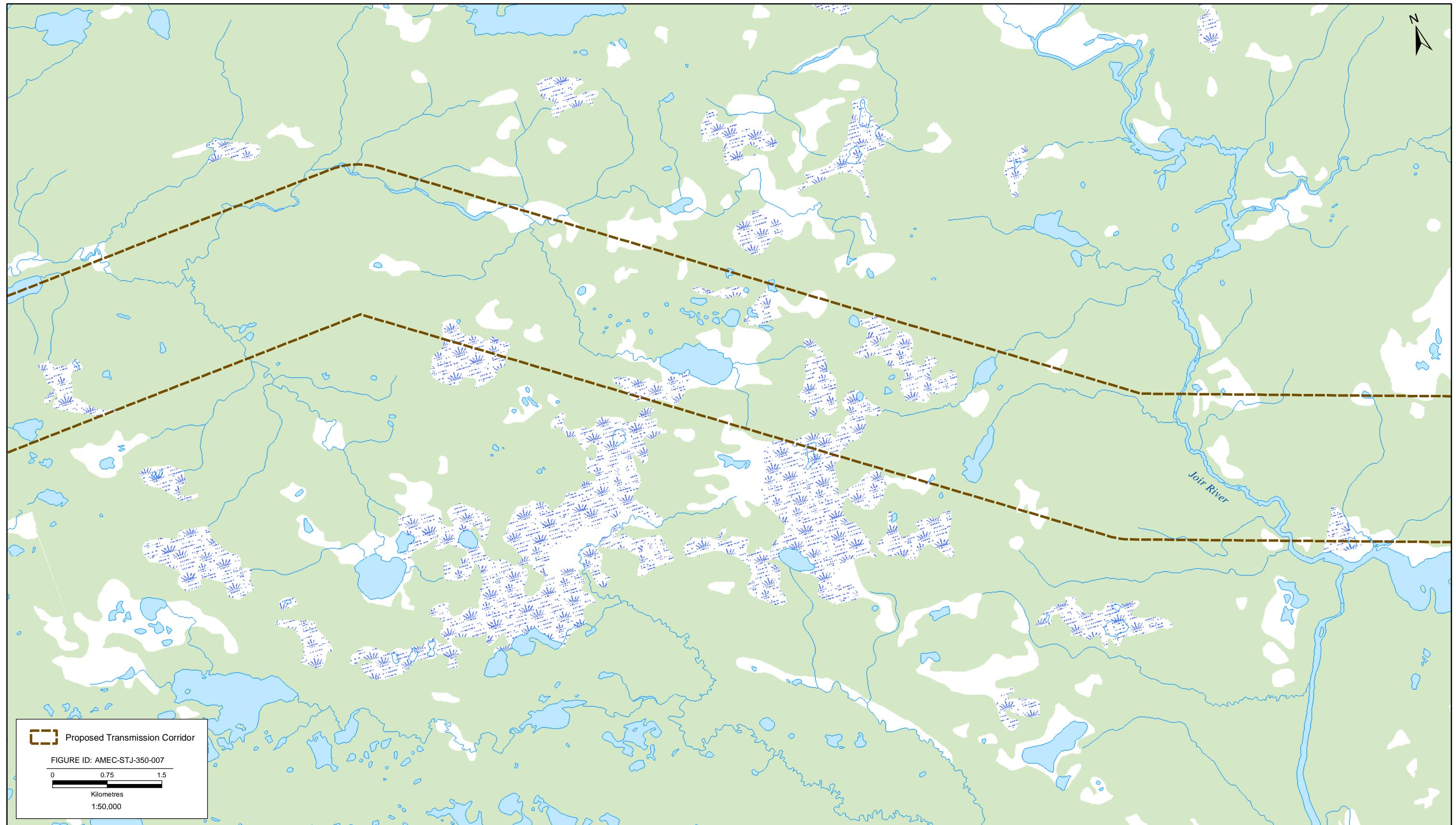


FIGURE 5.7

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 7

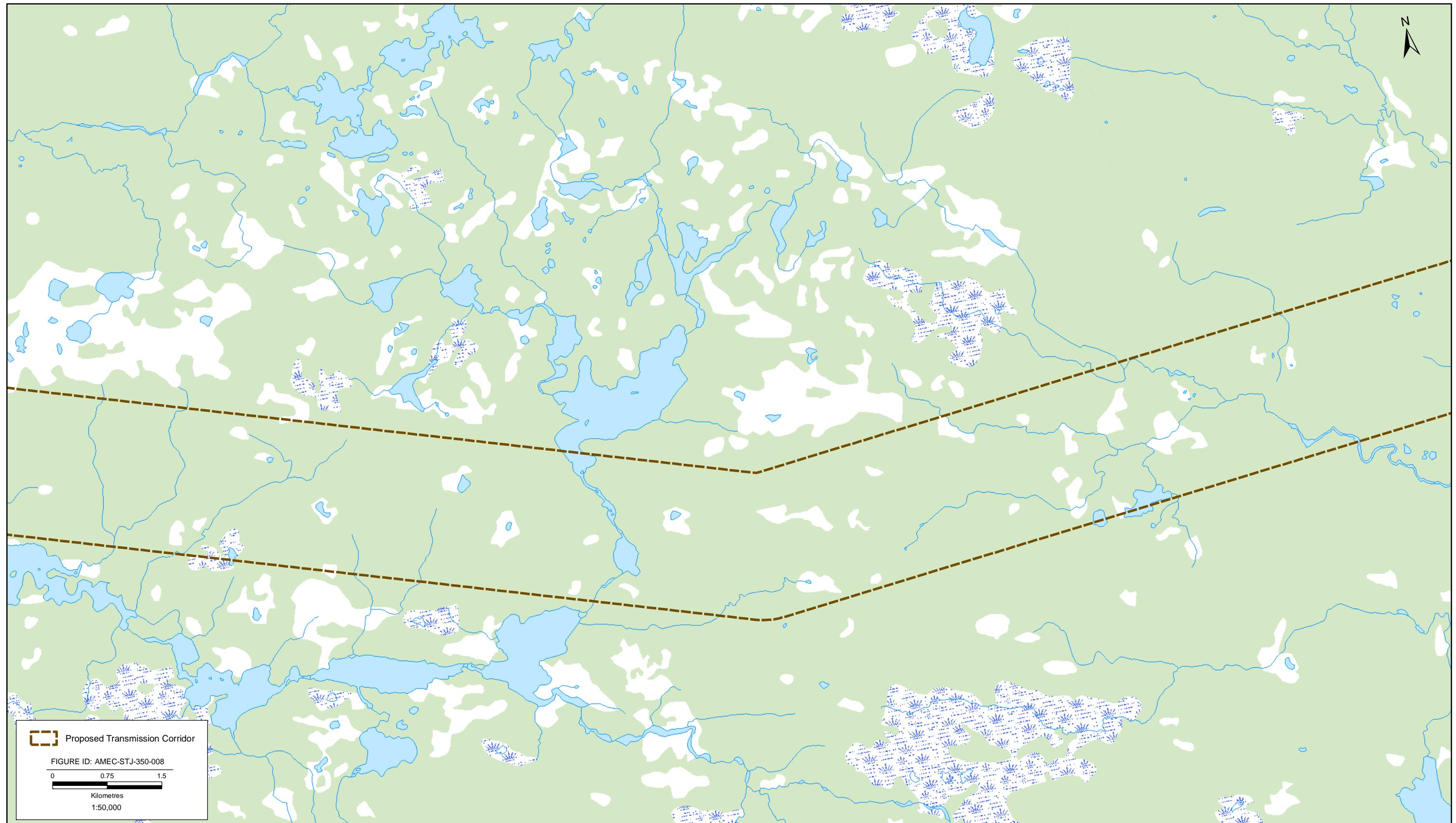


FIGURE 5.8

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 8

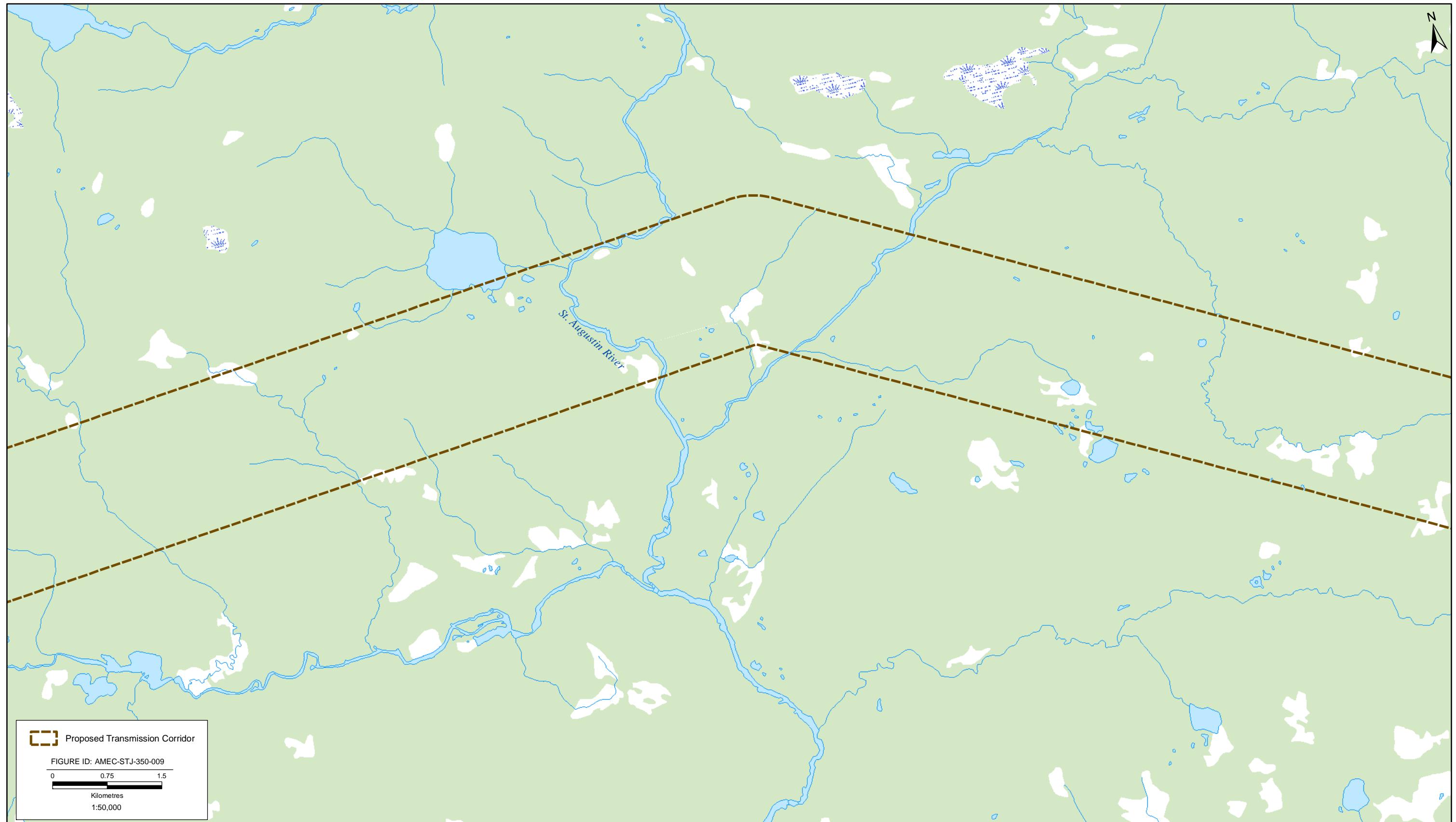


FIGURE 5.9

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - # 9

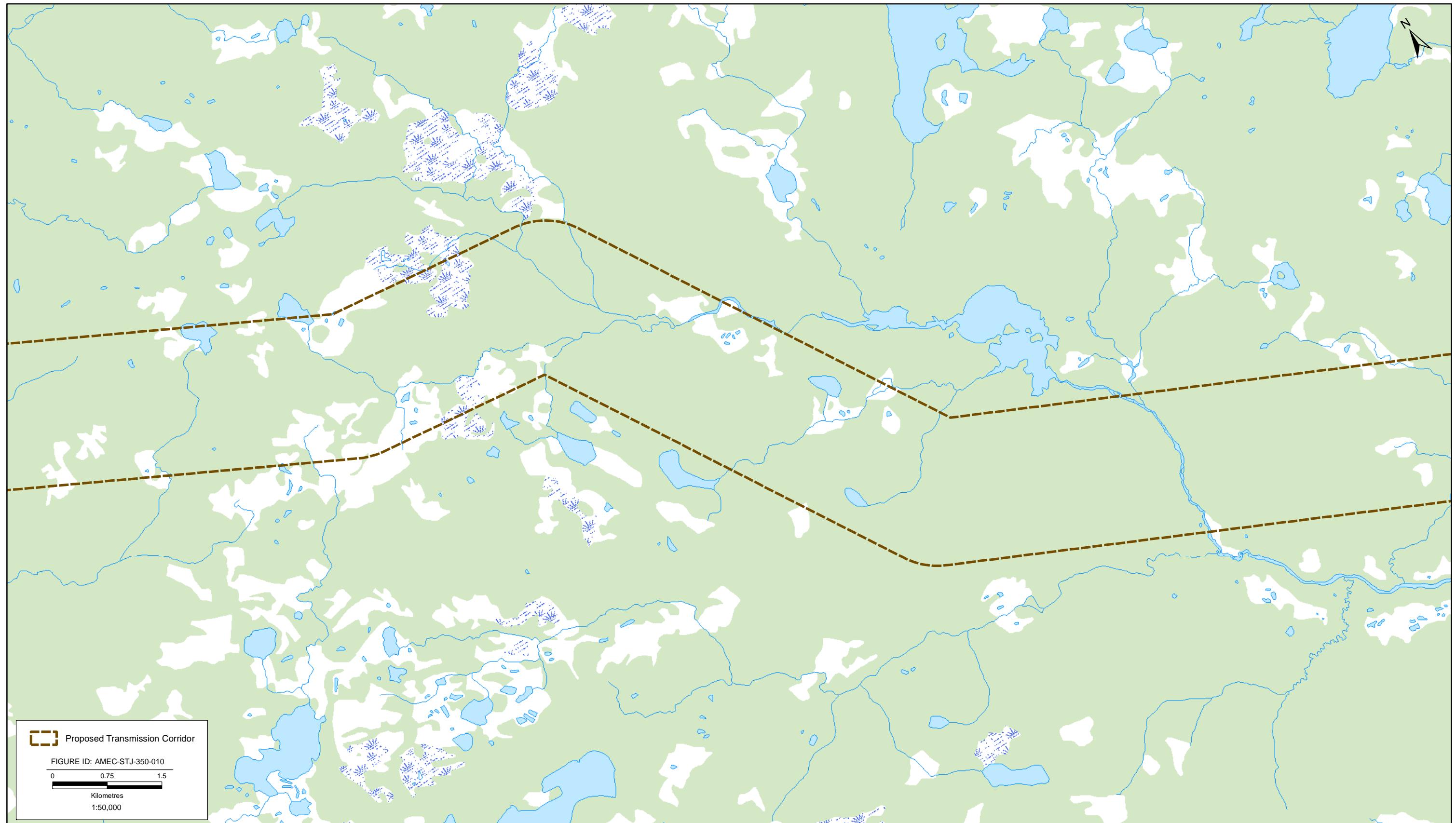


FIGURE 5.10

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #10



FIGURE 5.11

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #11

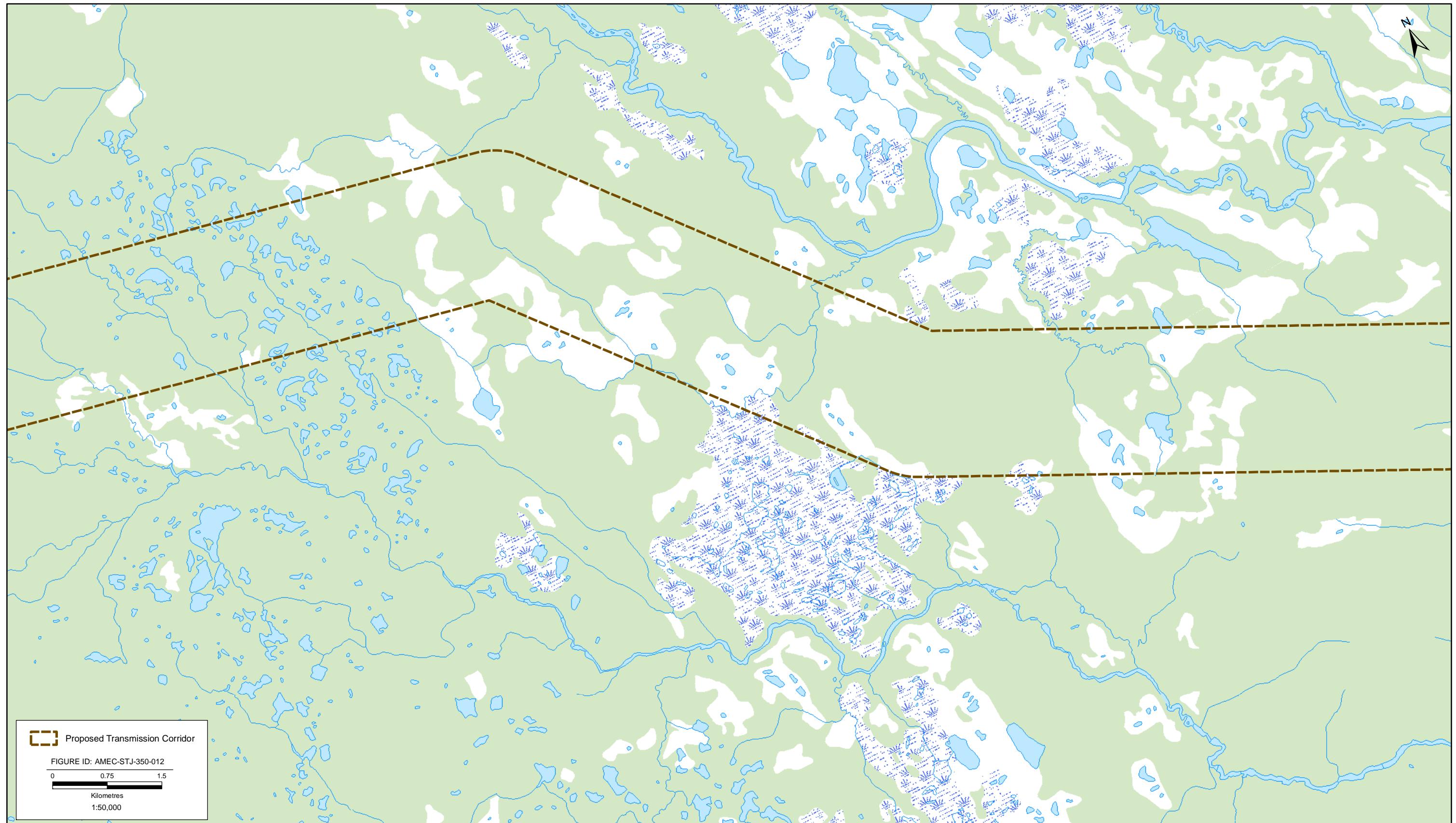


FIGURE 5.12

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #12

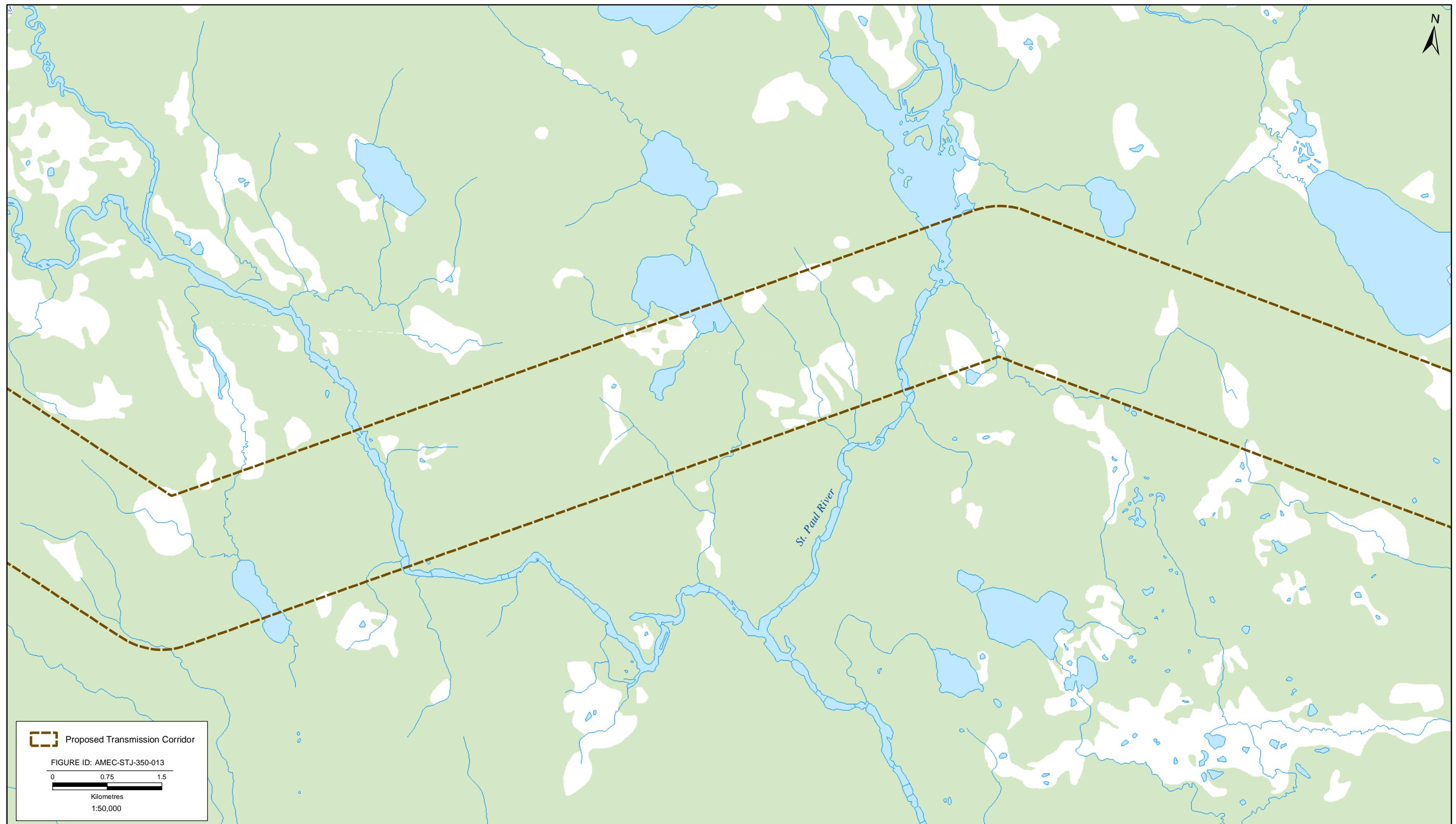


FIGURE 5.13

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #13

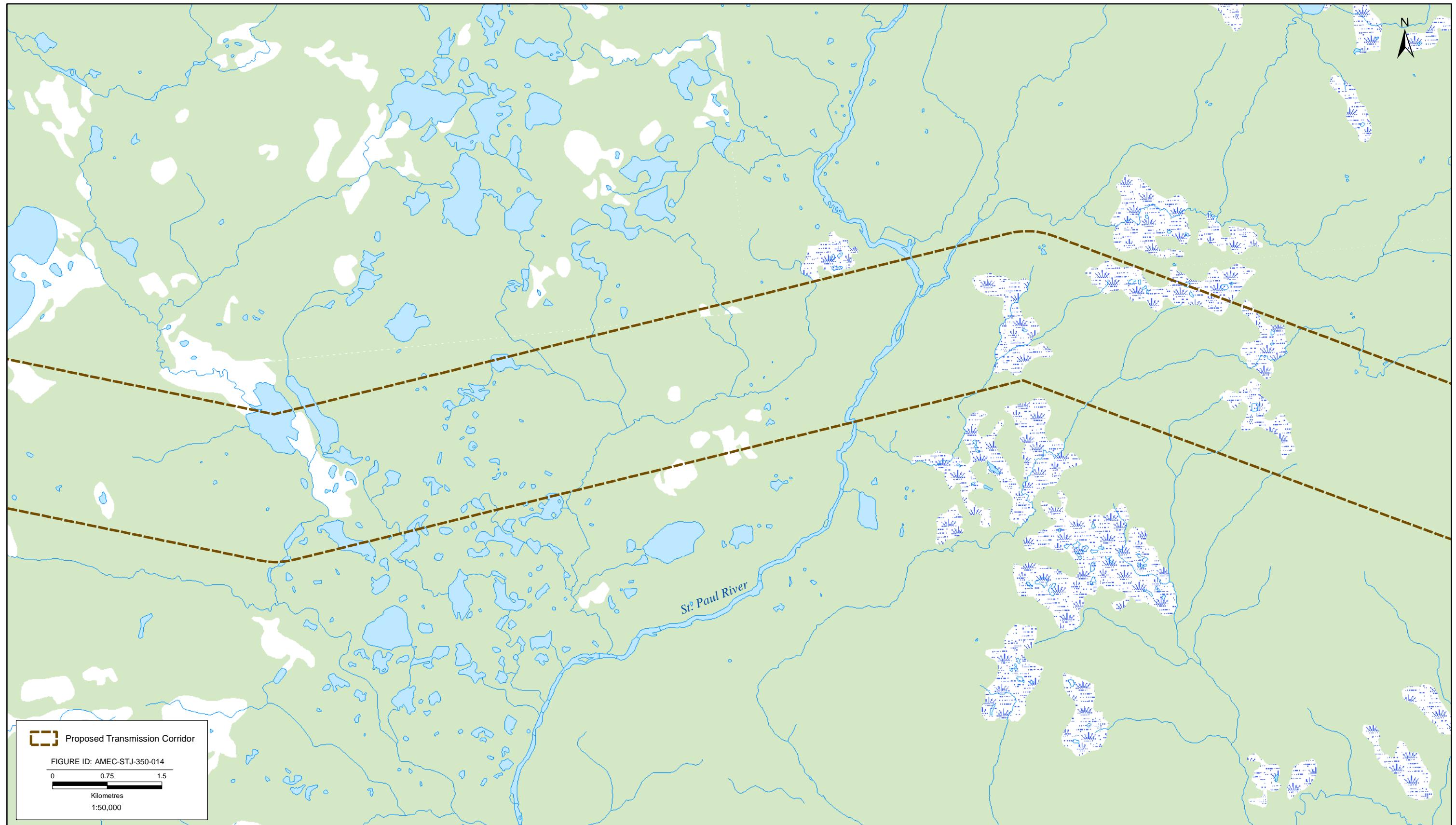


FIGURE 5.14

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #14

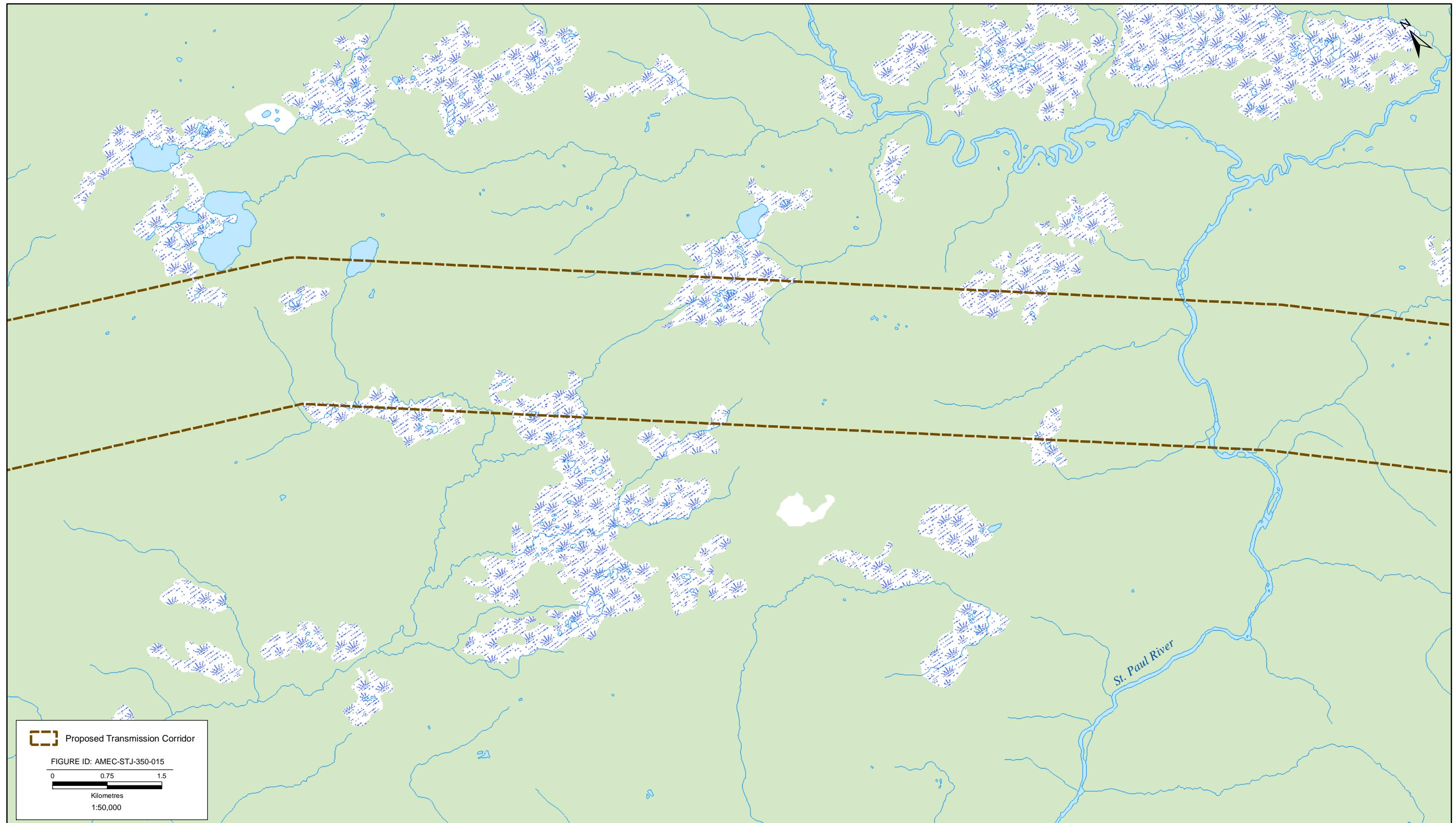


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Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #15

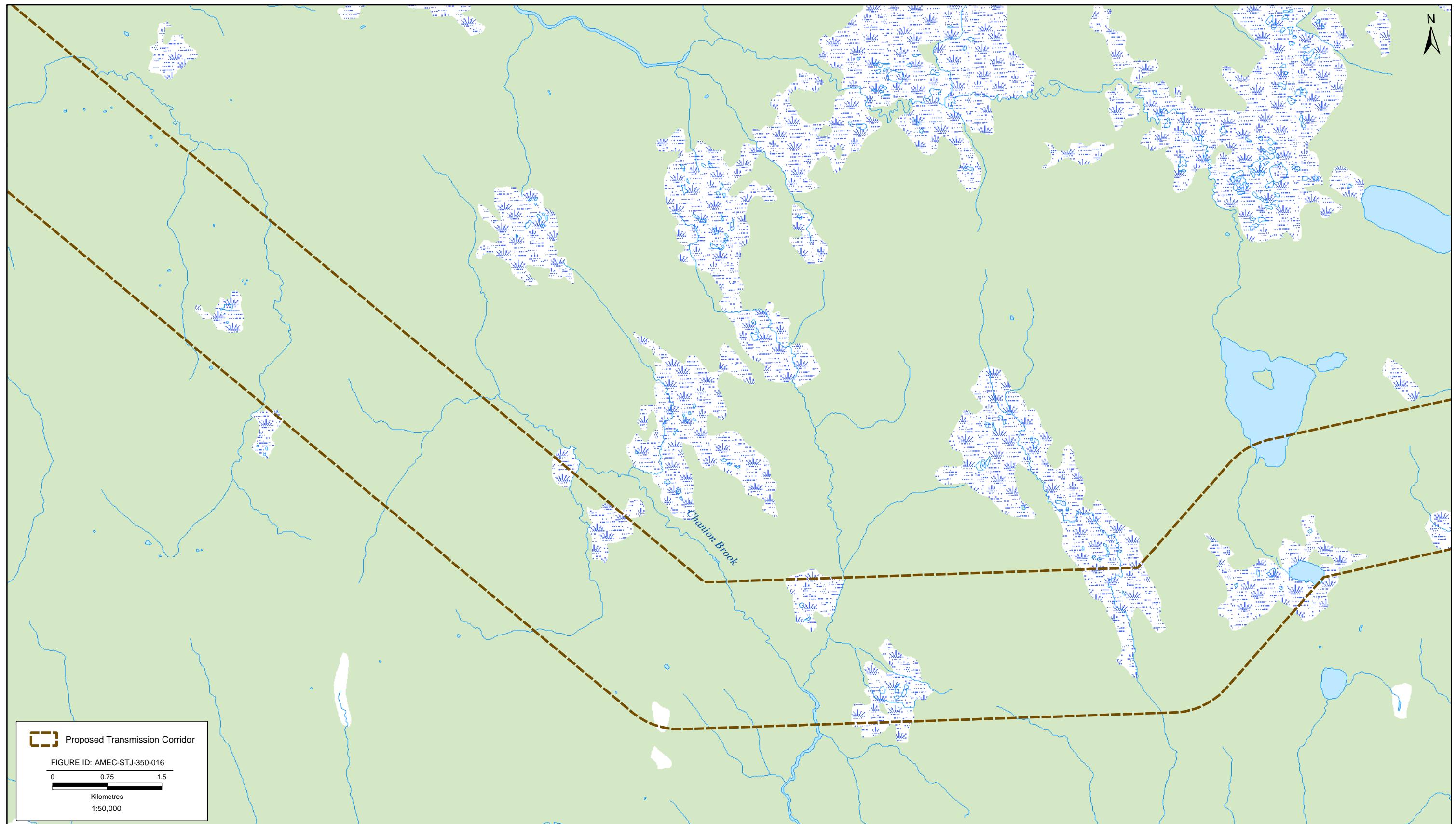


FIGURE 5.16

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #16

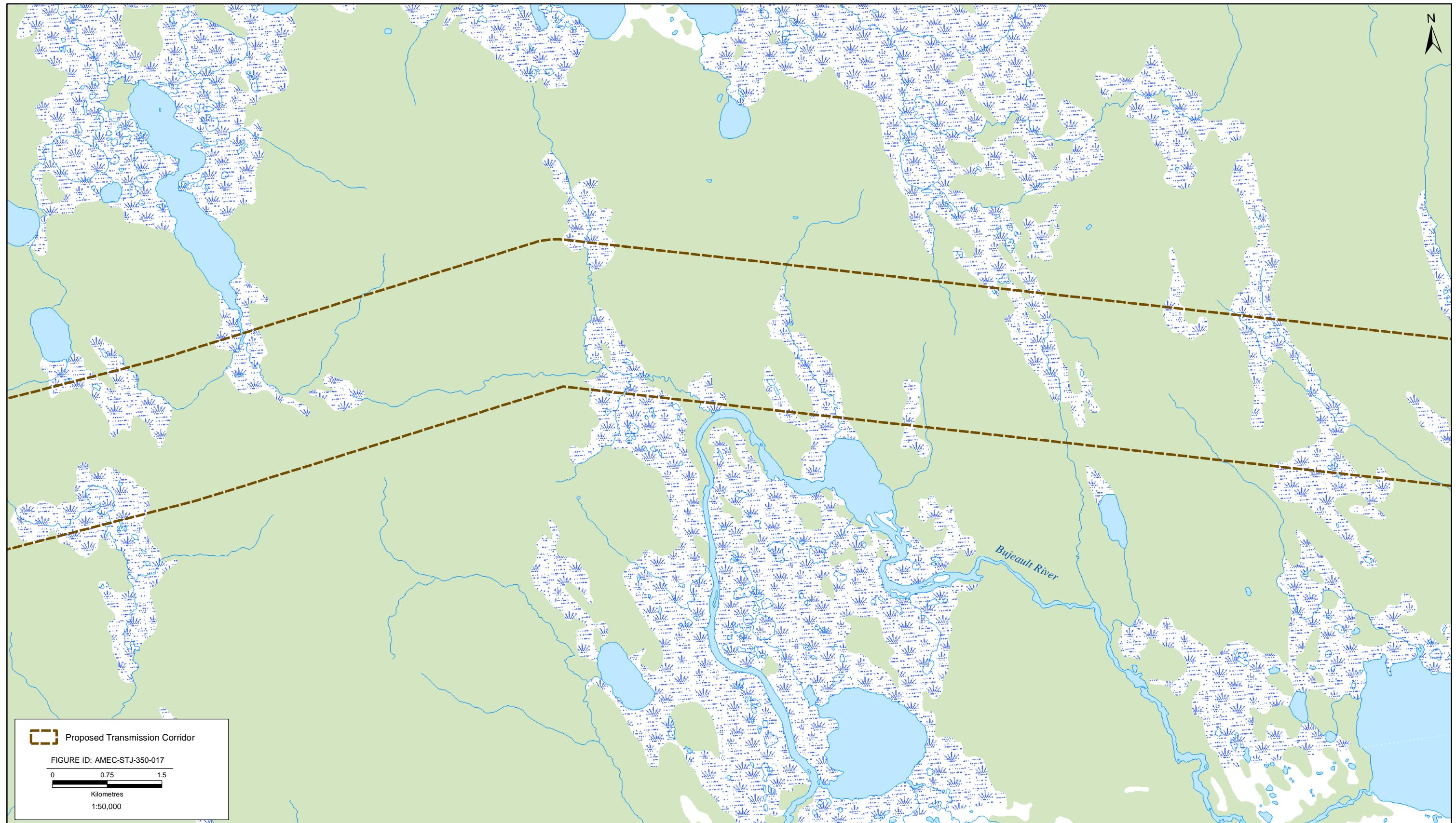


FIGURE 5.17

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #17

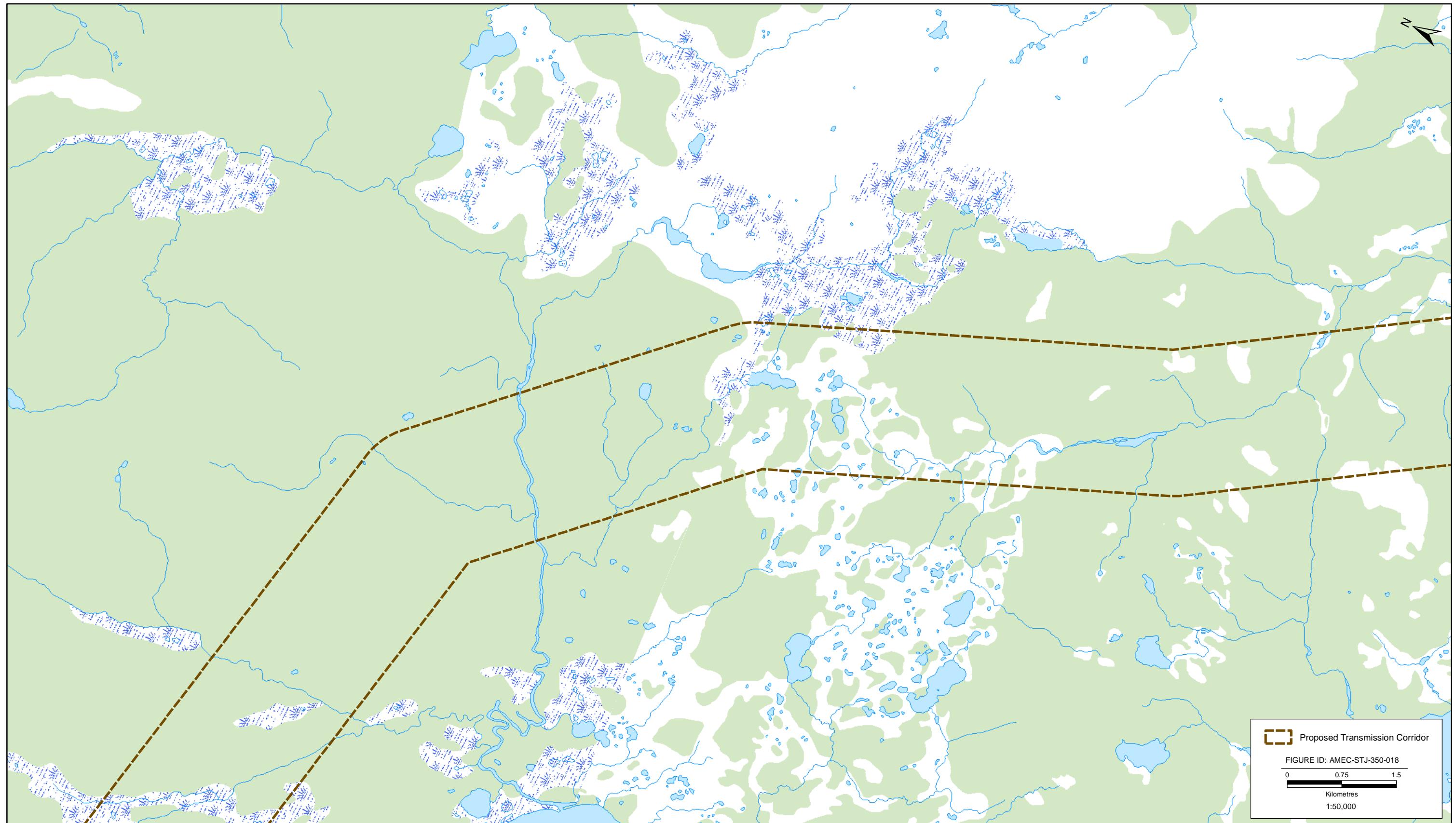


FIGURE 5.18

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #18

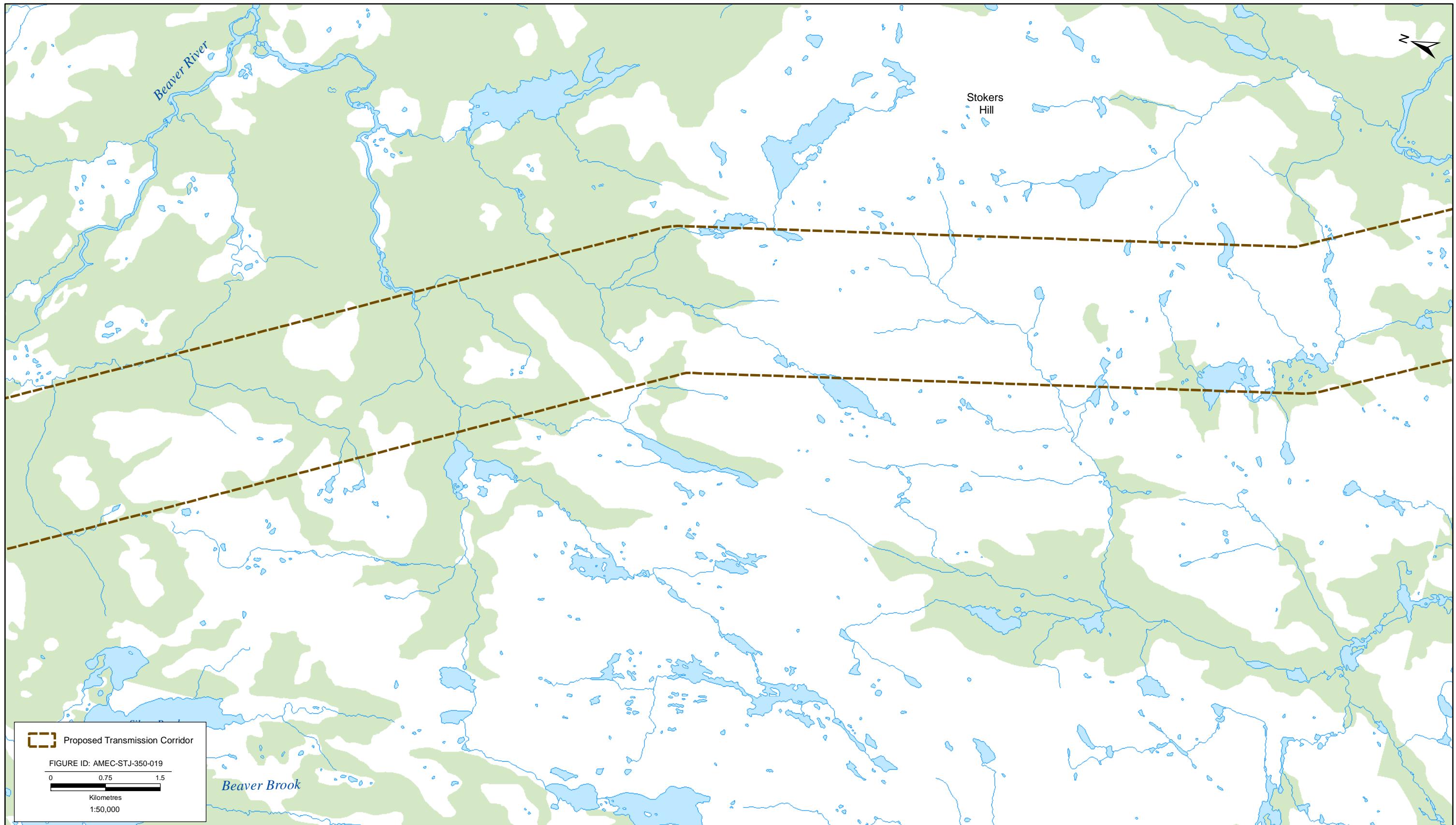


FIGURE 5.19

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #19



FIGURE 5.20

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #20



FIGURE 5.21

Labrador - Island Transmission Link: Gull Island to Strait of Belle Isle - #21

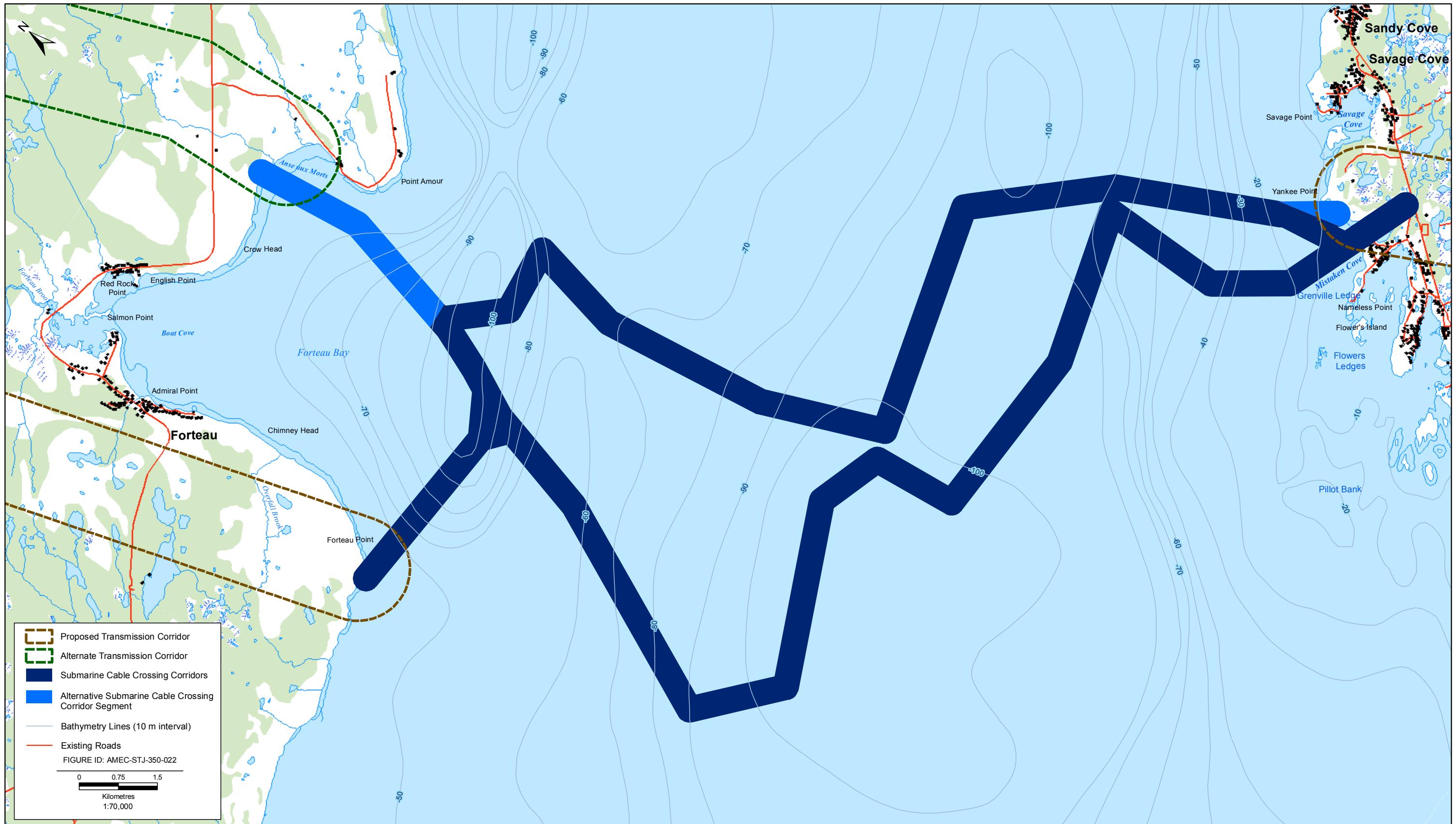


FIGURE 5.22

Labrador - Island Transmission Link: Strait of Belle Isle - #22

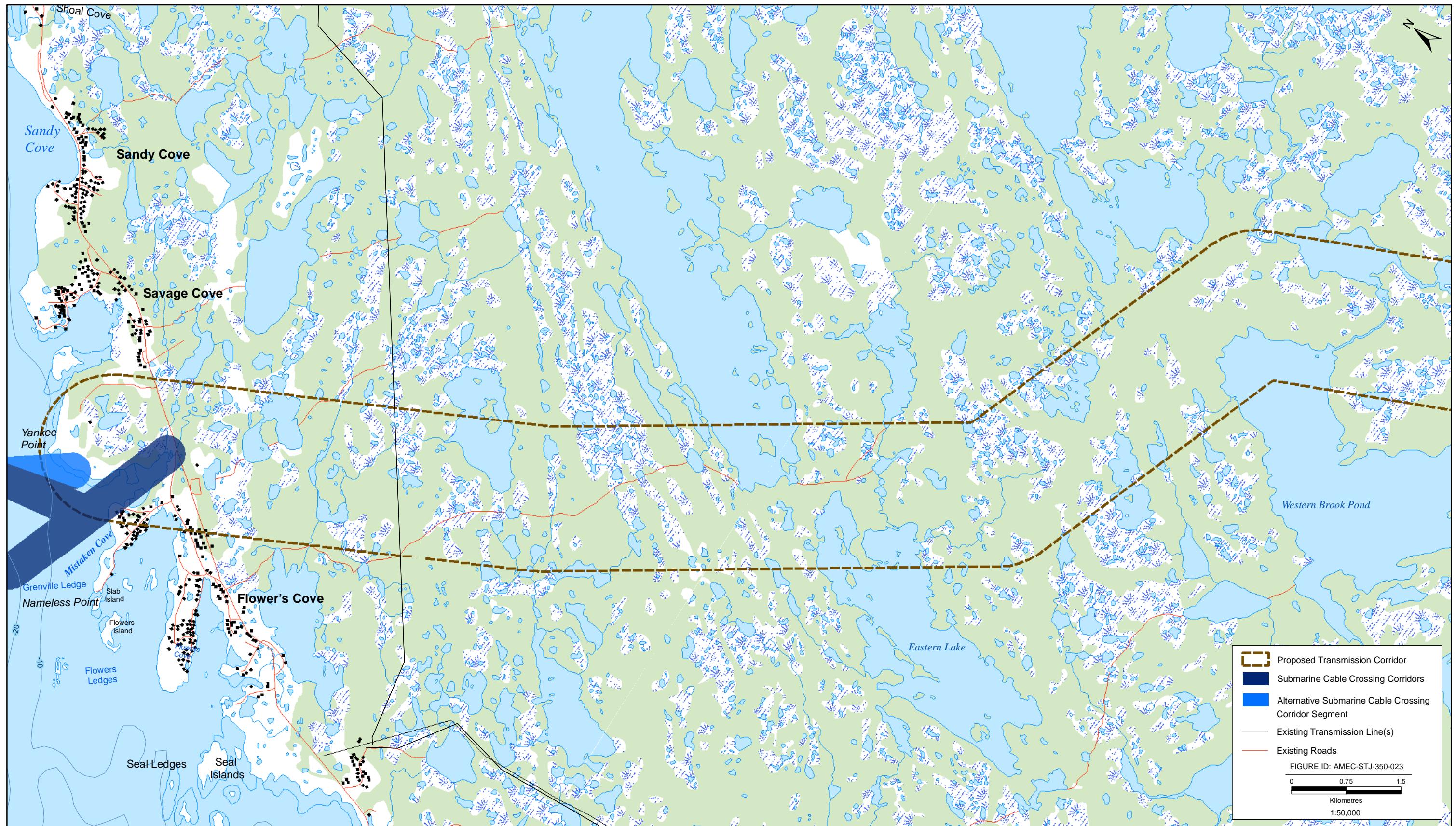
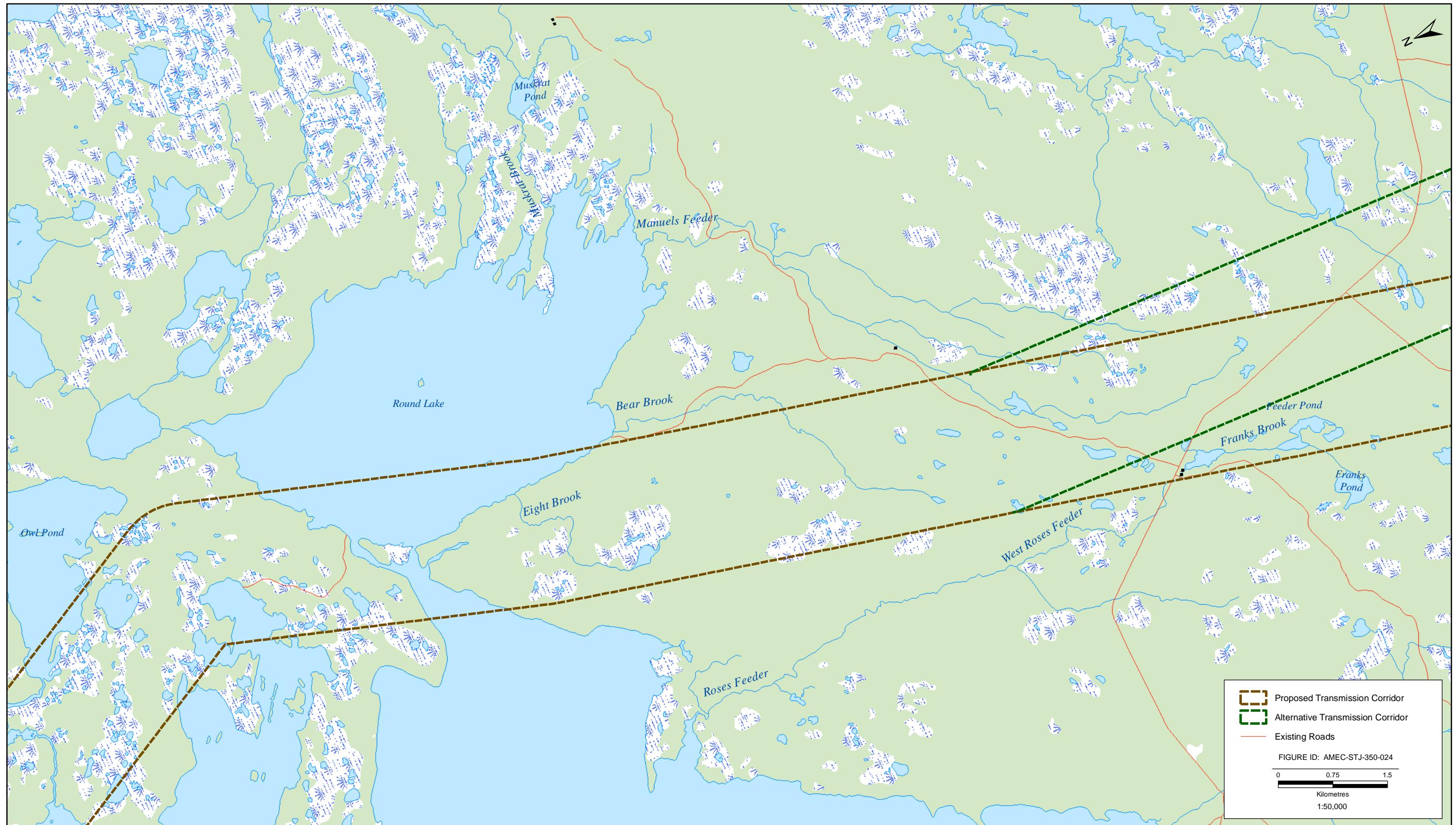


FIGURE 5.23

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #23



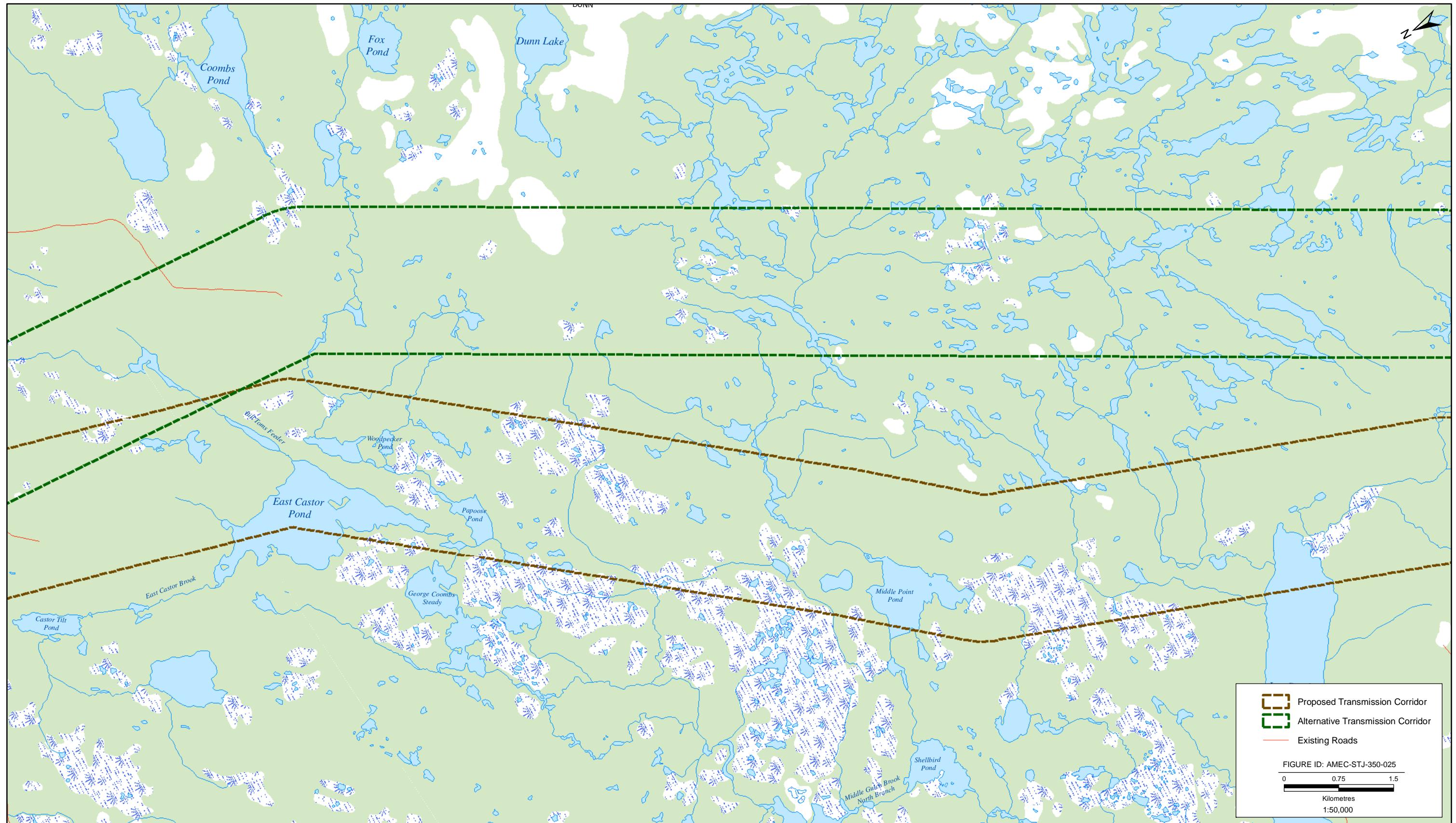


FIGURE 5.25
Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #25

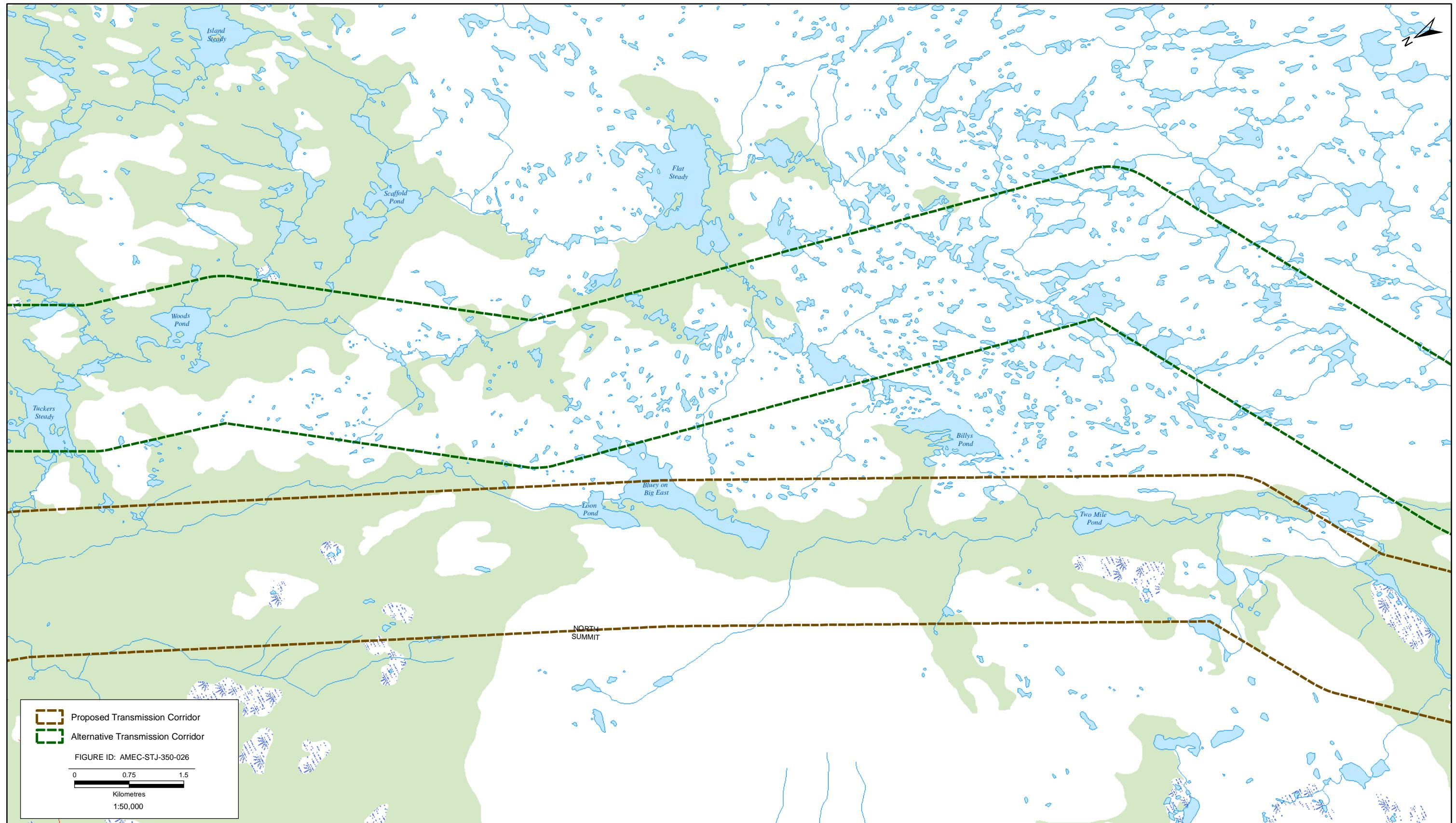
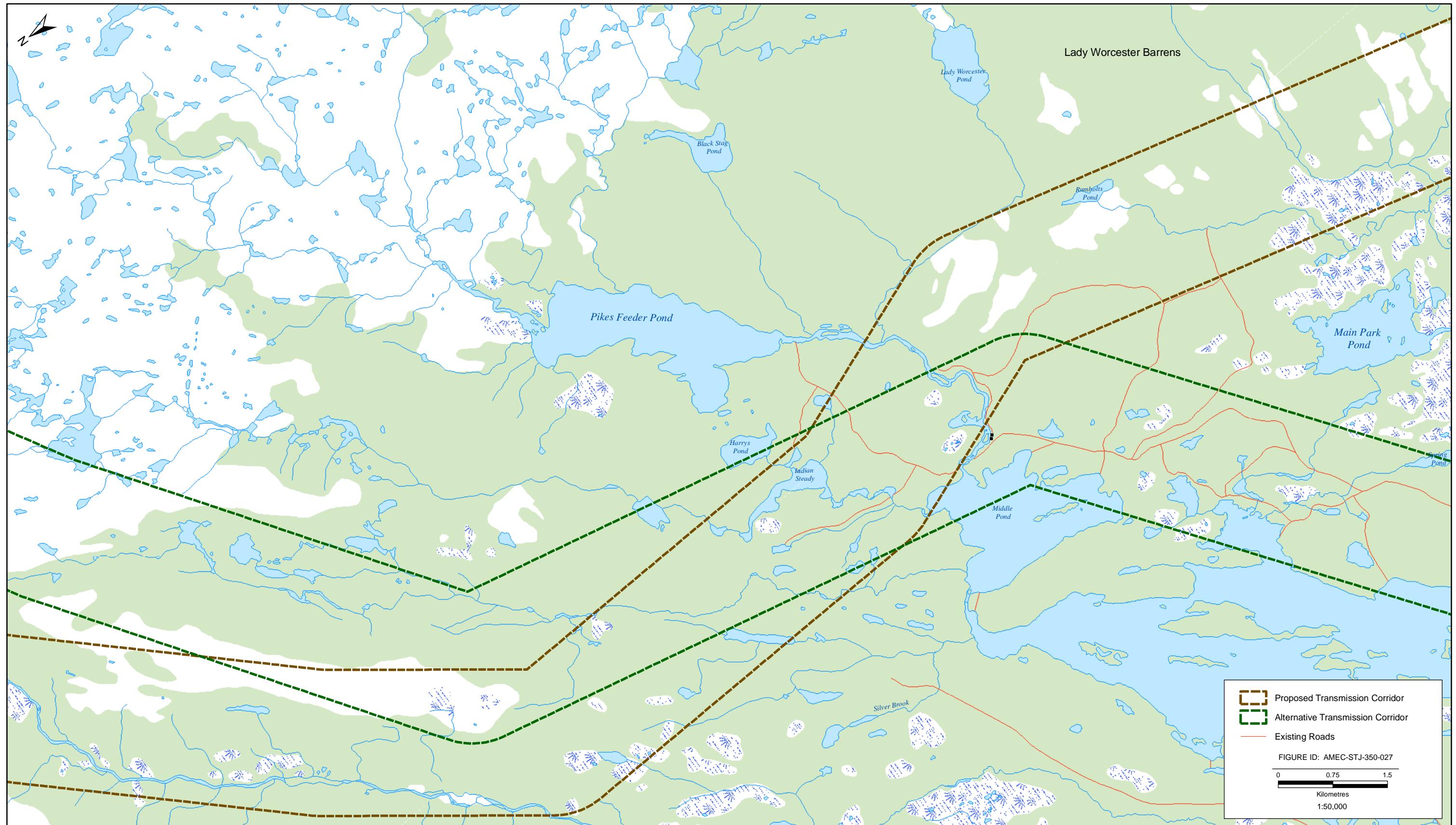


FIGURE 5.26

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #26



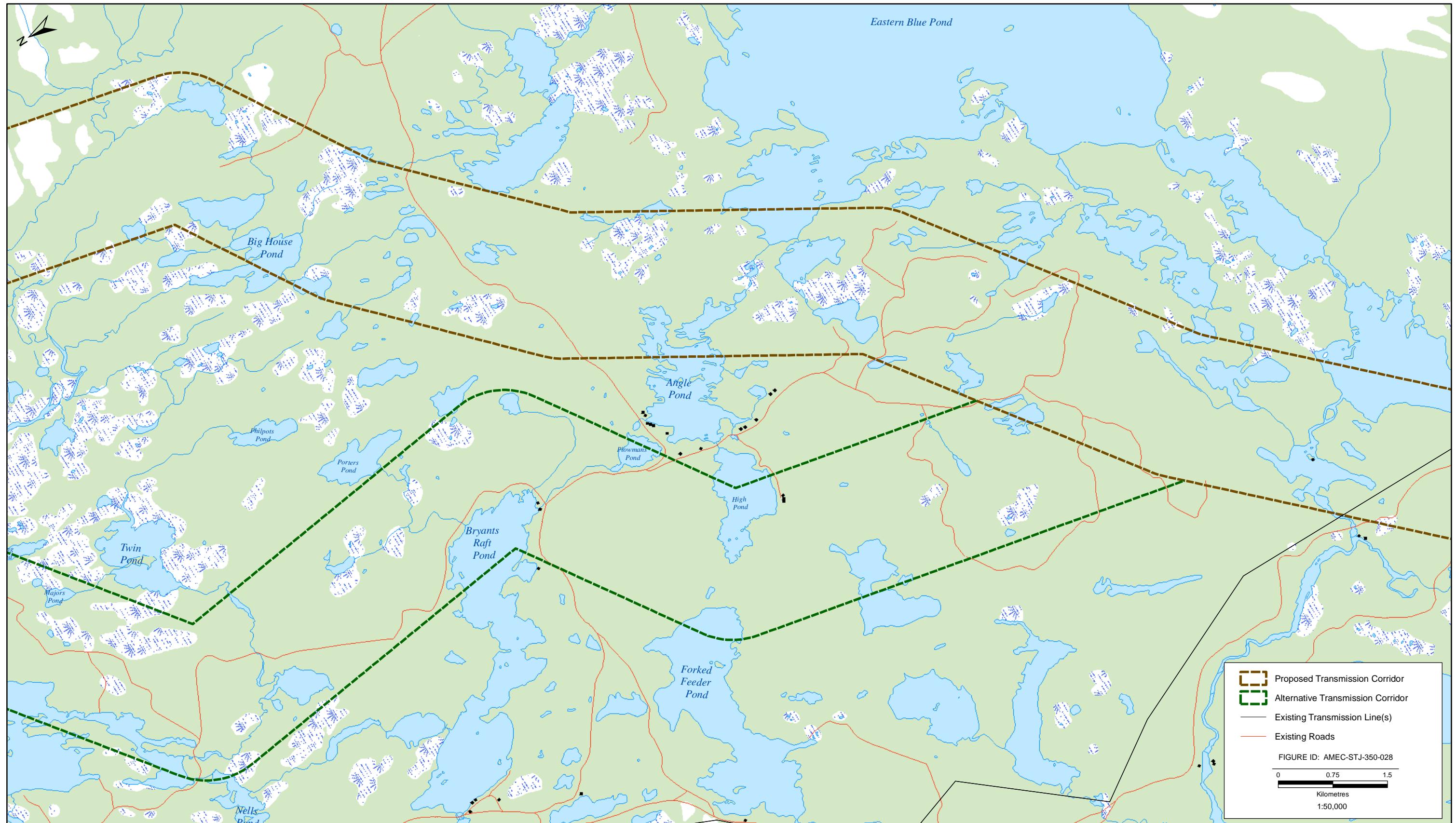


FIGURE 5.28

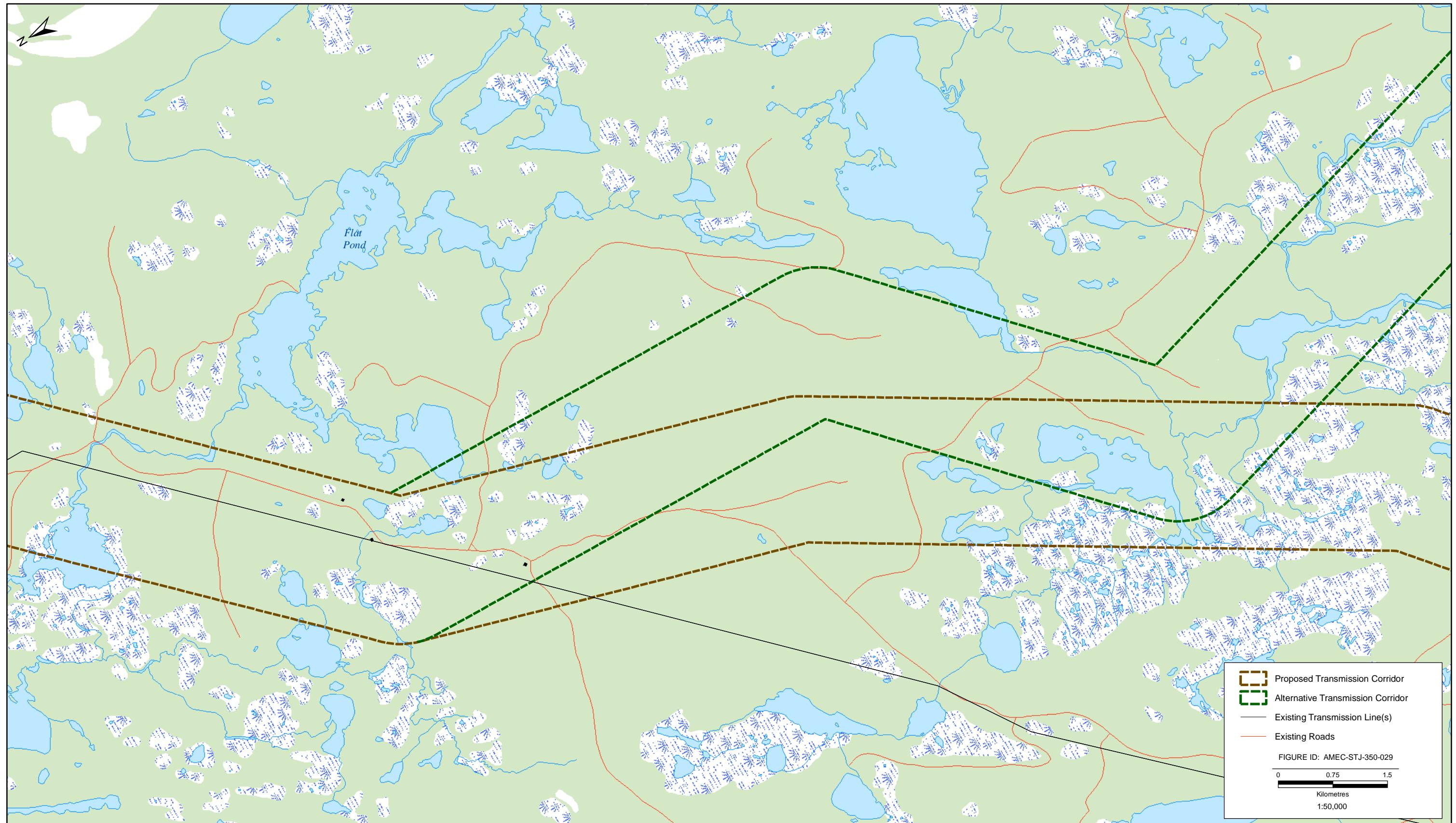


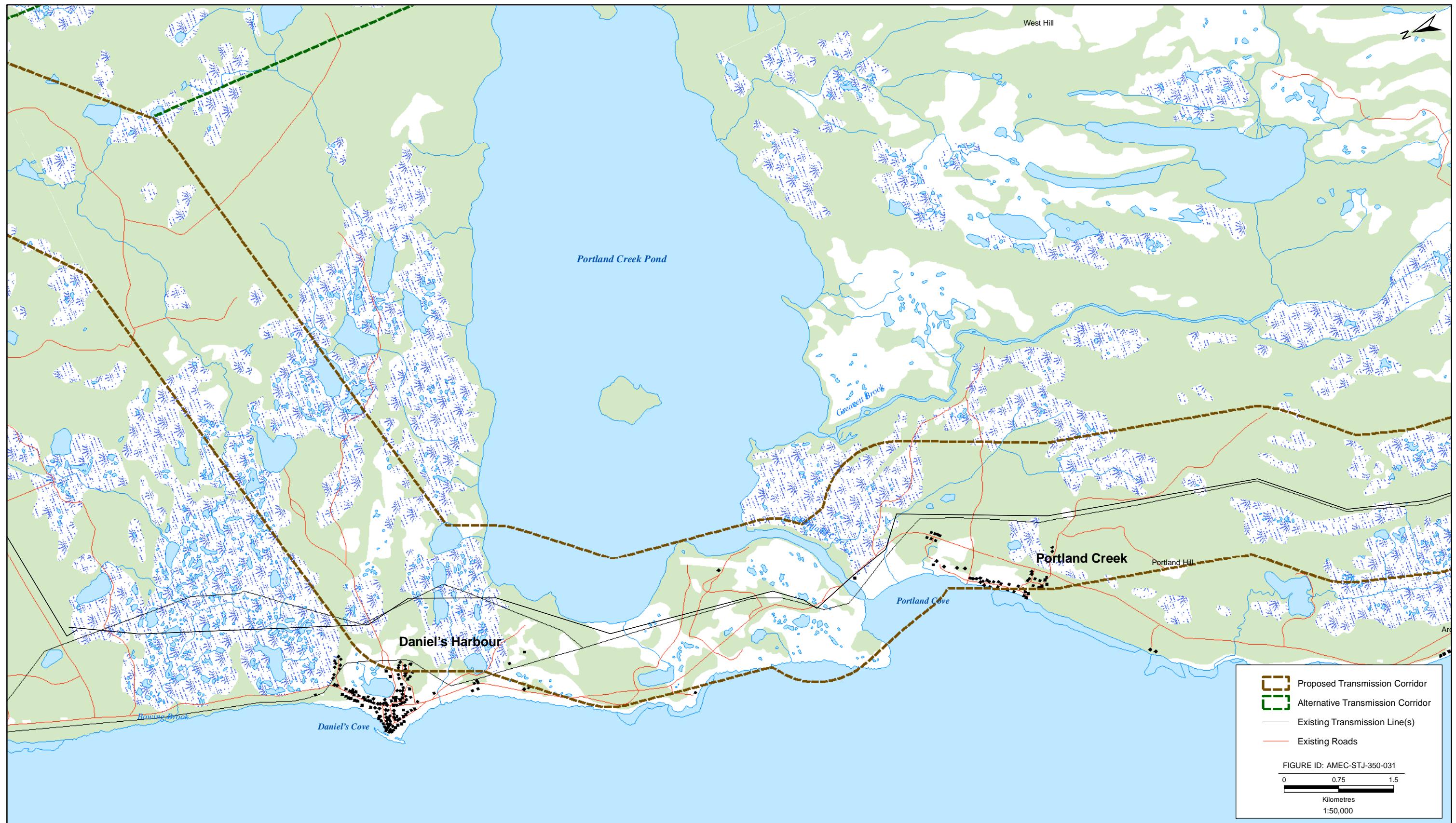
FIGURE 5.29

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #29



FIGURE 5.30

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #30





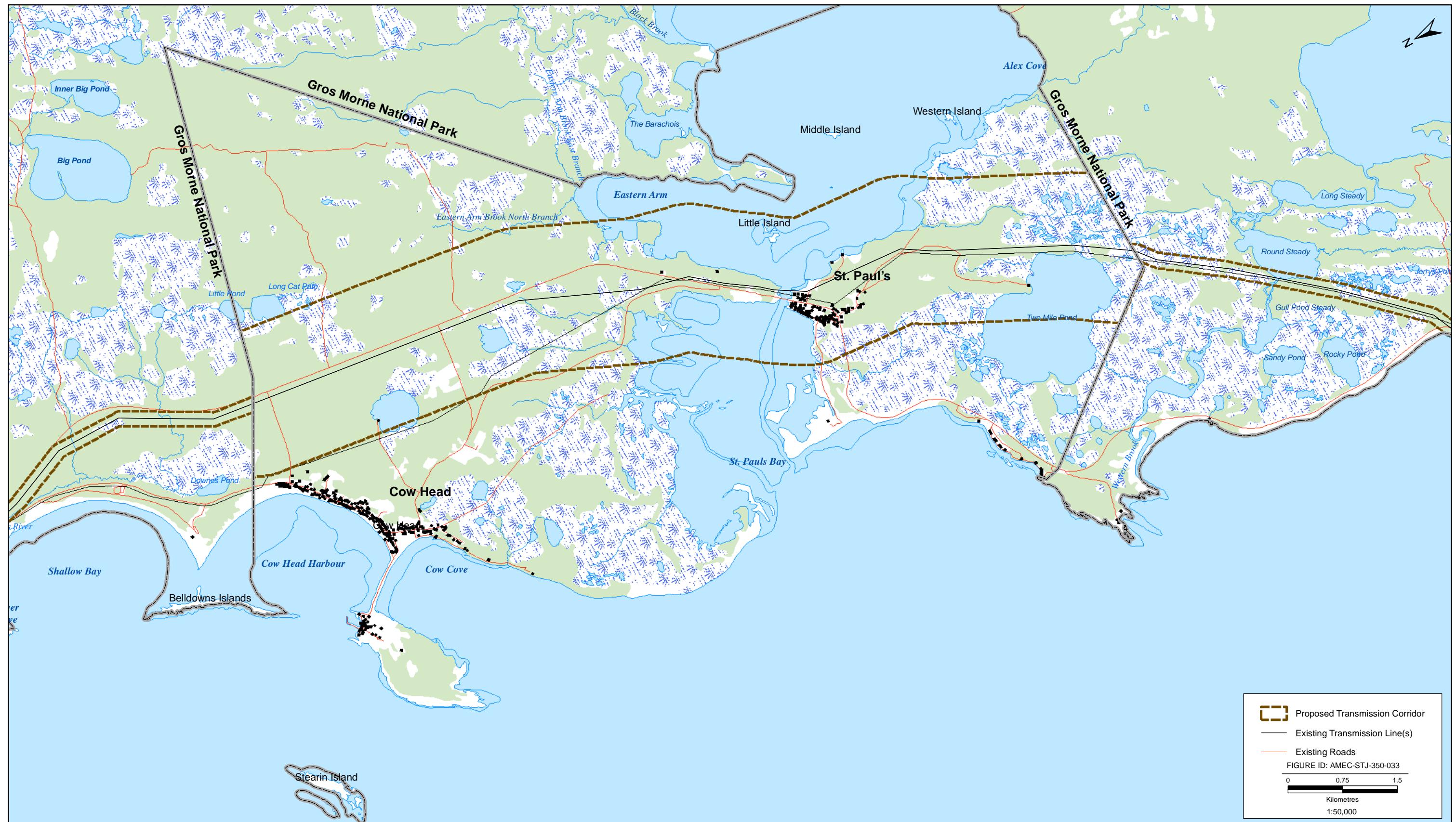


FIGURE 5.33

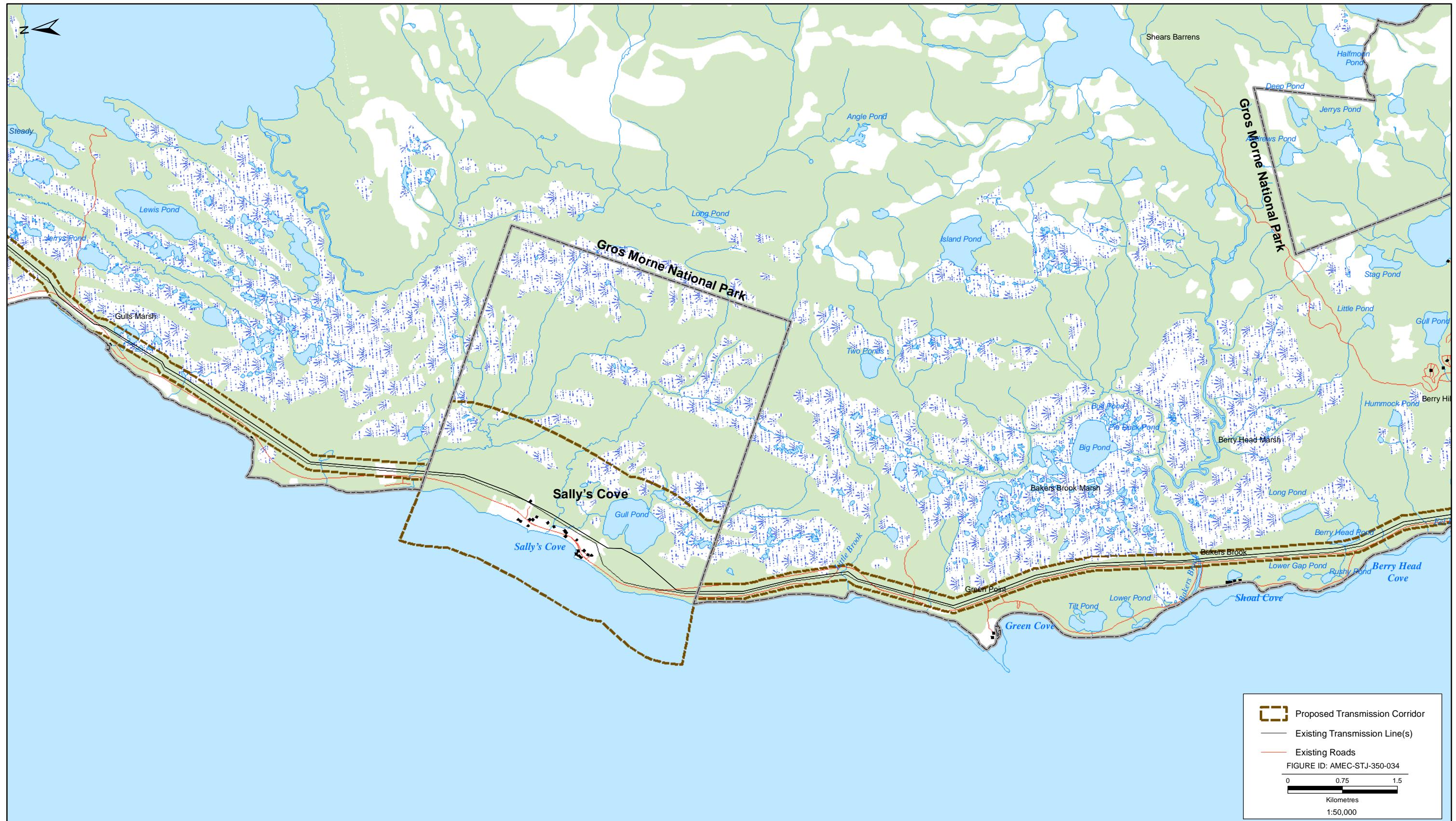




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Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #35



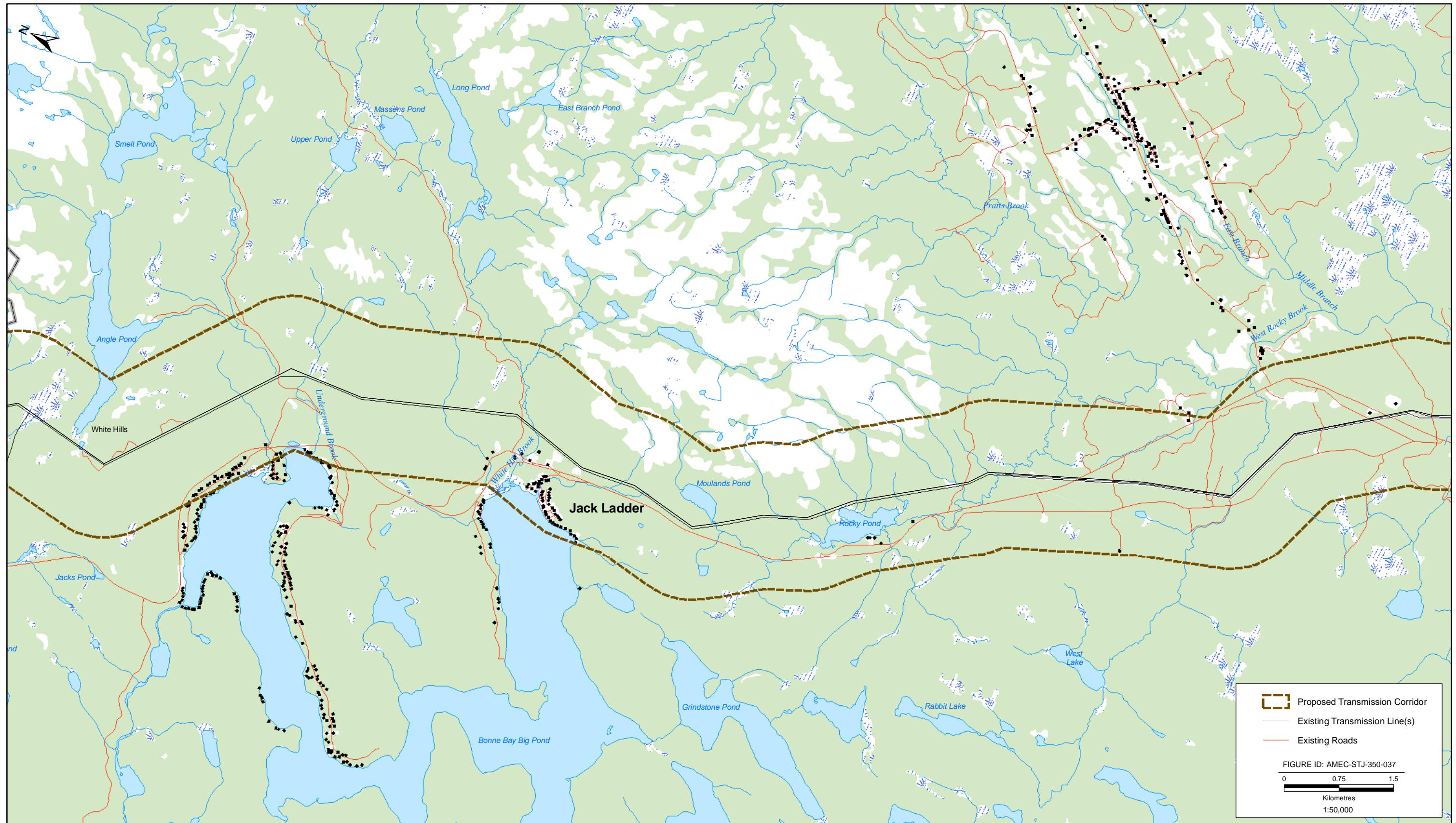


FIGURE 5.37

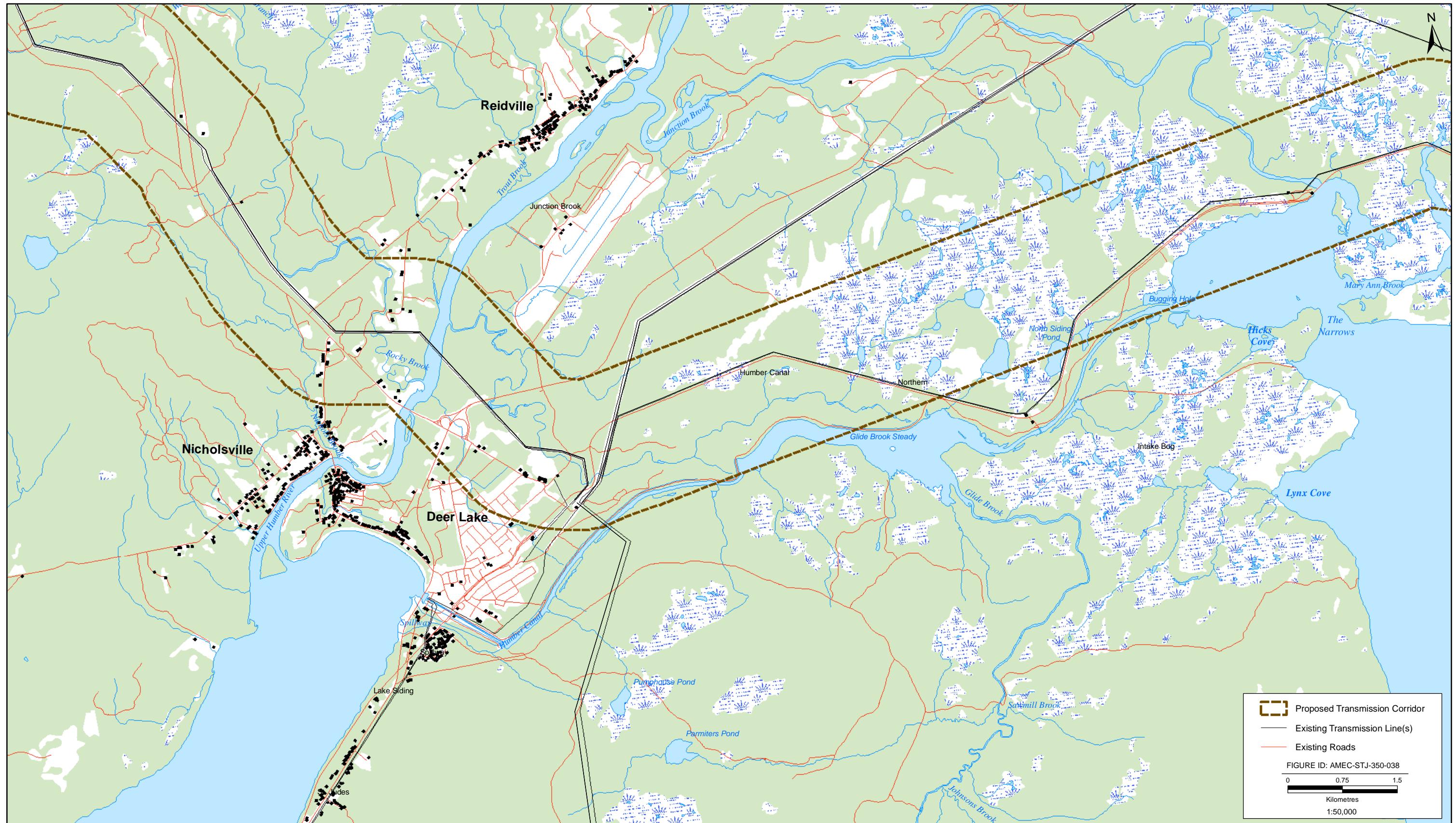


FIGURE 5.38

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #38



FIGURE 5.39

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #39

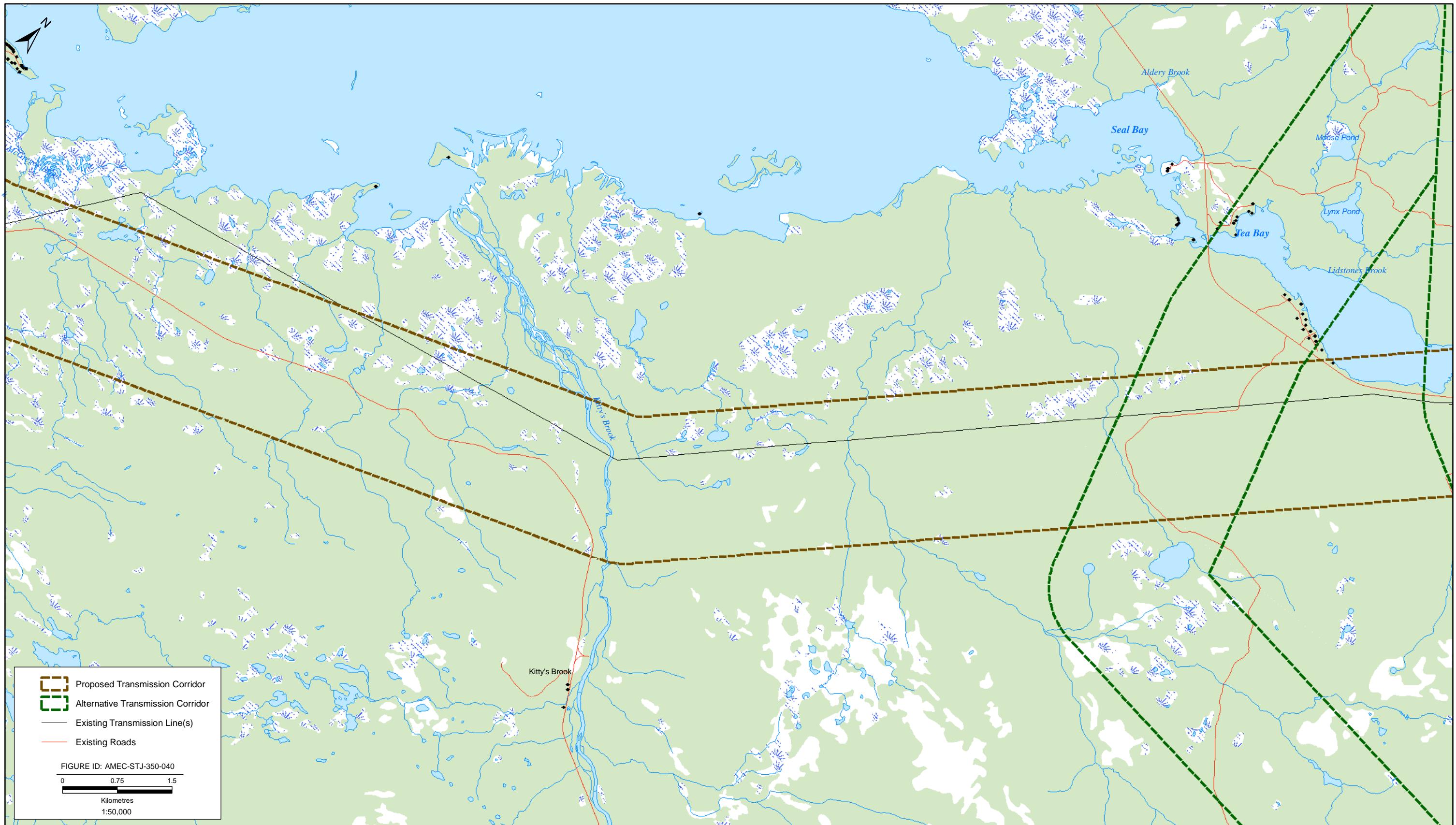


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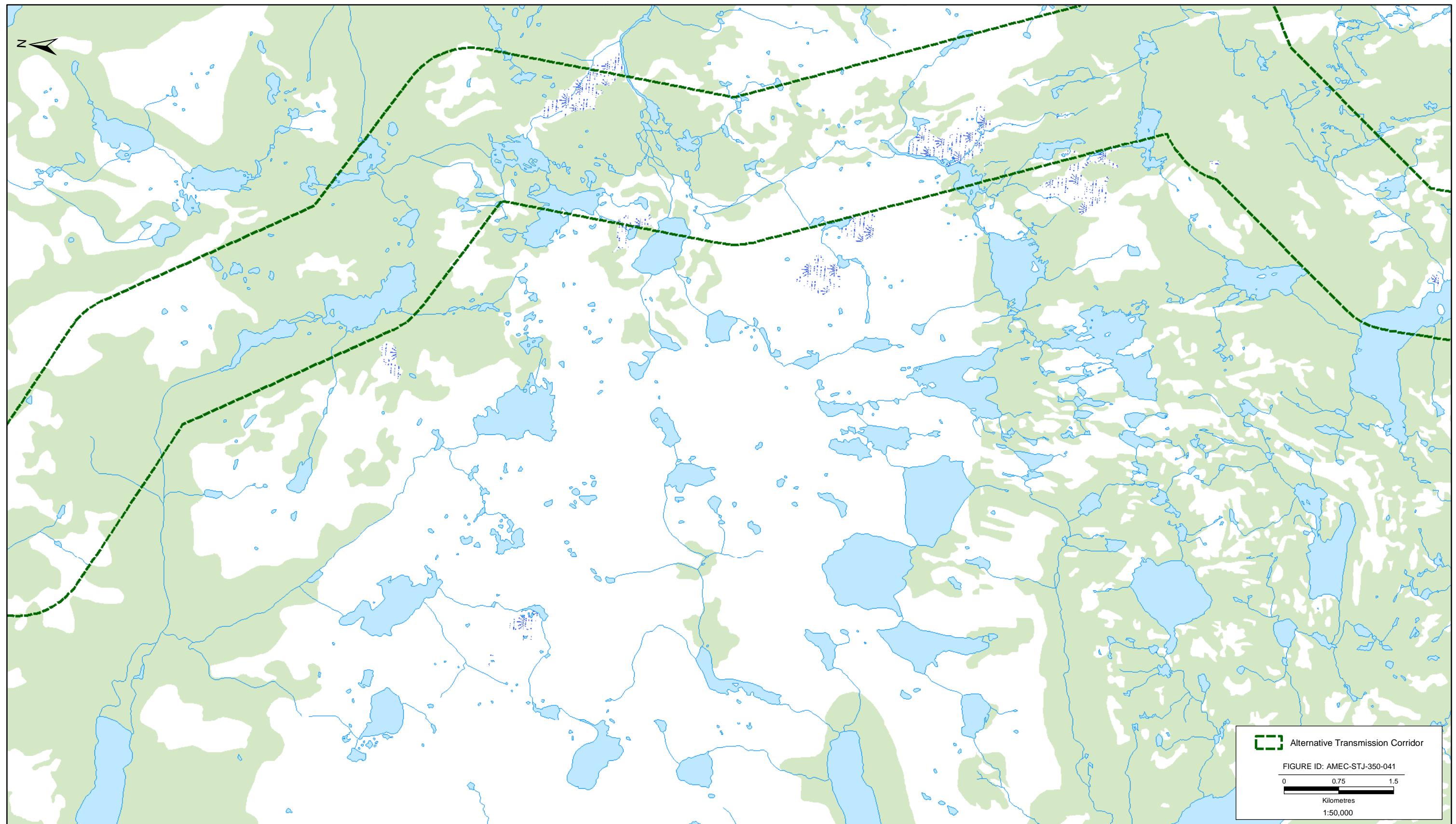


FIGURE 5.41

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #41

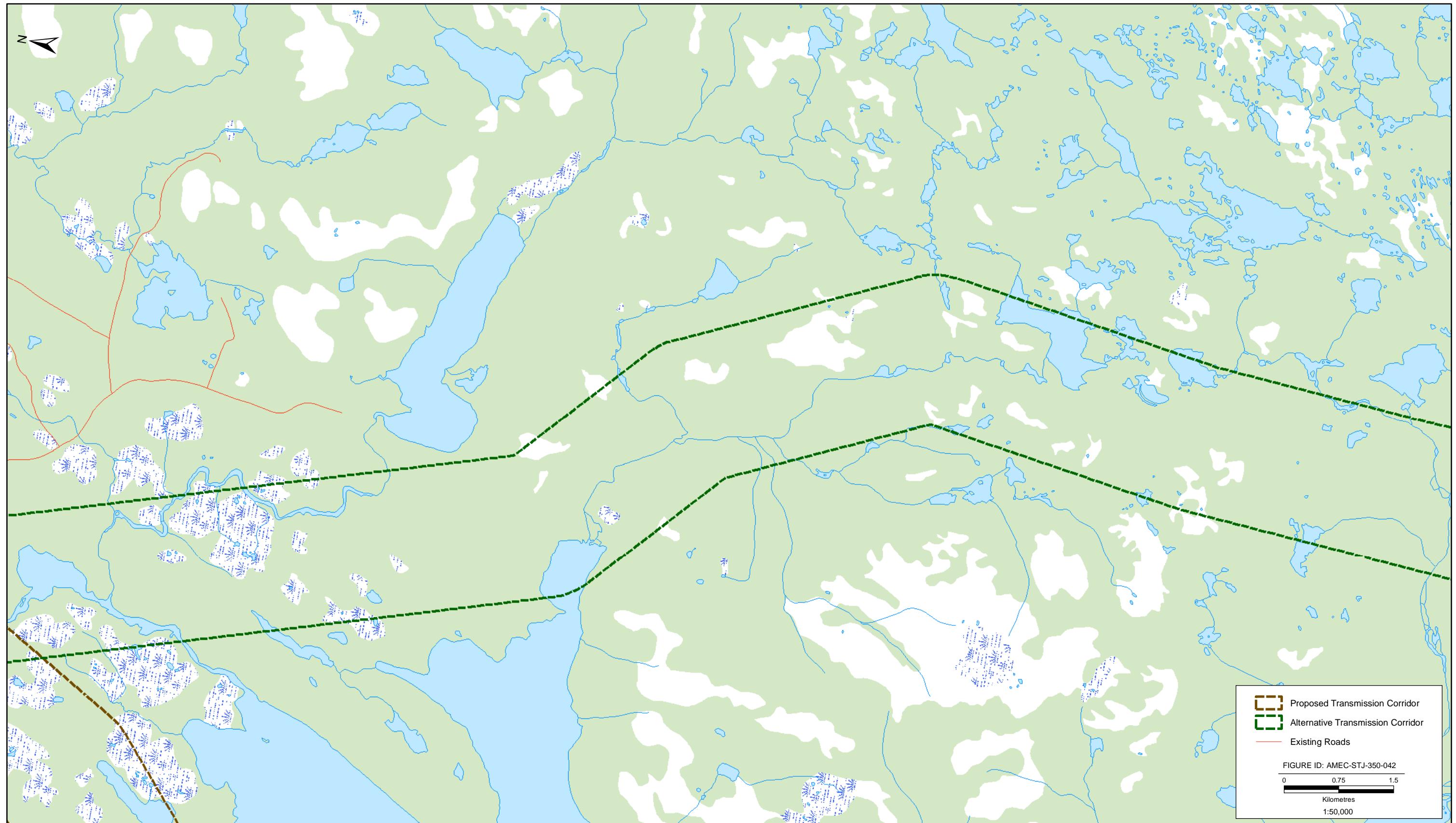


FIGURE 5.42

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #42

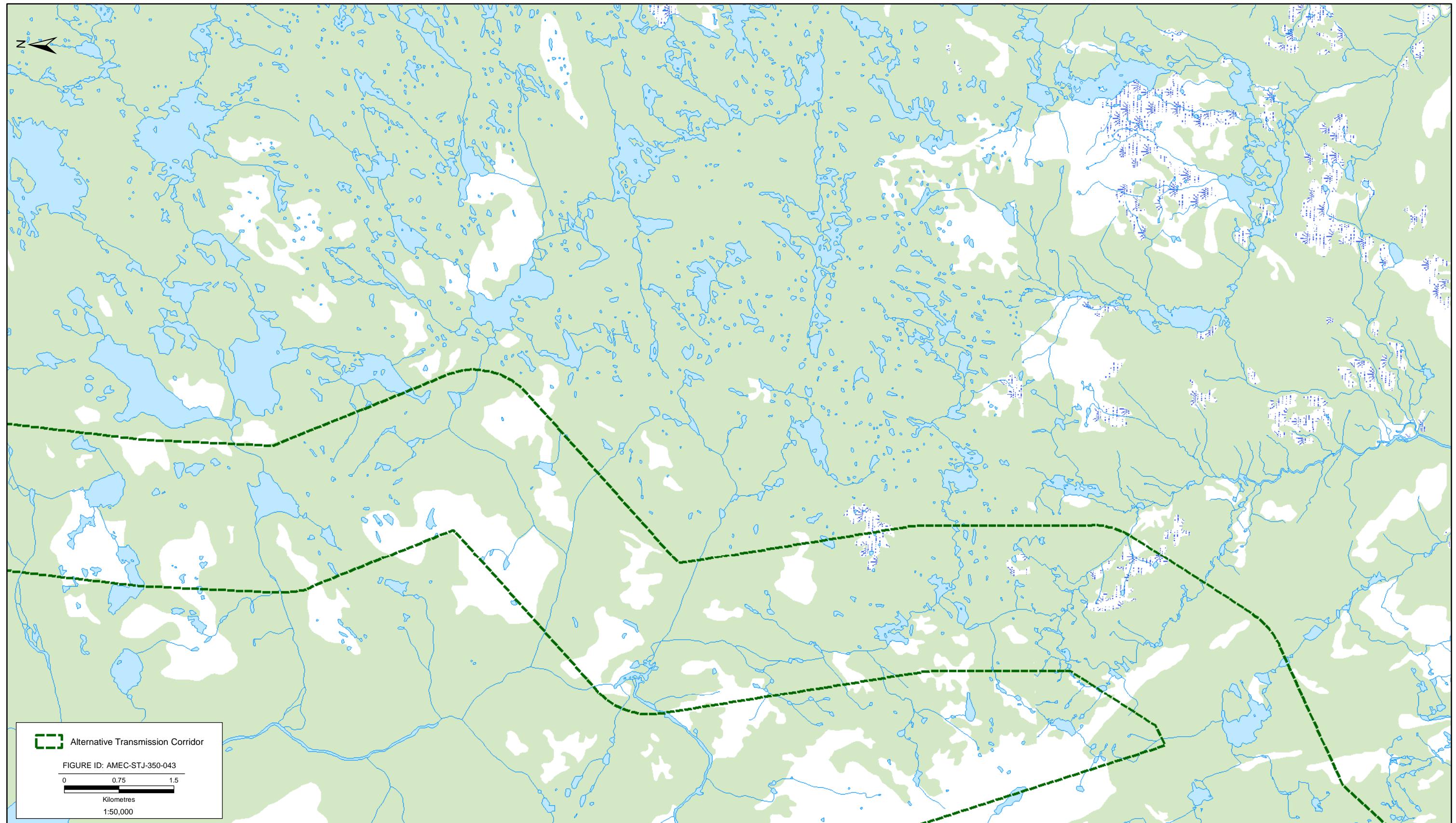


FIGURE 5.43

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #43

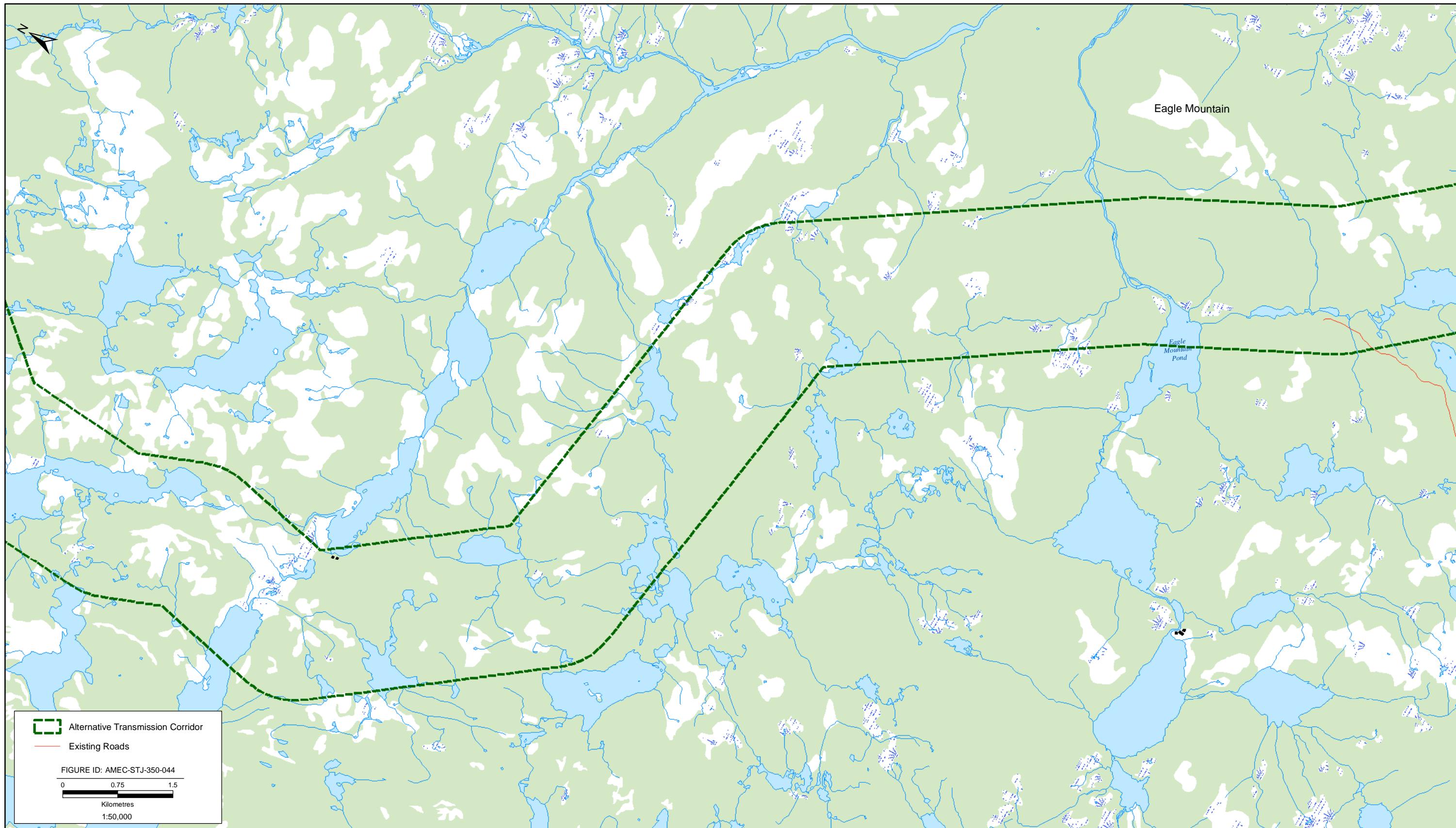
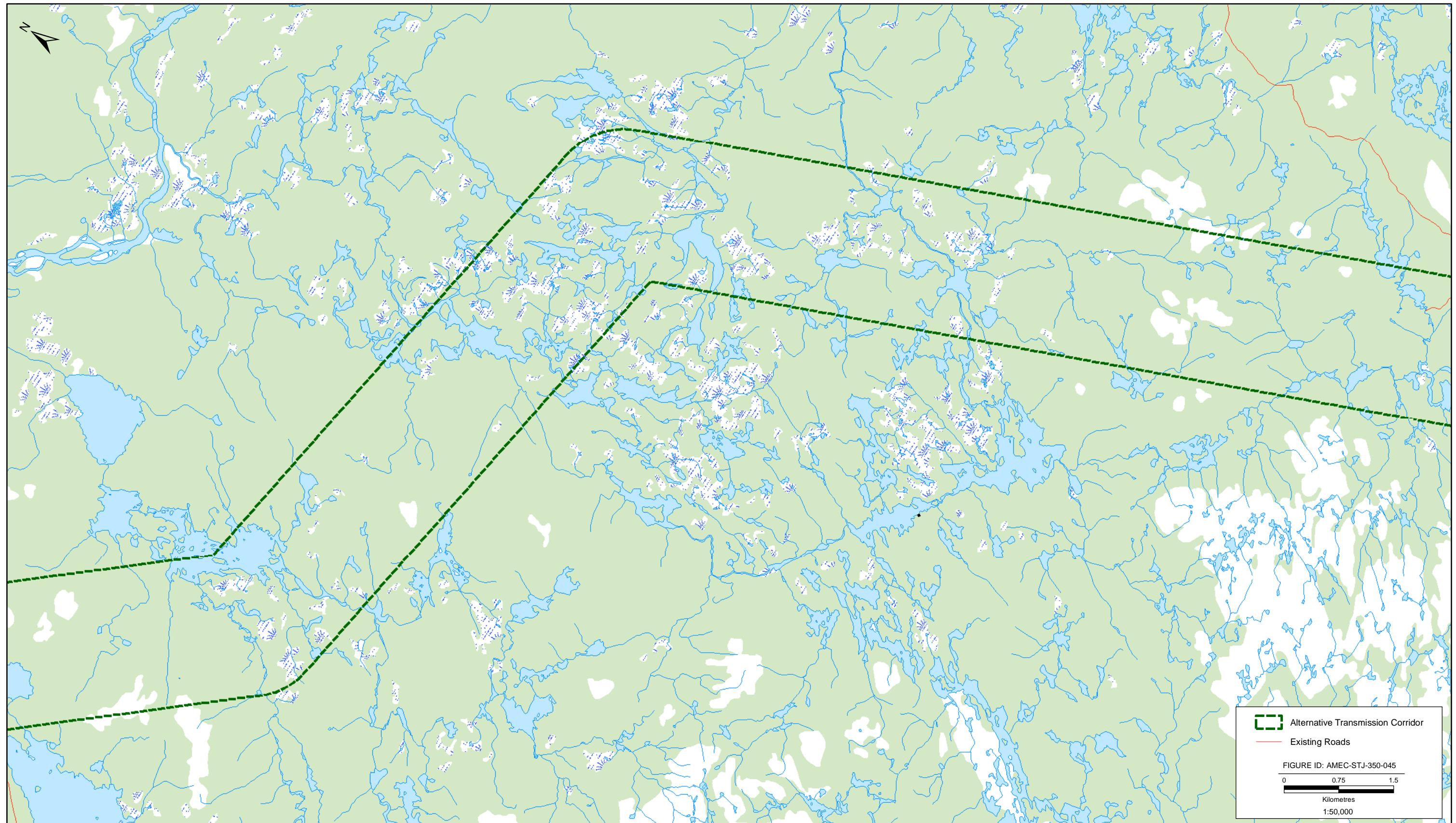


FIGURE 5.44

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #44



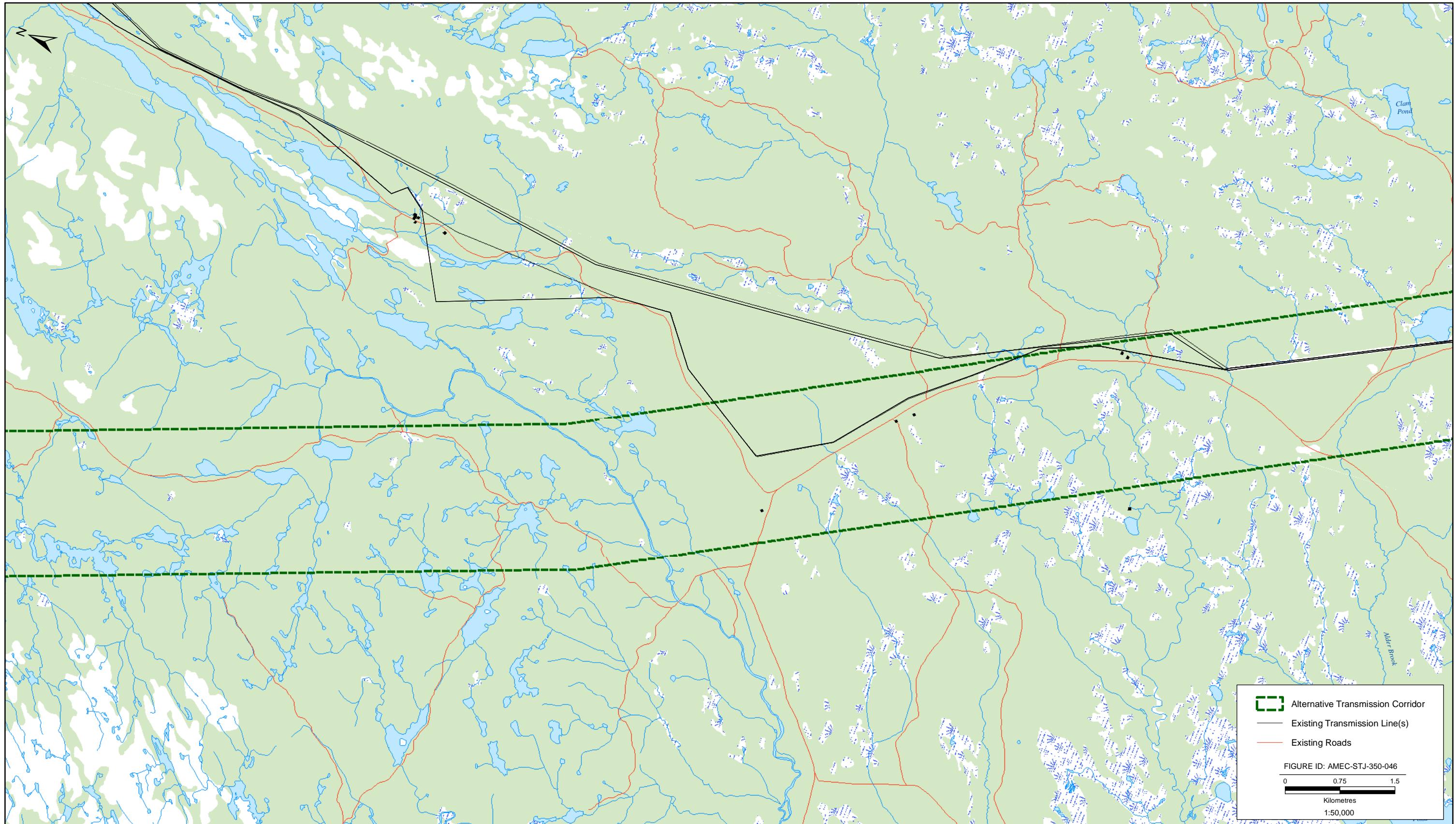


FIGURE 5.46

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #46

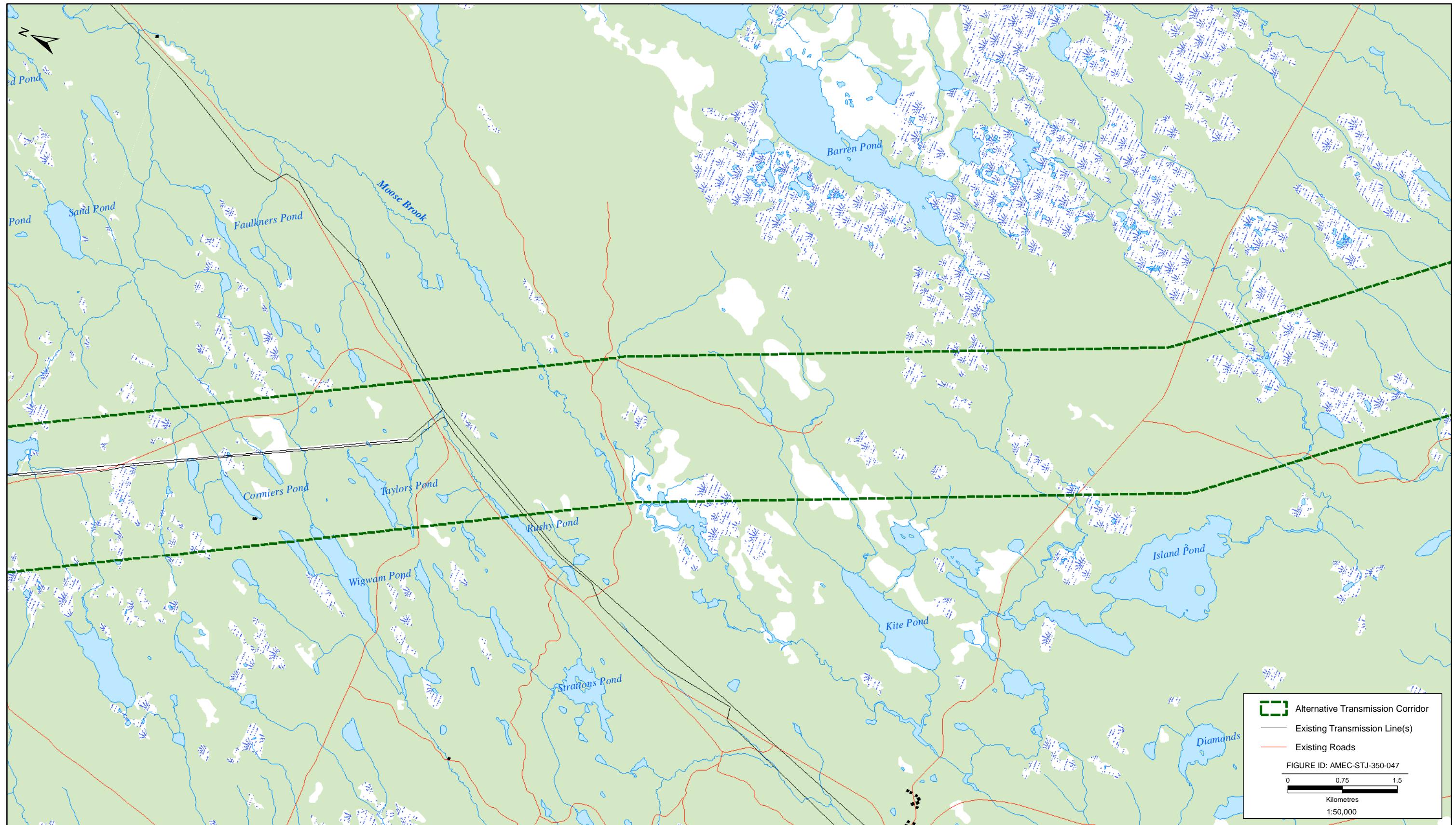


FIGURE 5.47

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #47

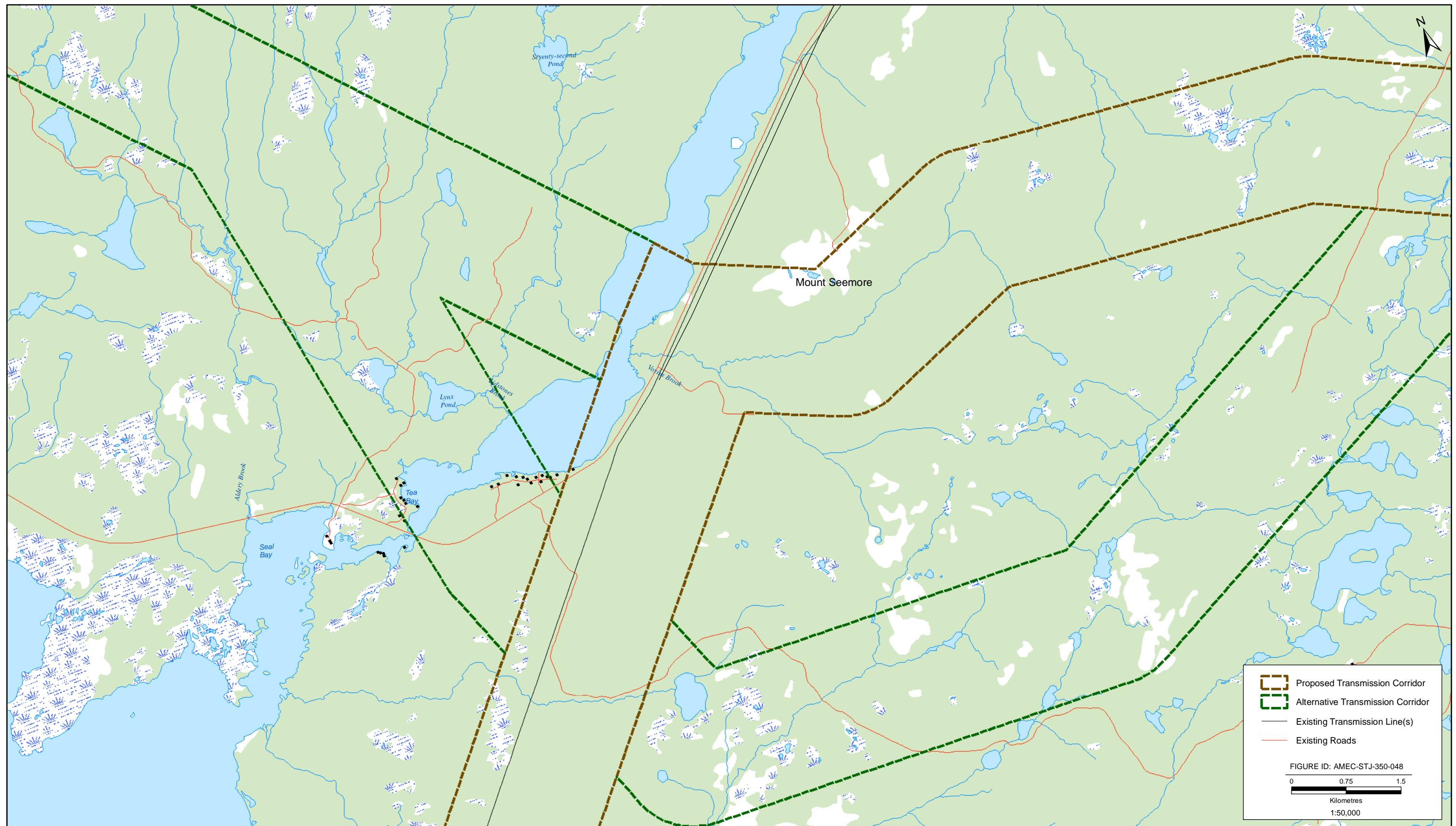
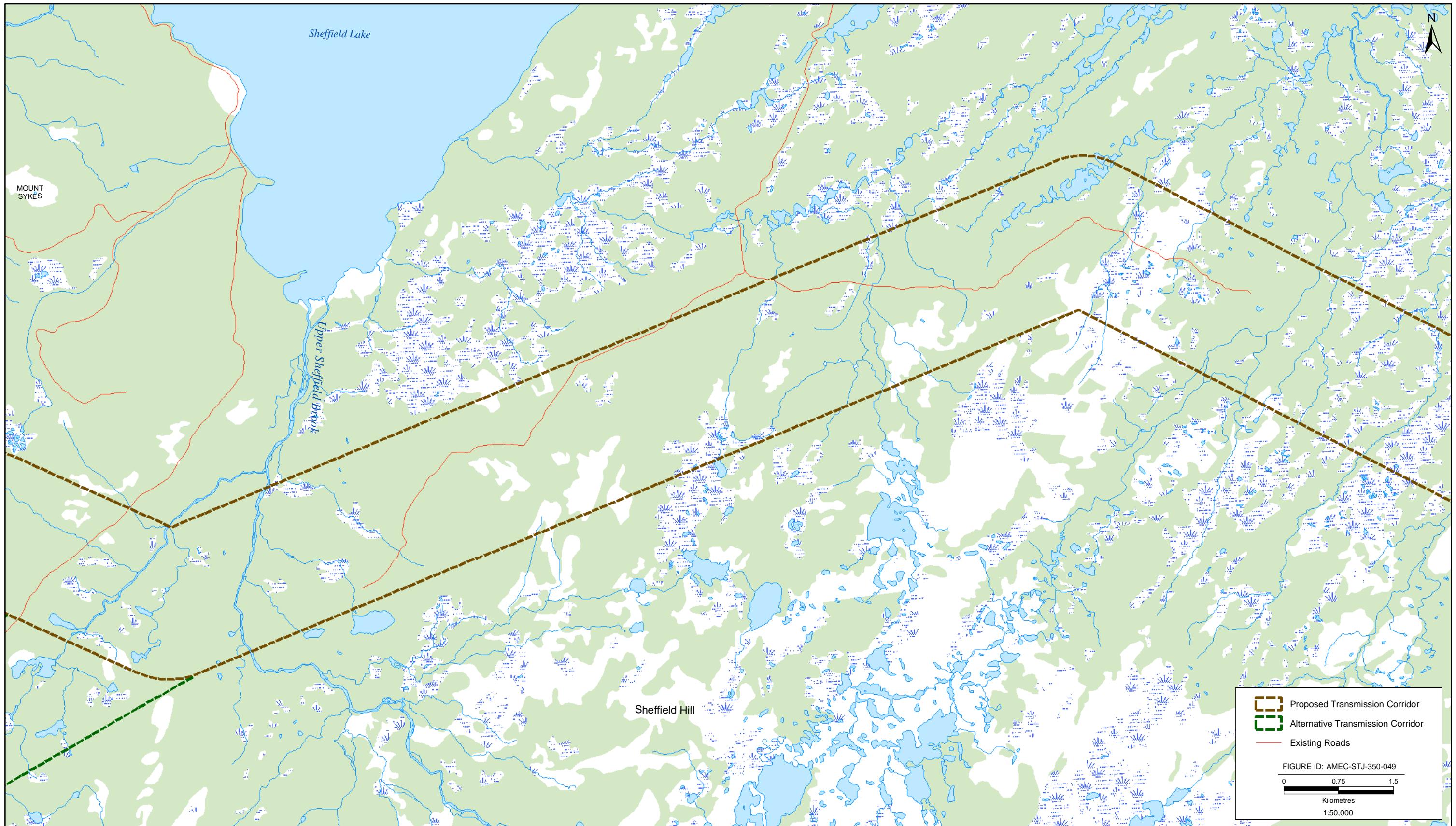
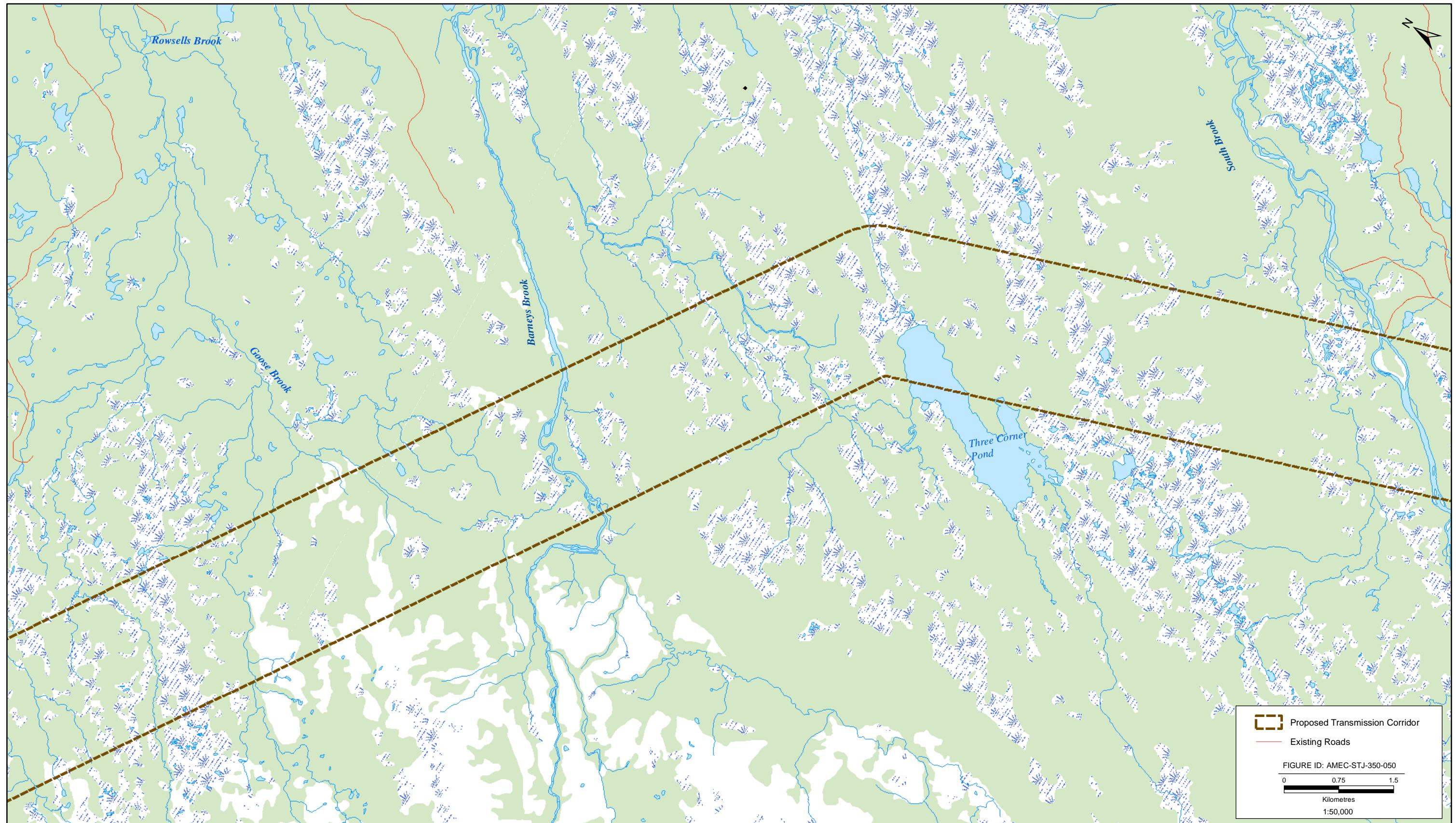
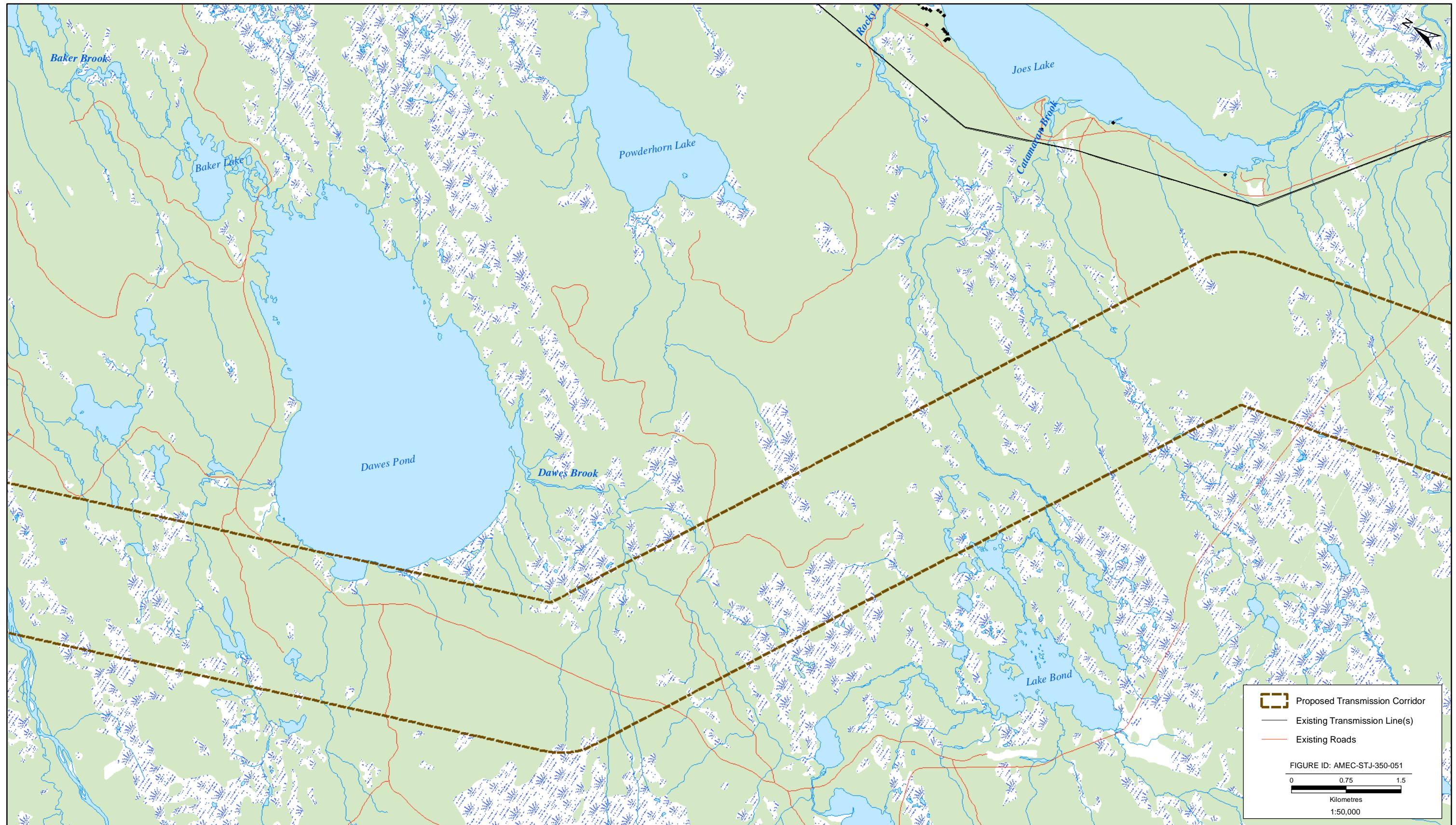


FIGURE 5.48

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - # 48







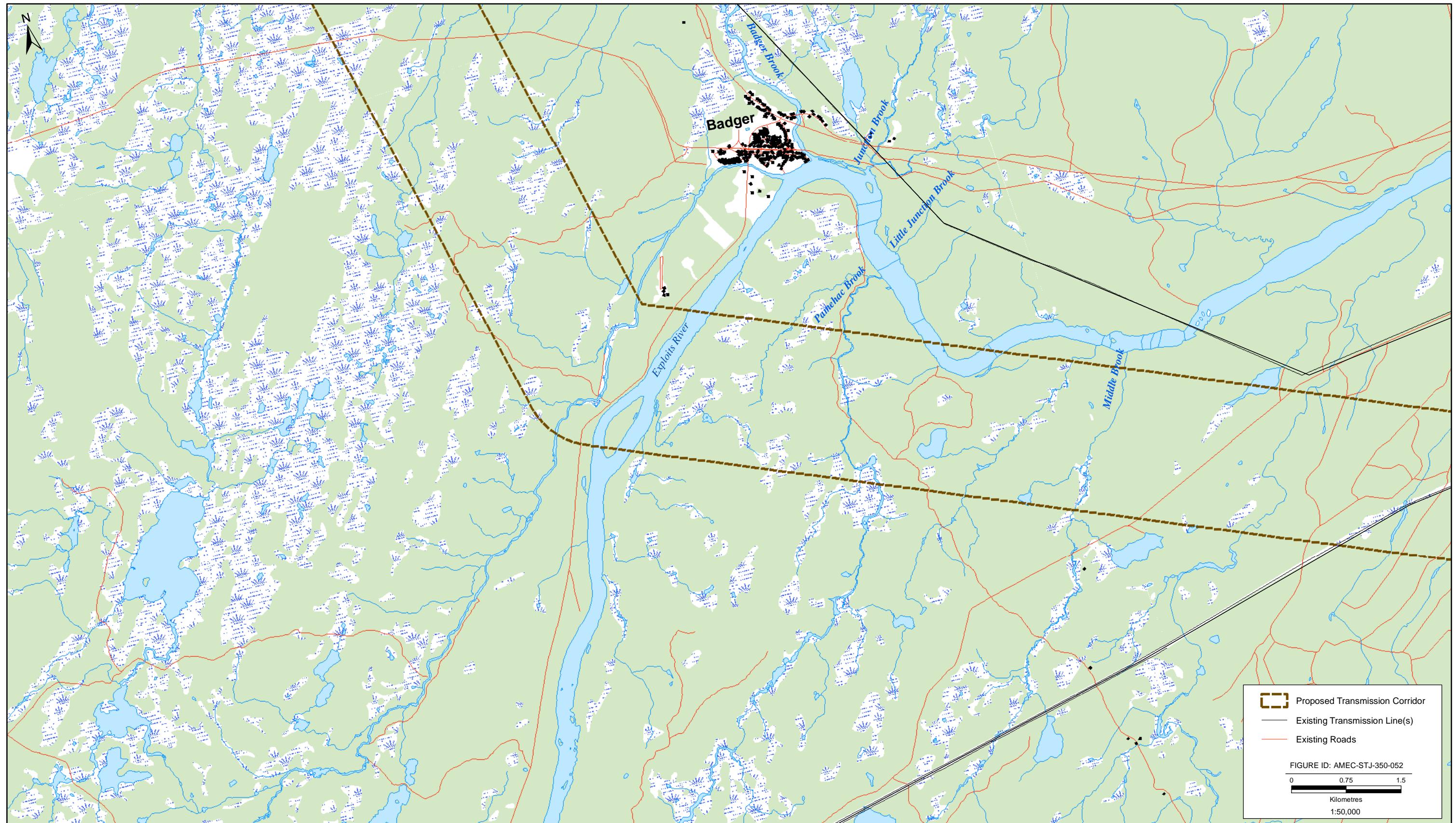
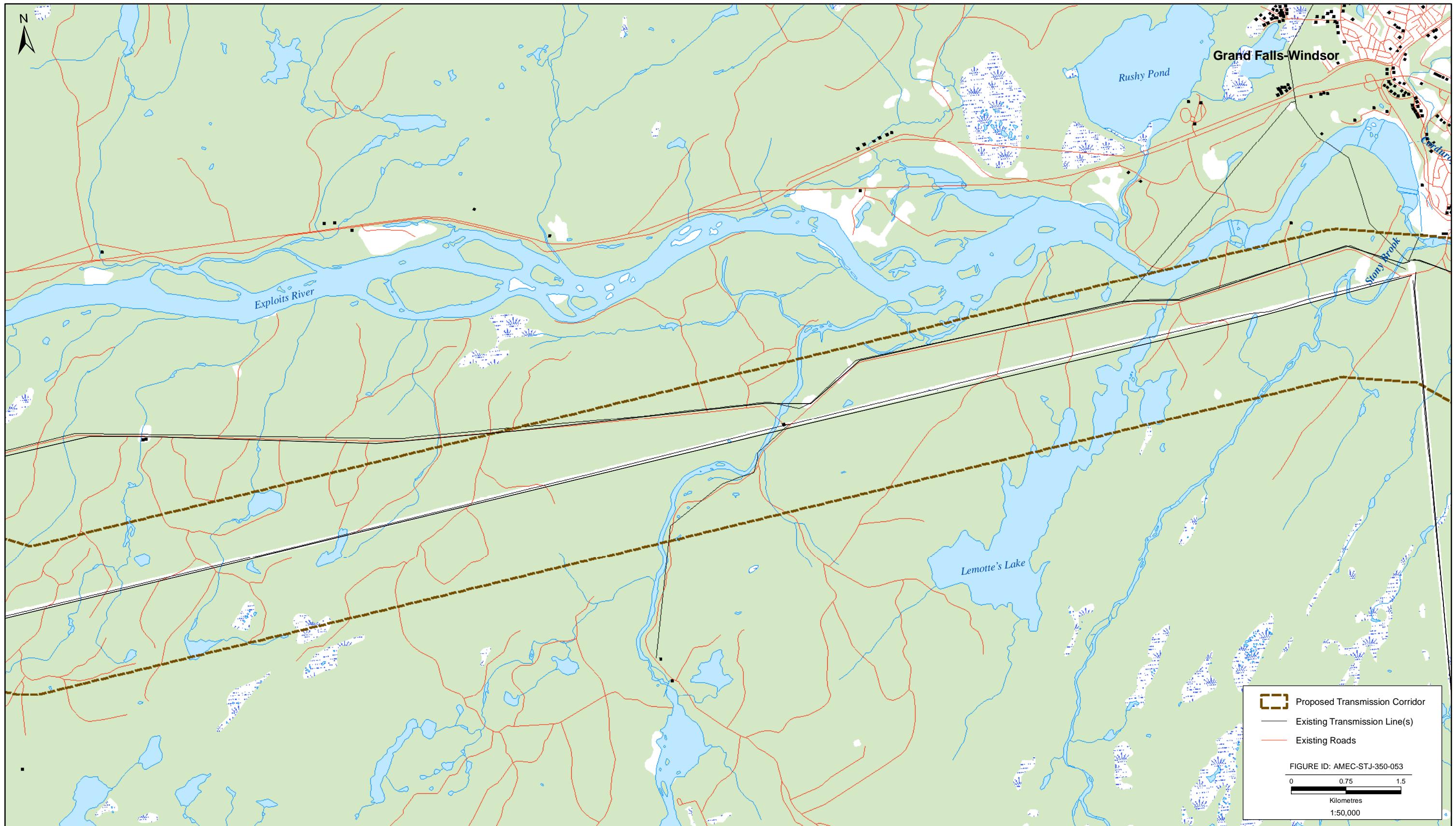


FIGURE 5.52

Labrador - Island Transmission Link: Strait of Belle Isle to Central Newfoundland - #52



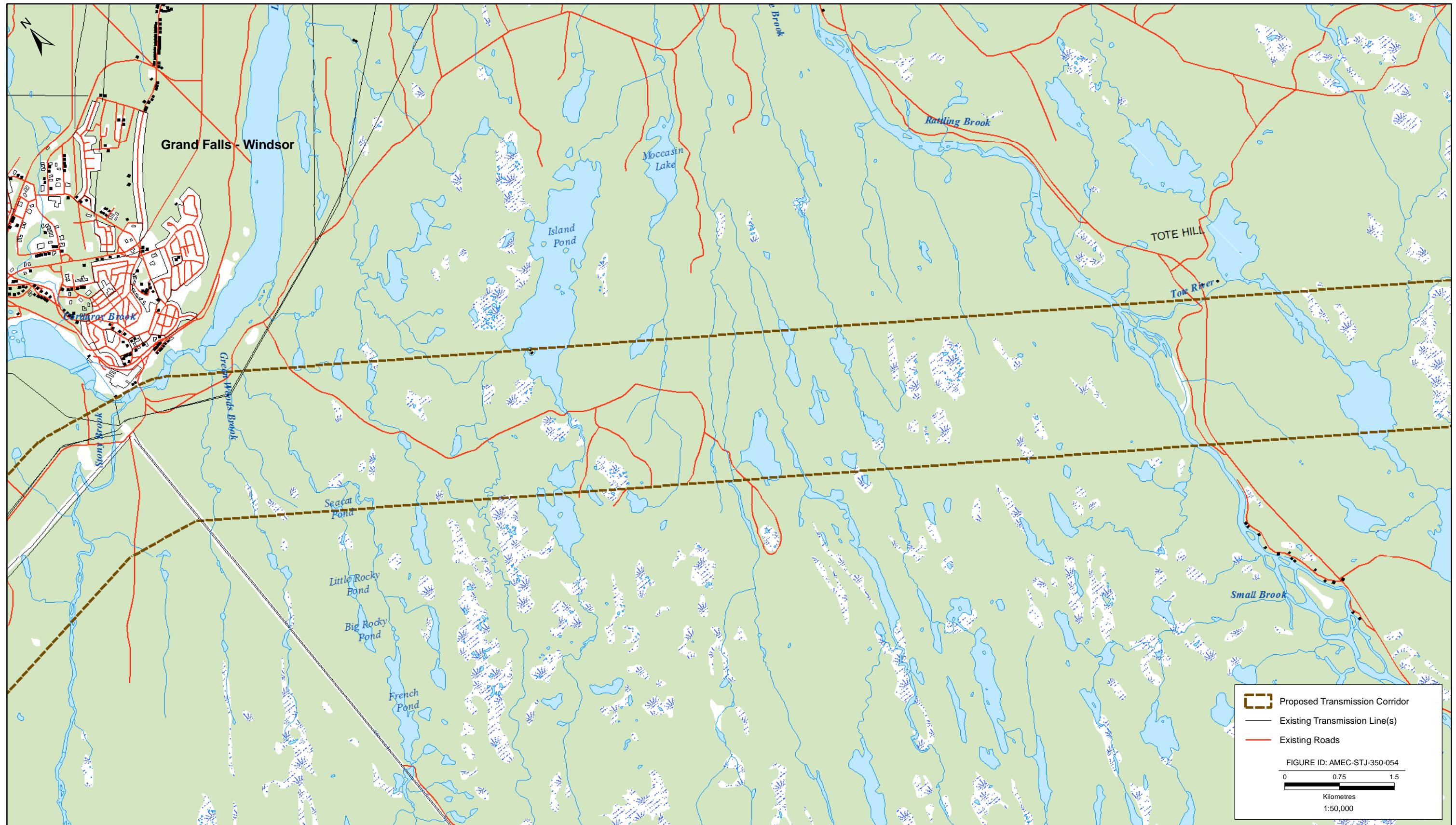
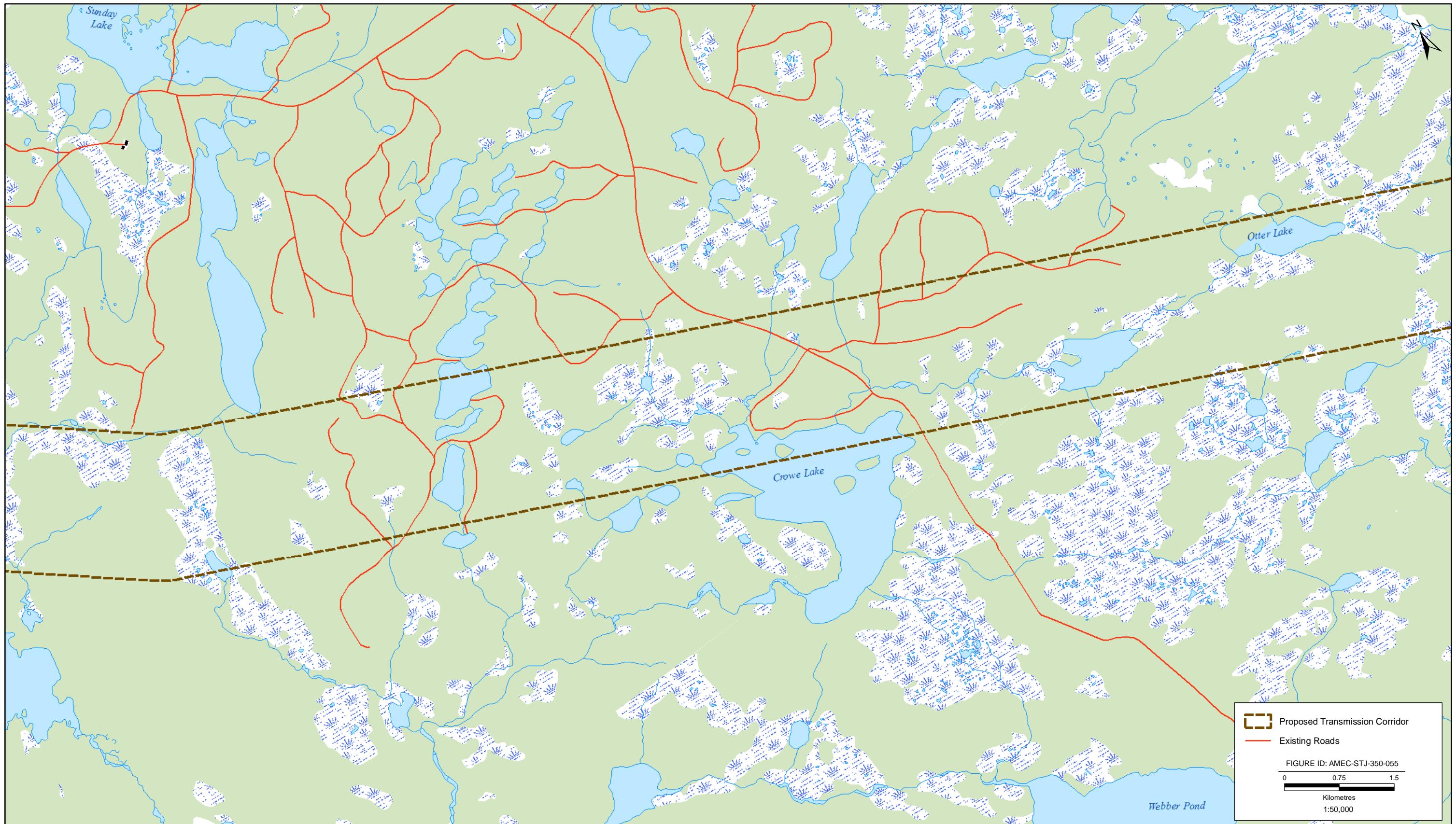
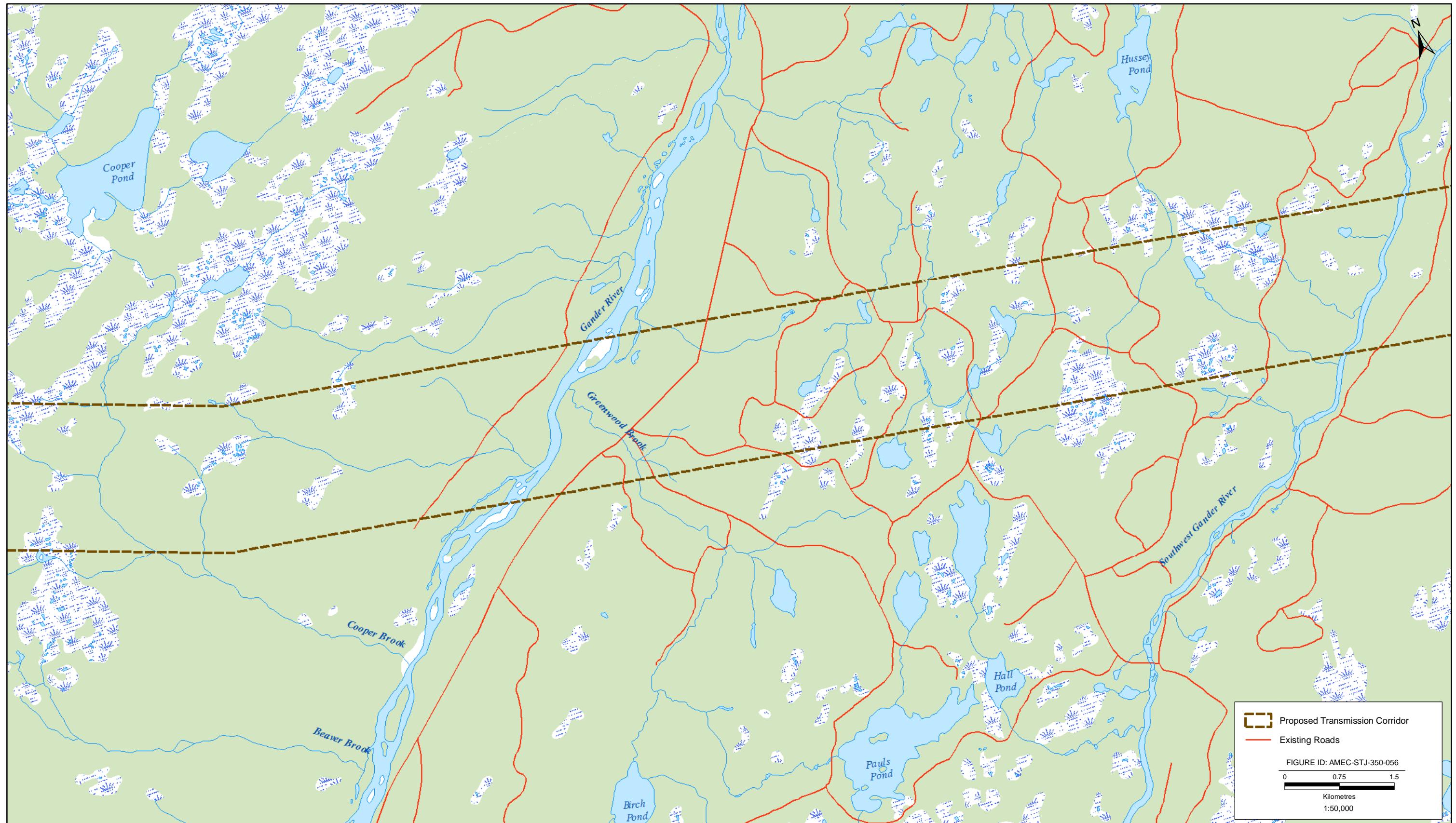
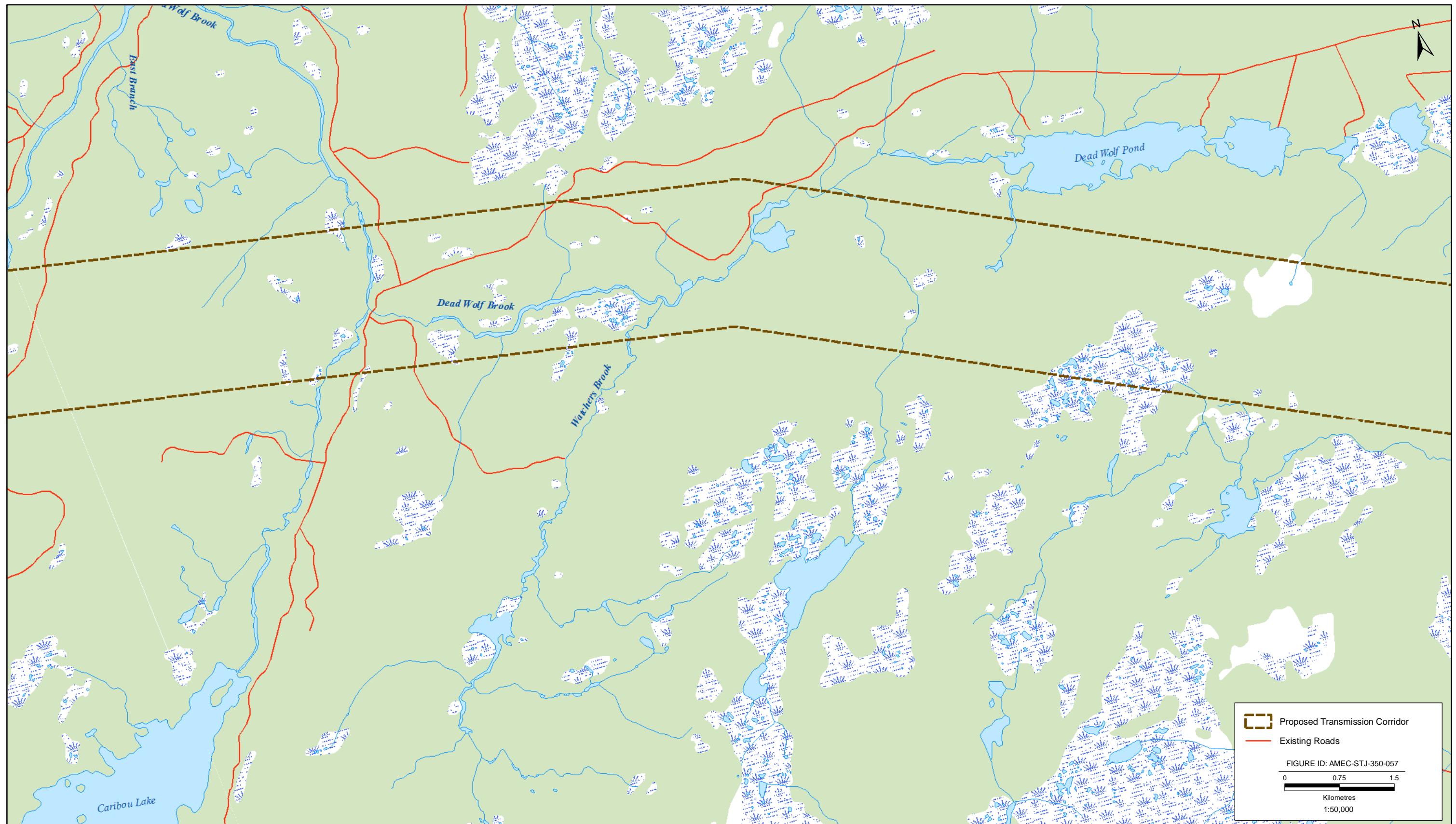


FIGURE 5.54

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 54







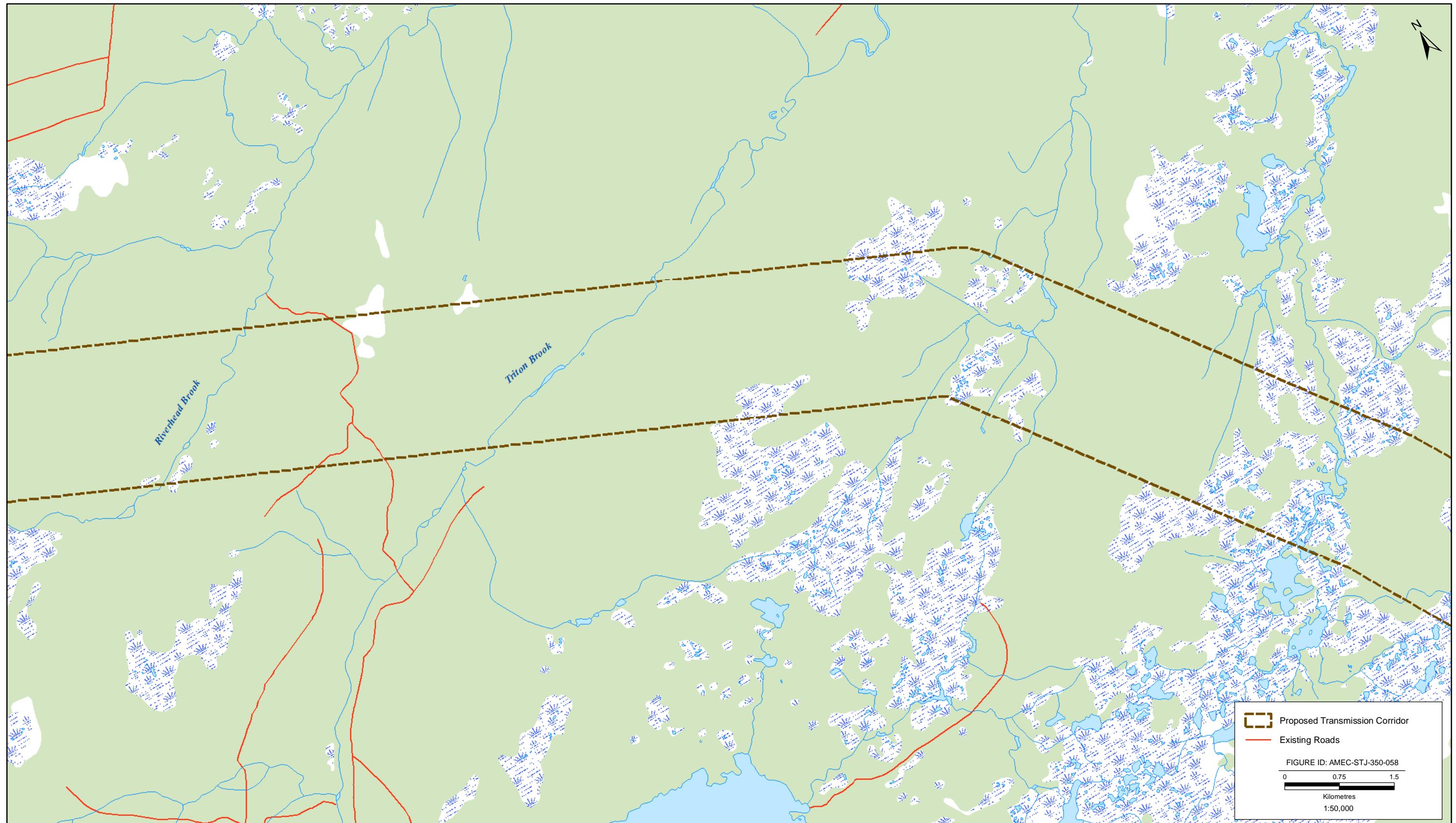


FIGURE 5.58

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 58

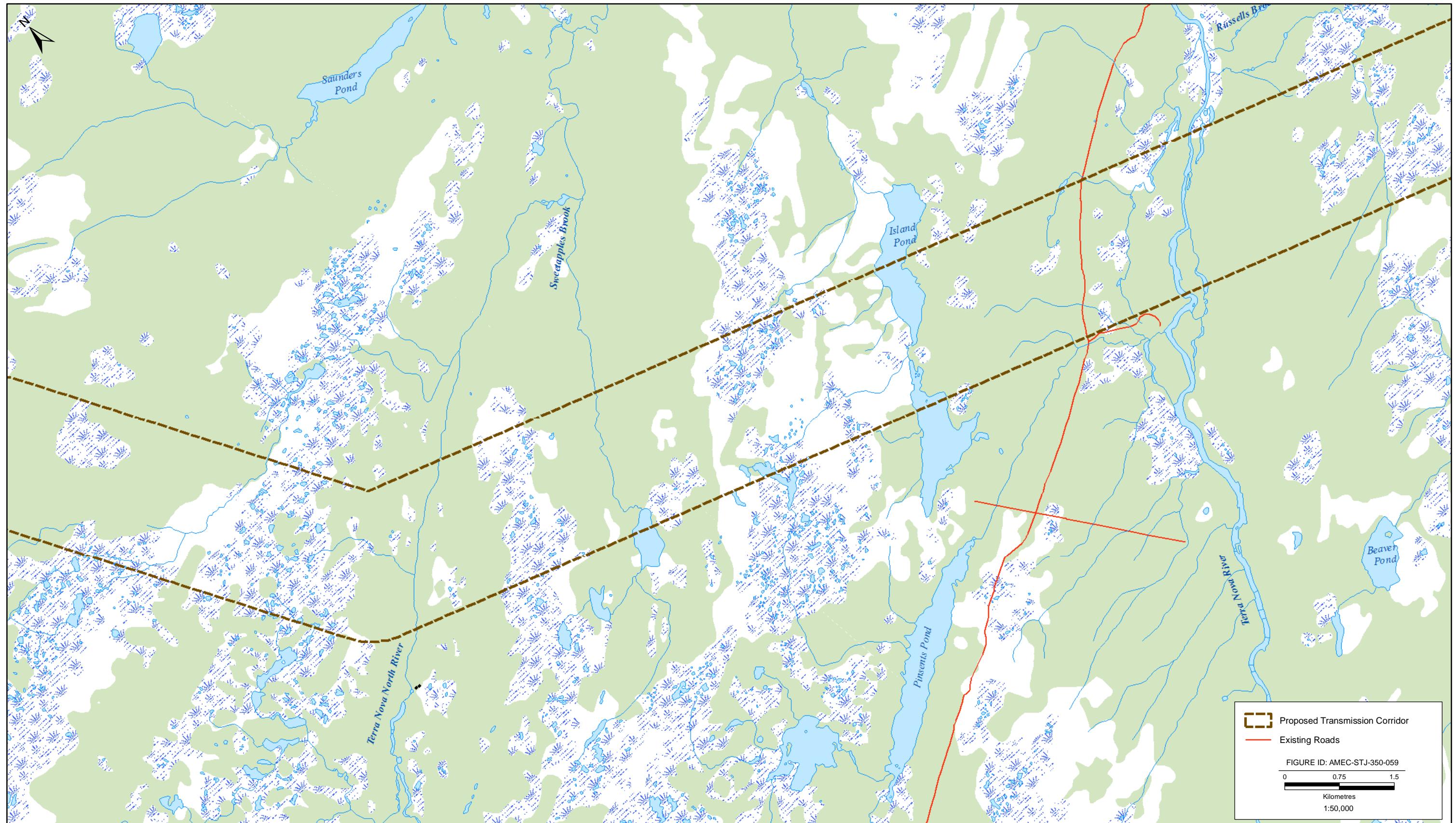


FIGURE 5.59

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 59

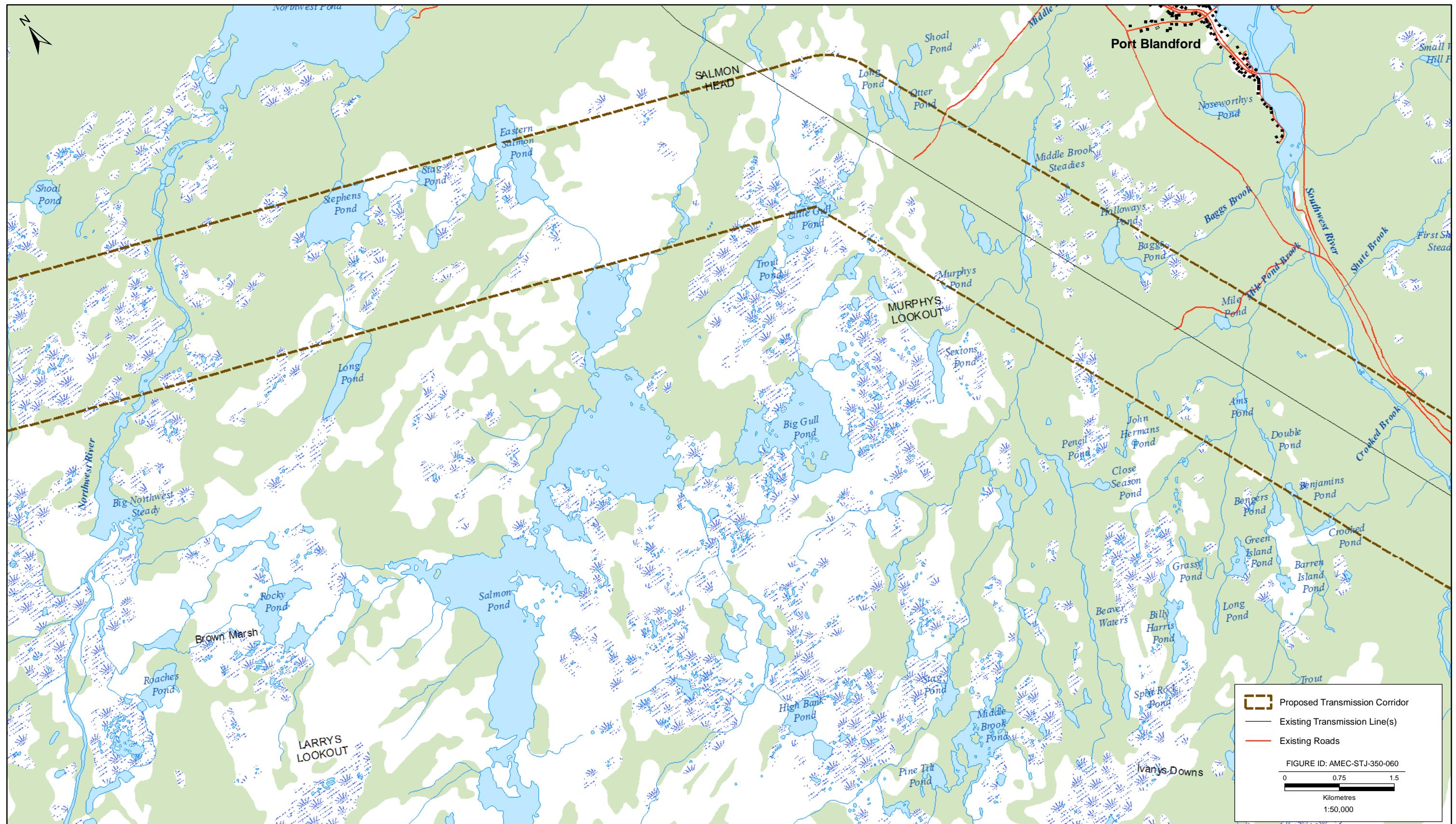


FIGURE 5.60

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 60

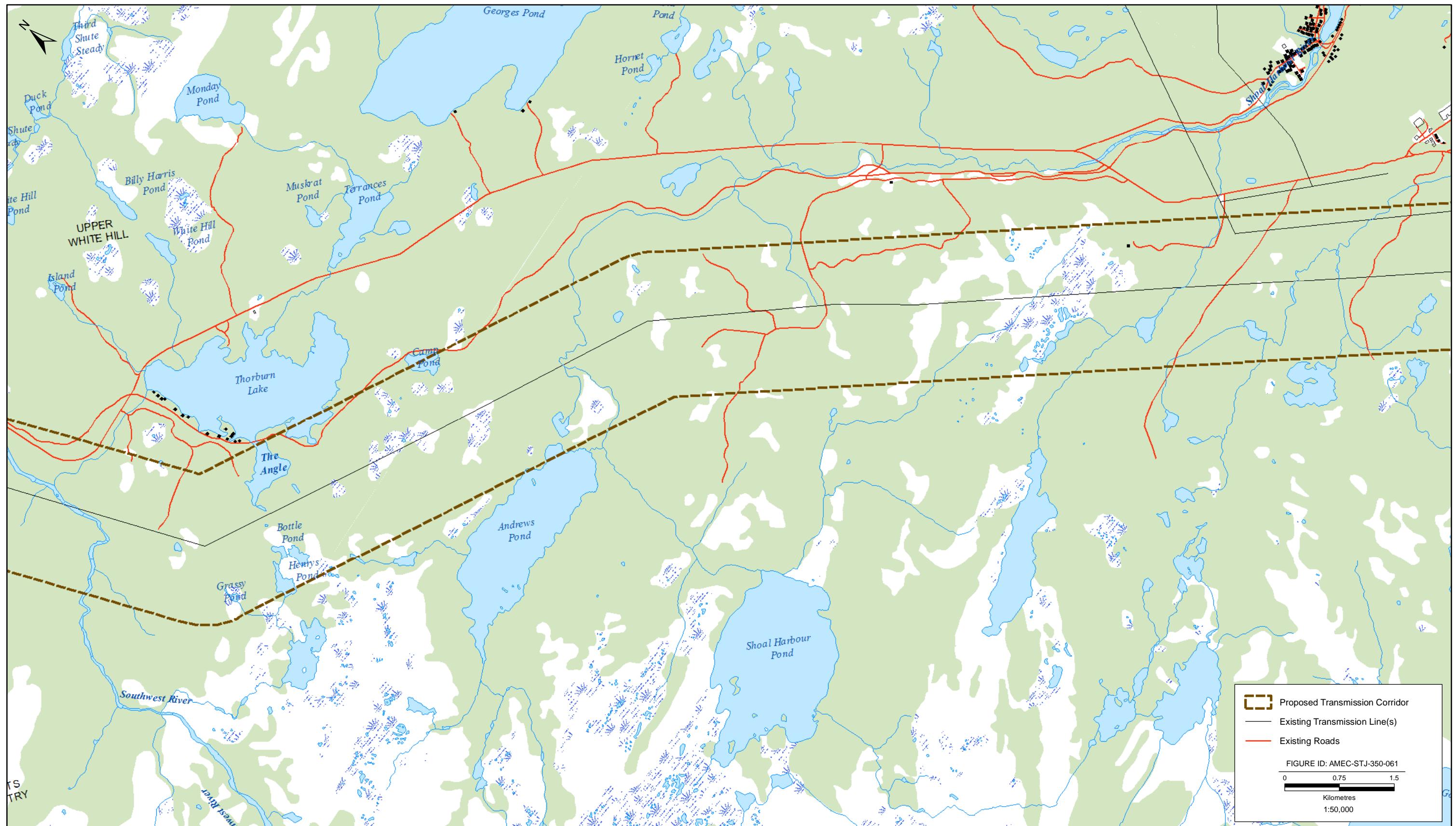
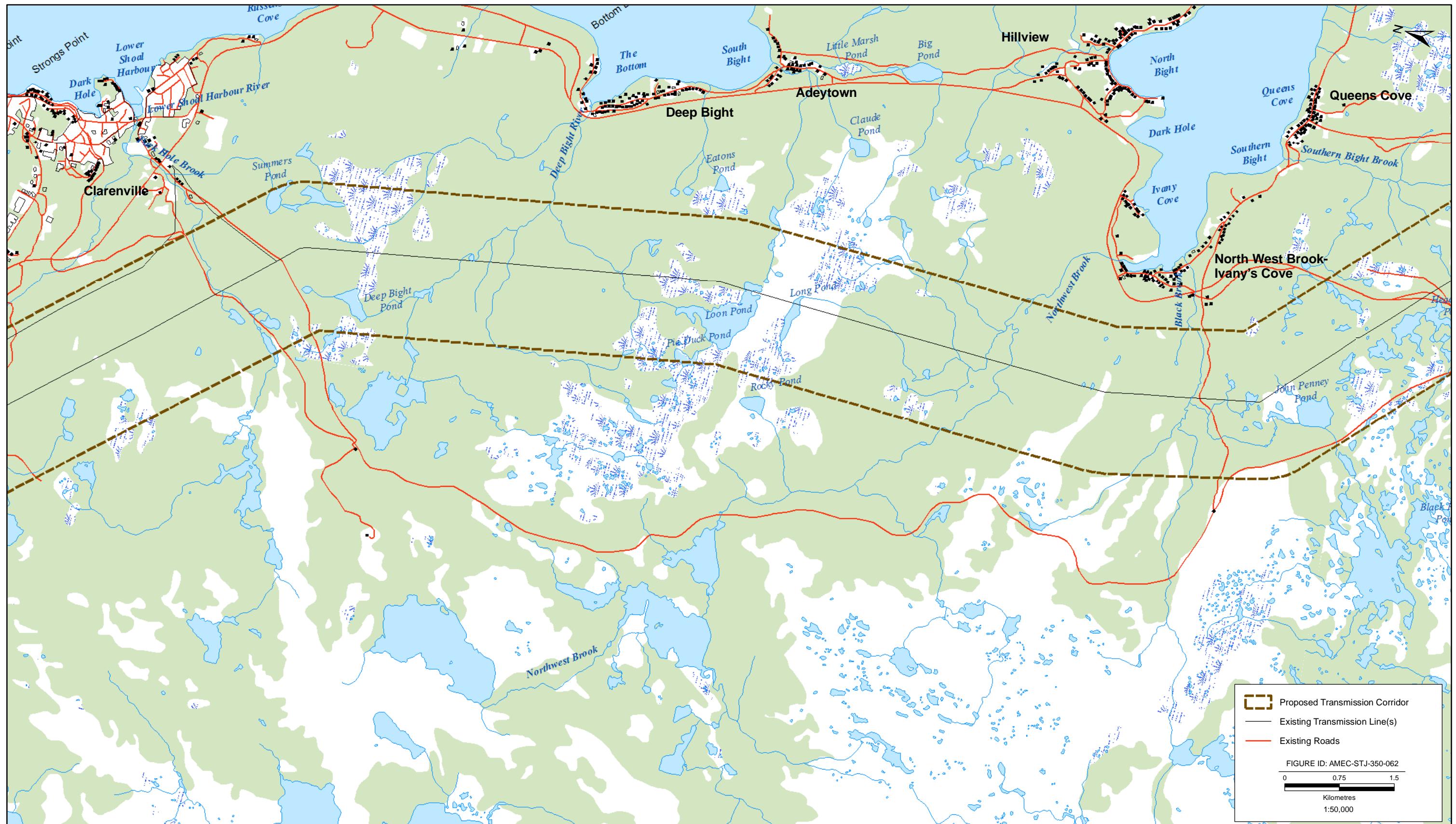


FIGURE 5.61

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 61



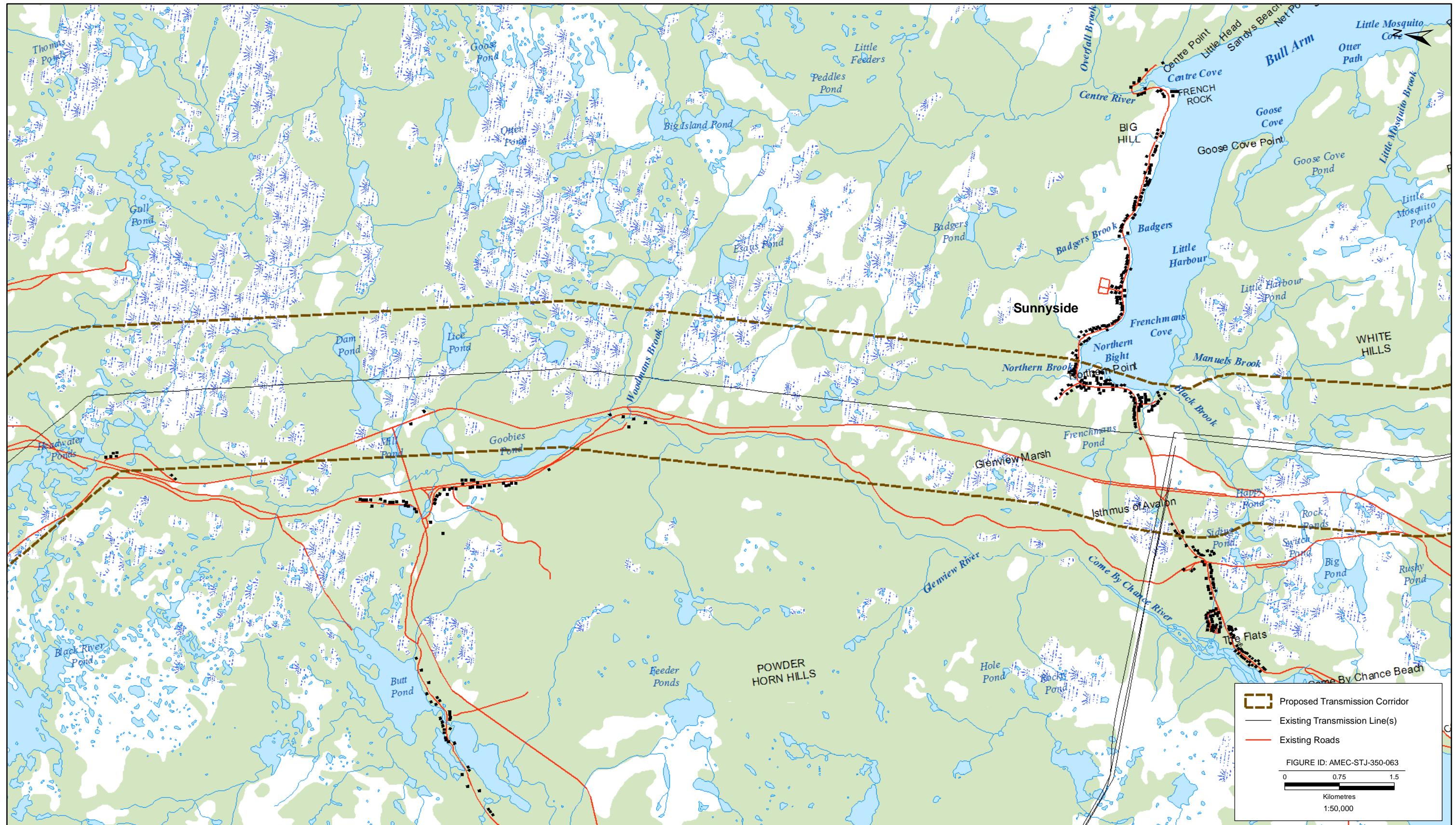
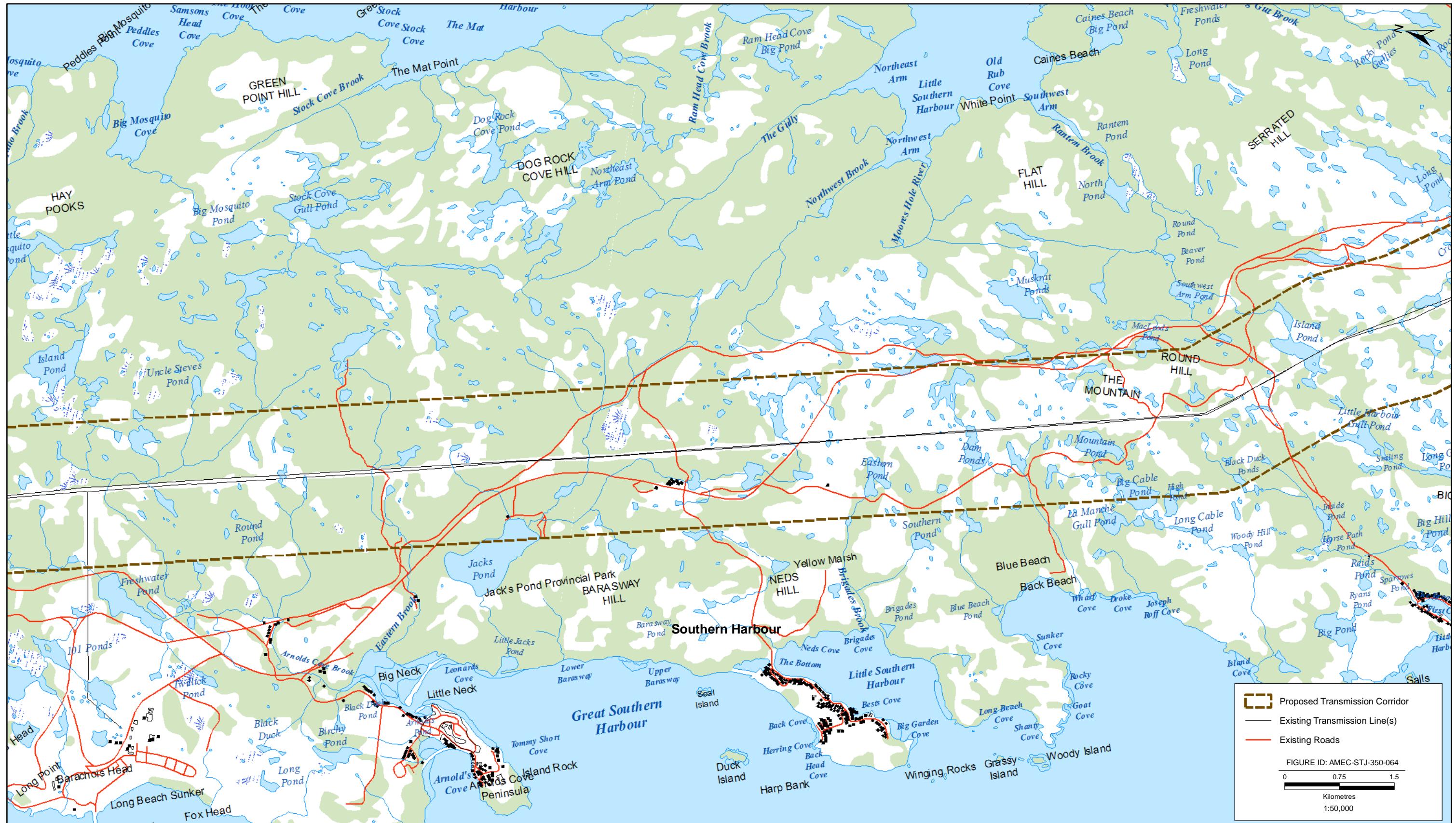
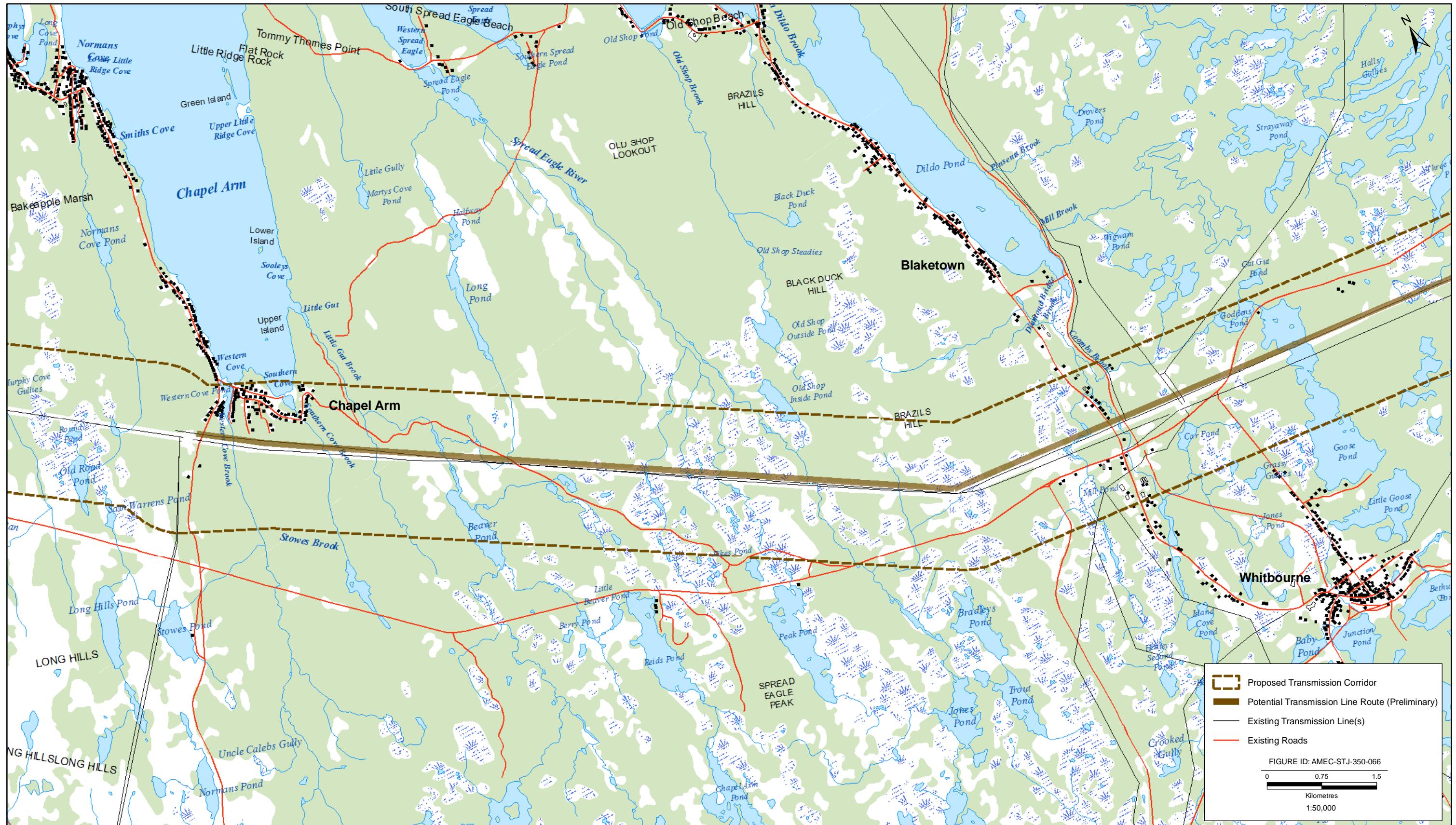


FIGURE 5.63

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 63







Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 66

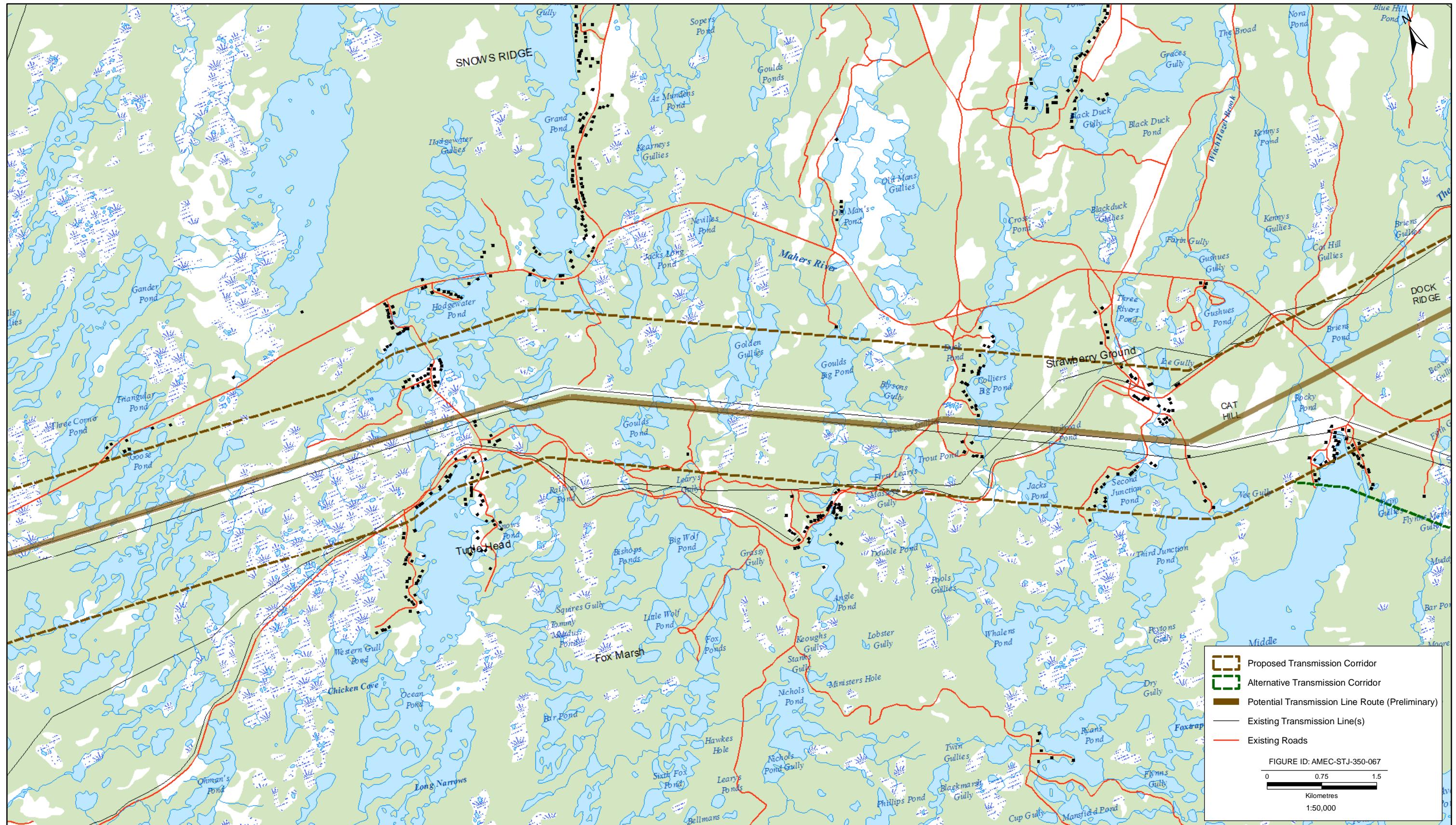


FIGURE 5.67

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 67

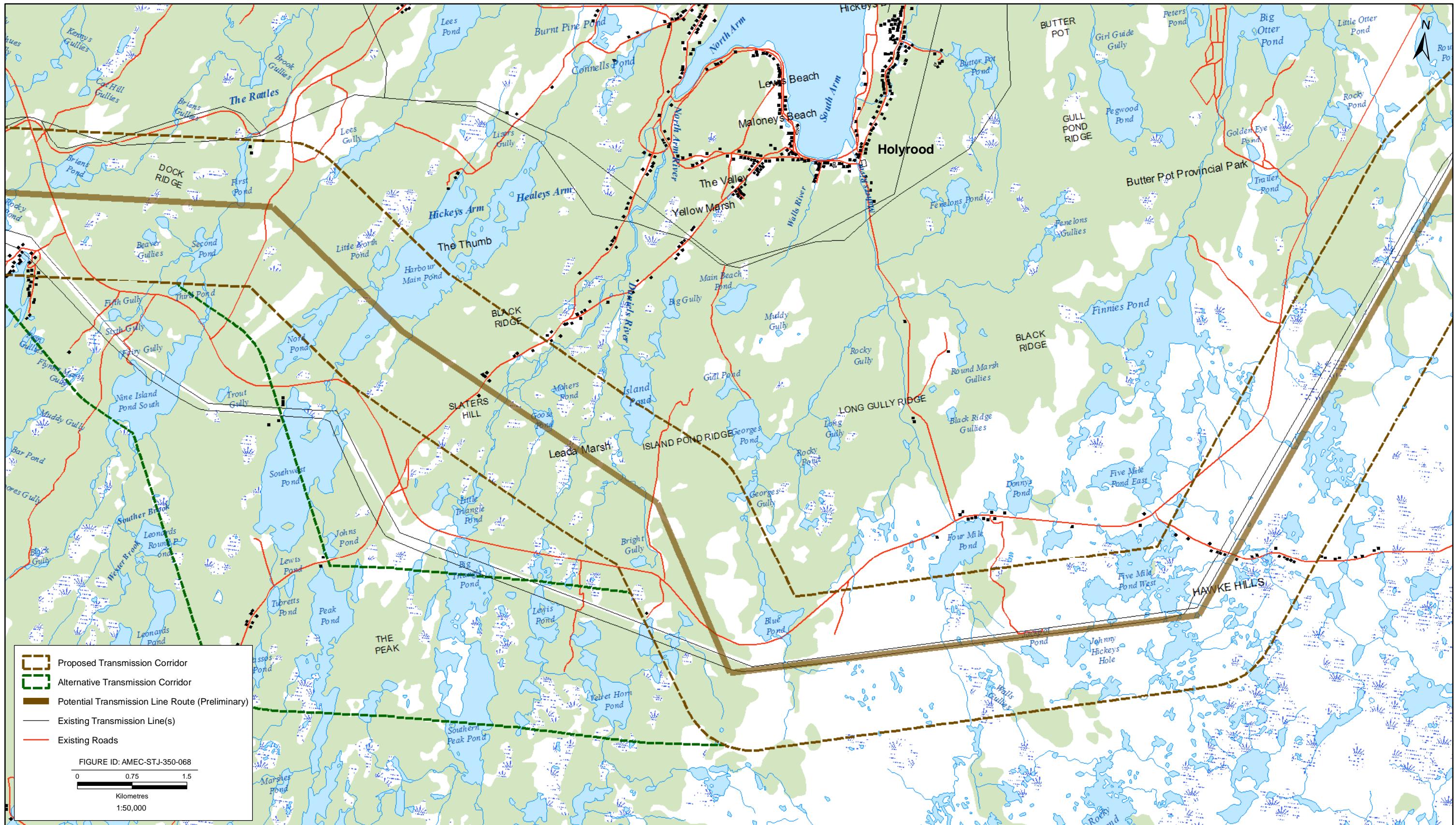


FIGURE 5.68

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 68

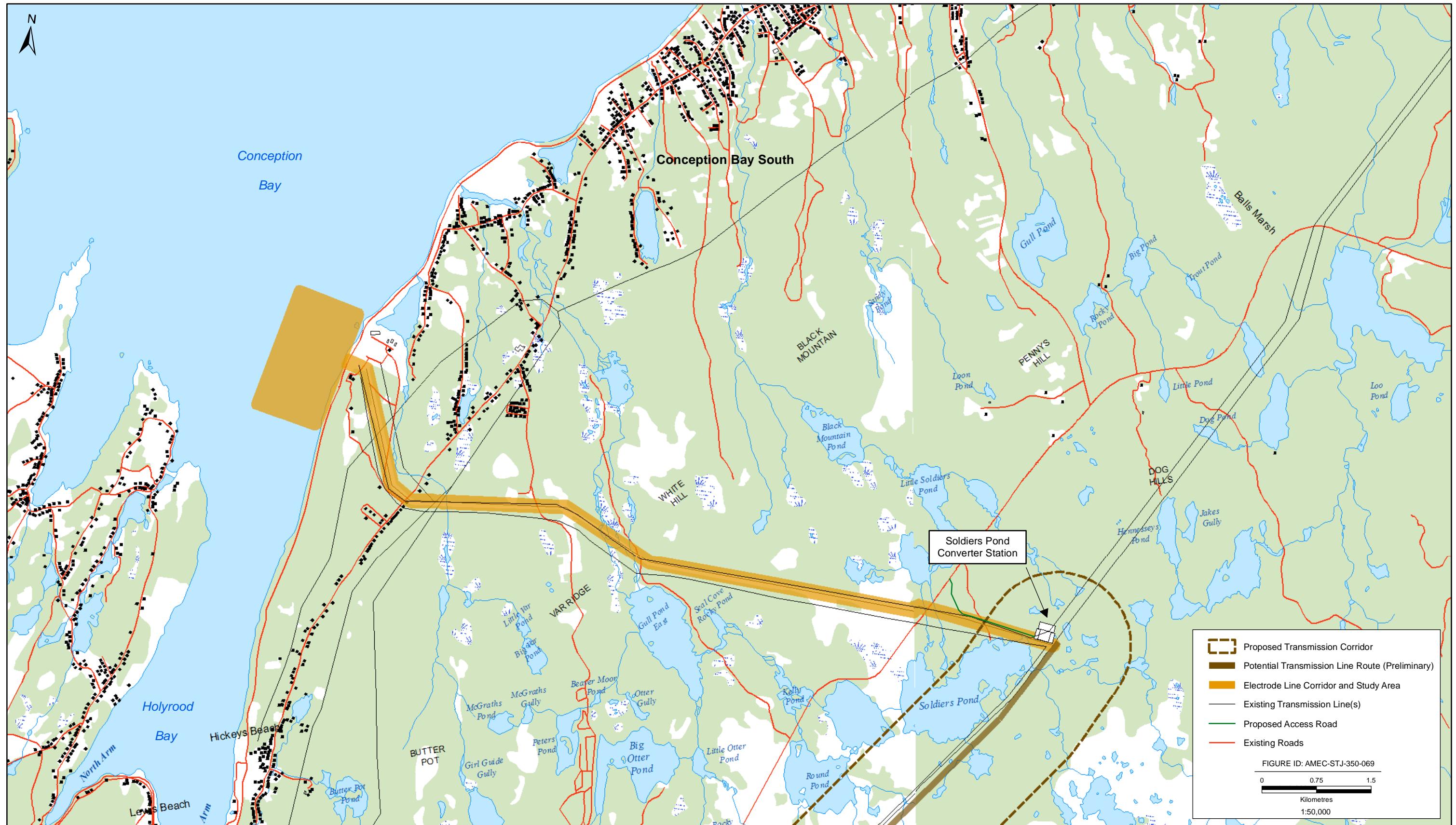


FIGURE 5.69

Labrador - Island Transmission Link: Central Newfoundland to Soldiers Pond - # 69

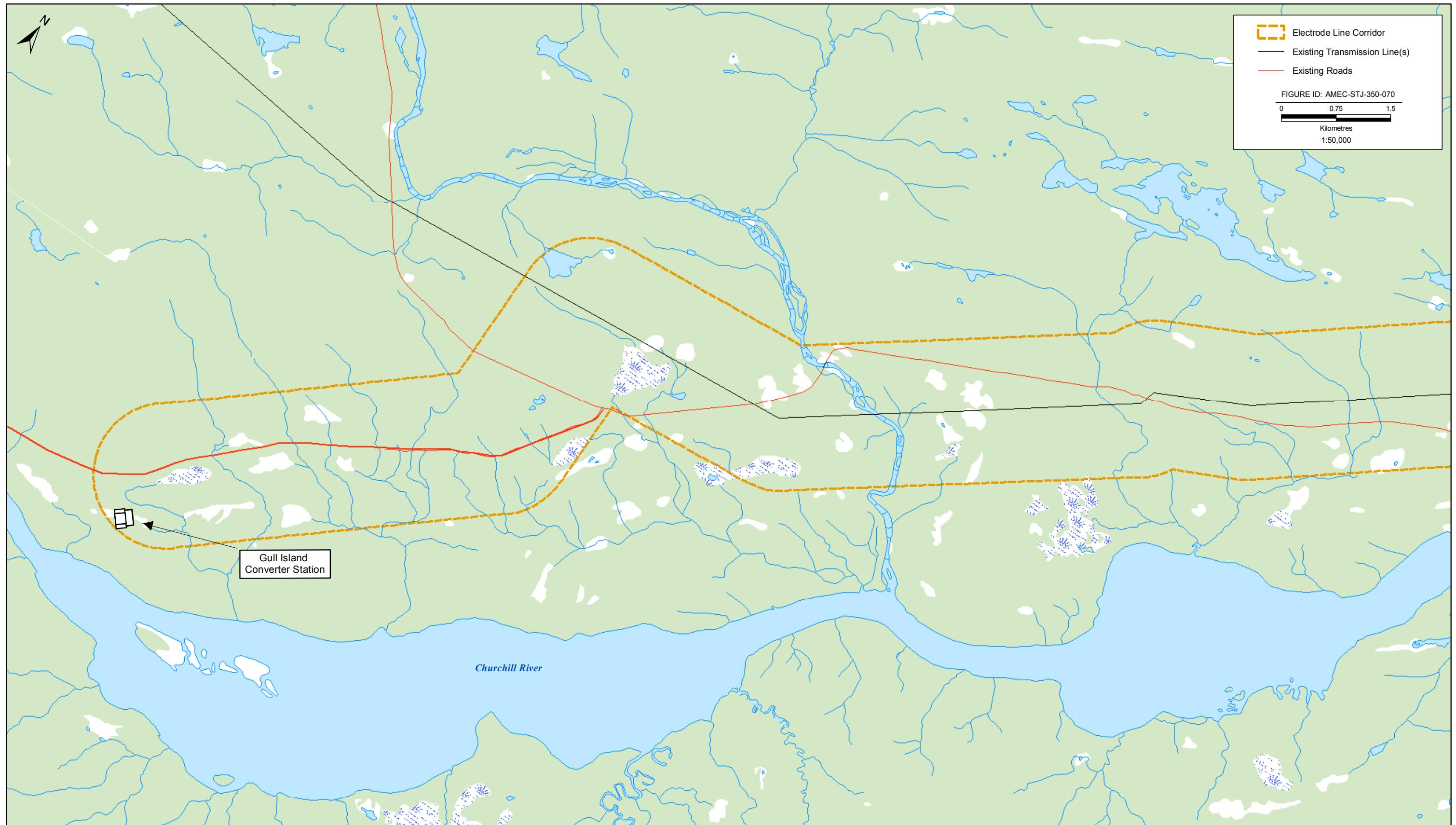
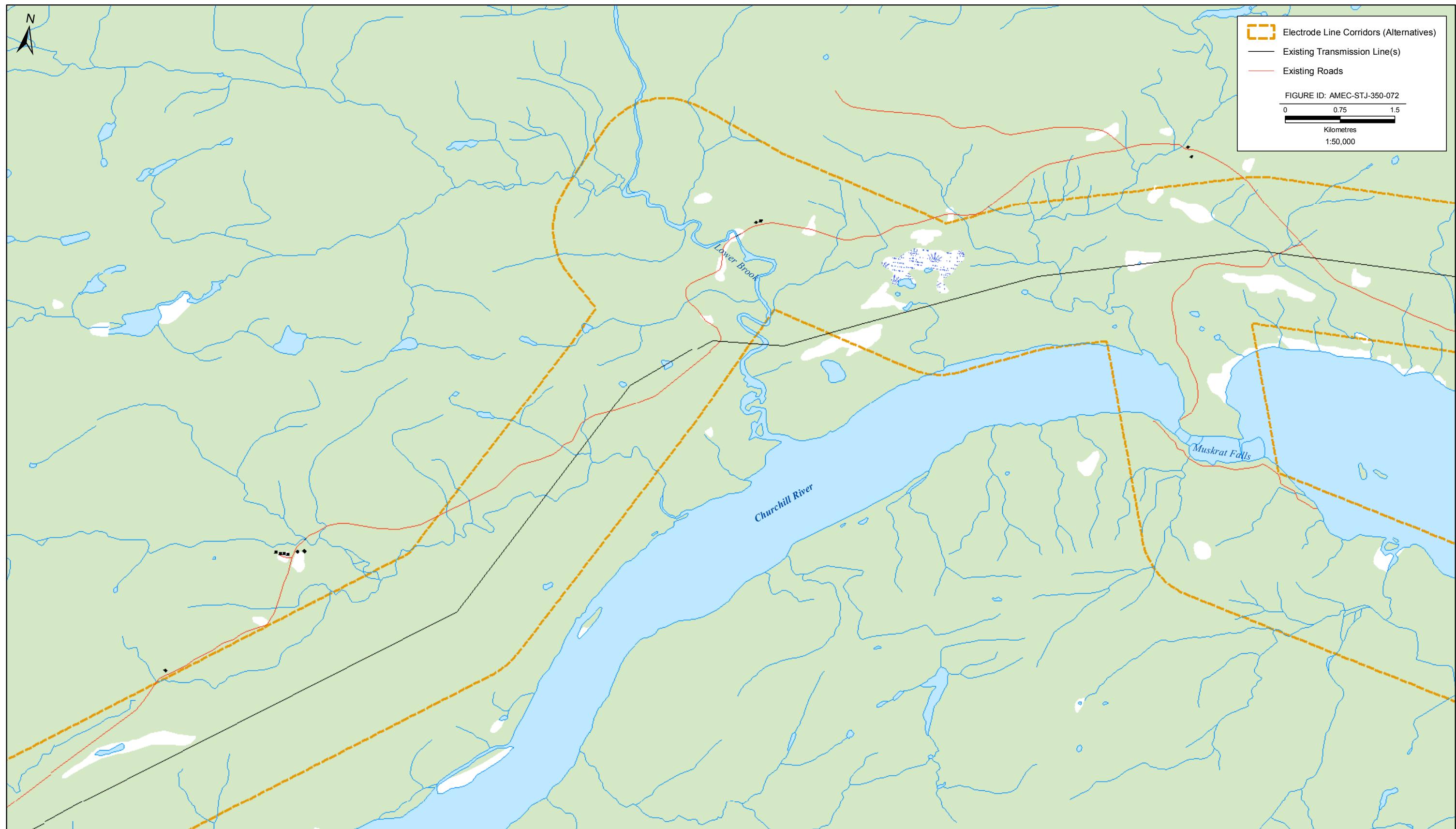


FIGURE 5.70



FIGURE 5.71



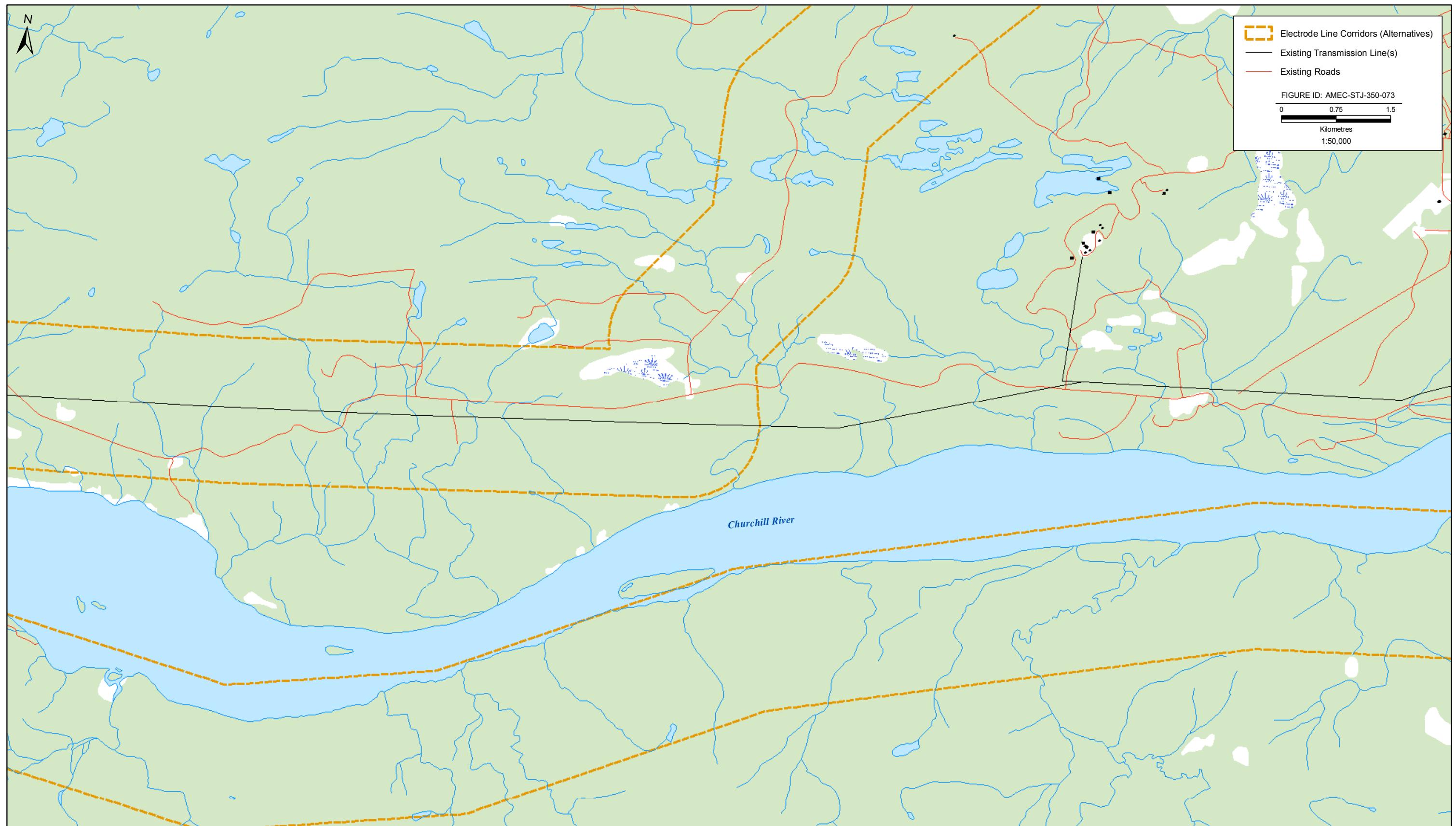


FIGURE 5.73



FIGURE 5.74

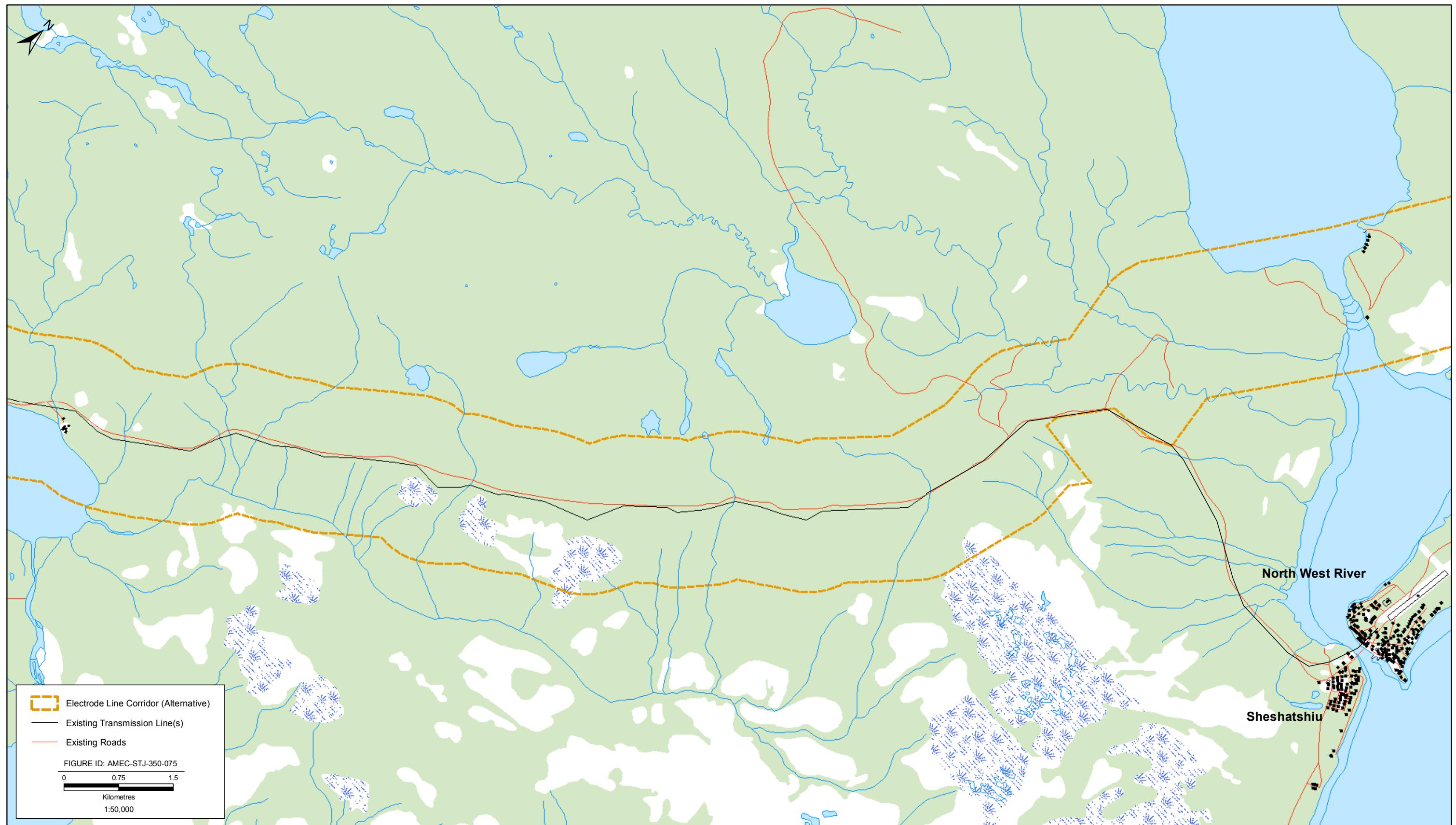
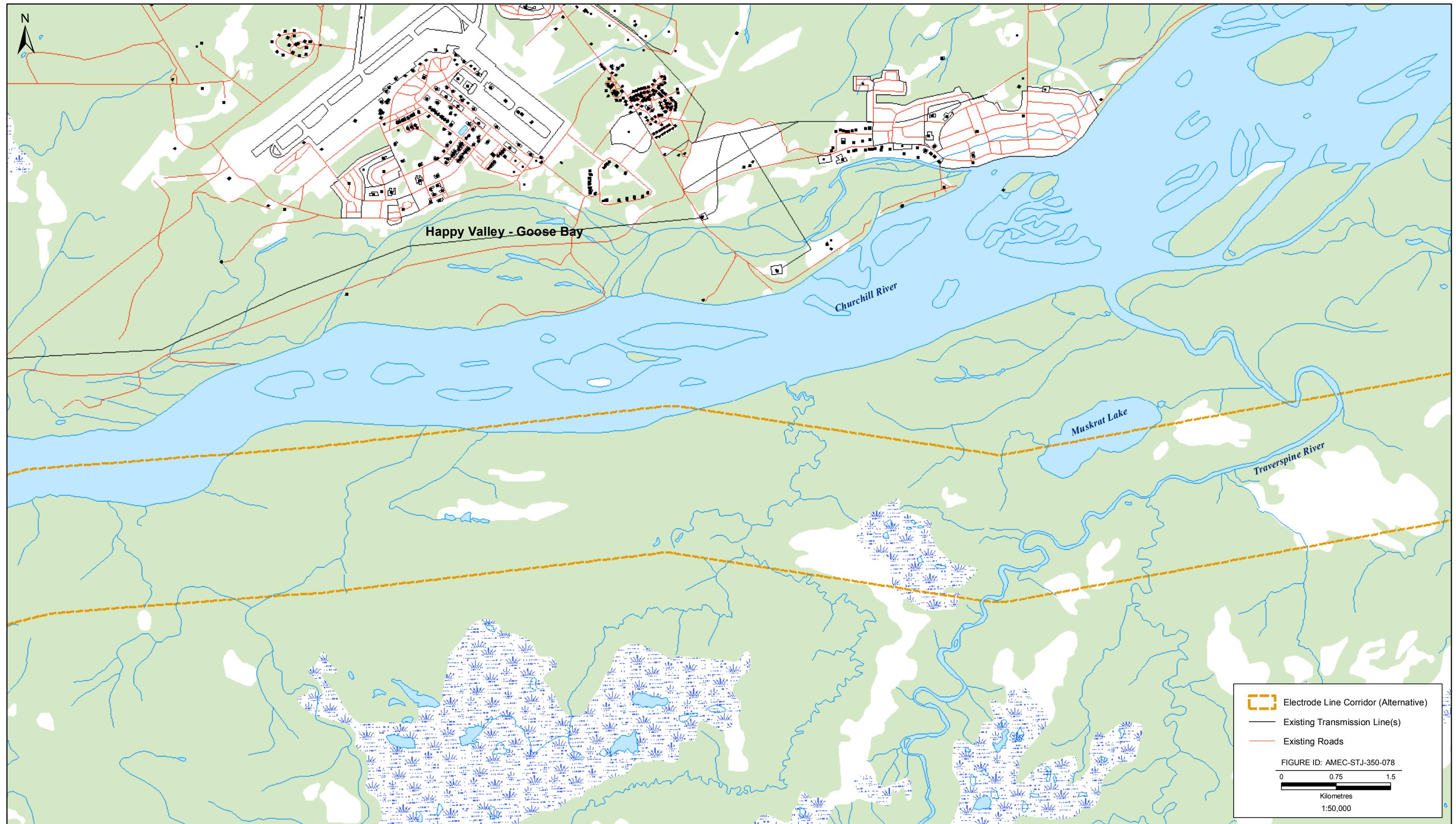


FIGURE 5.75

Labrador - Island Transmission Link: Labrador Electrode Line Corridors and Study Areas (Alternatives) - # 75







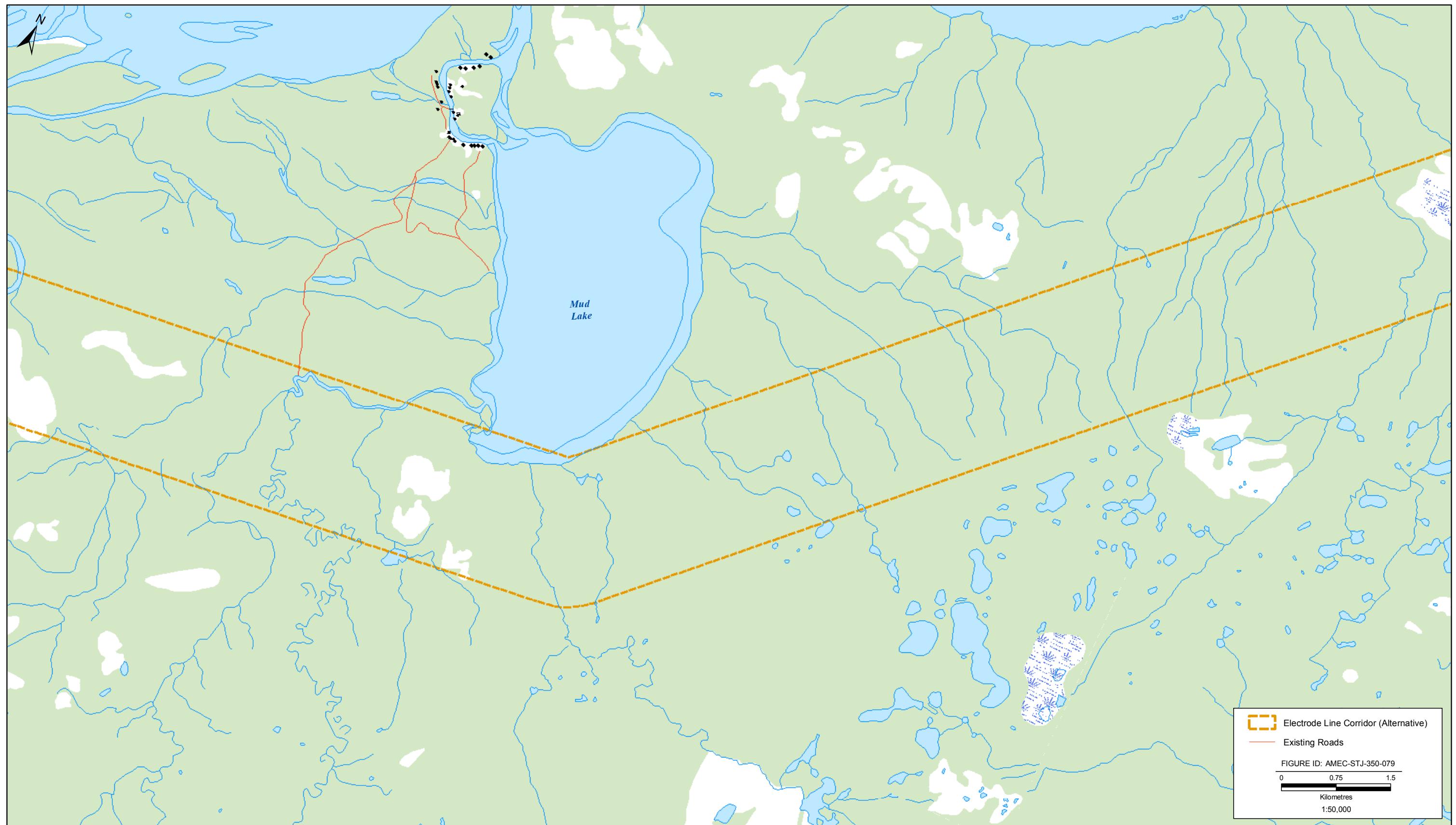
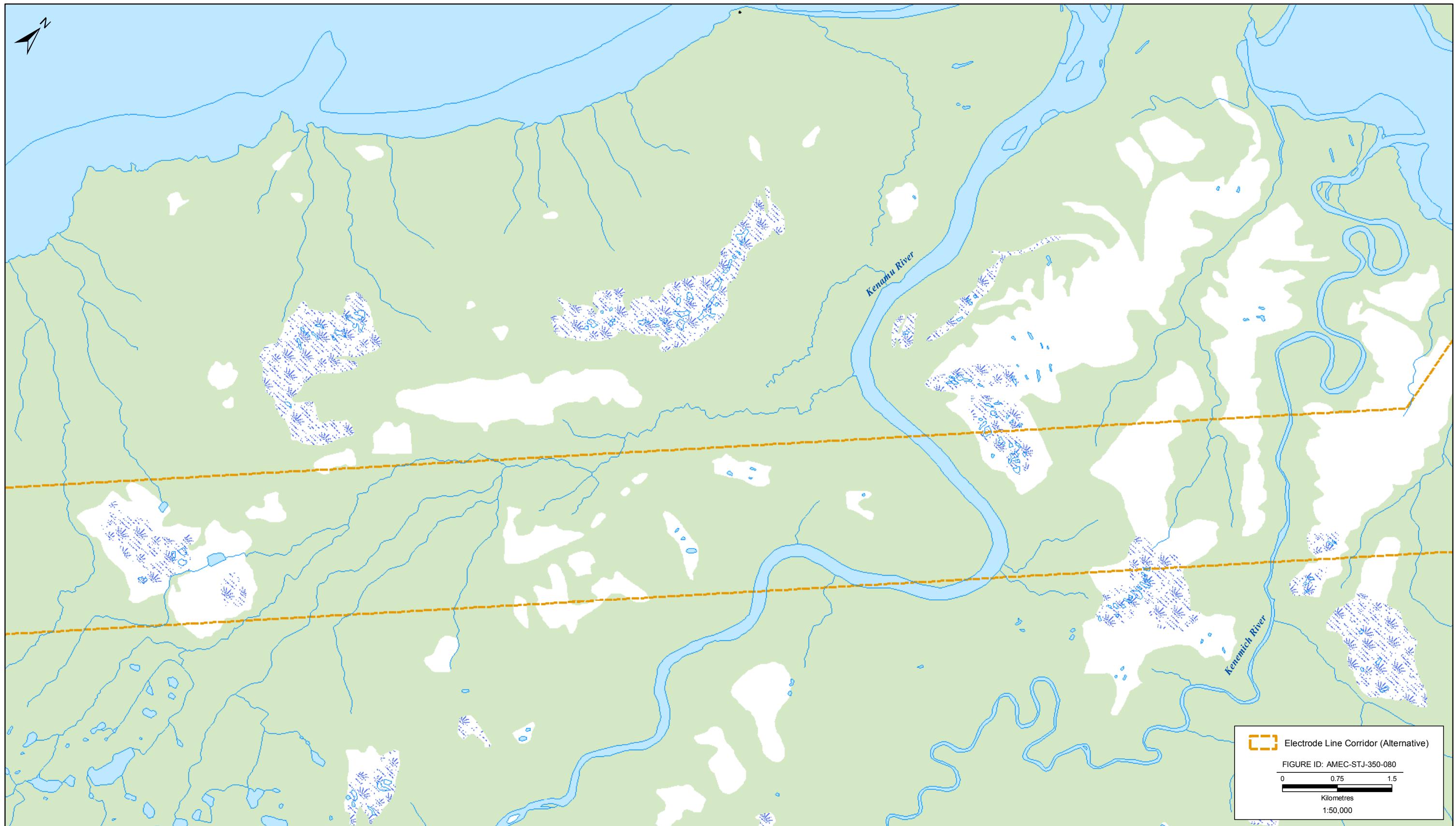


FIGURE 5.79



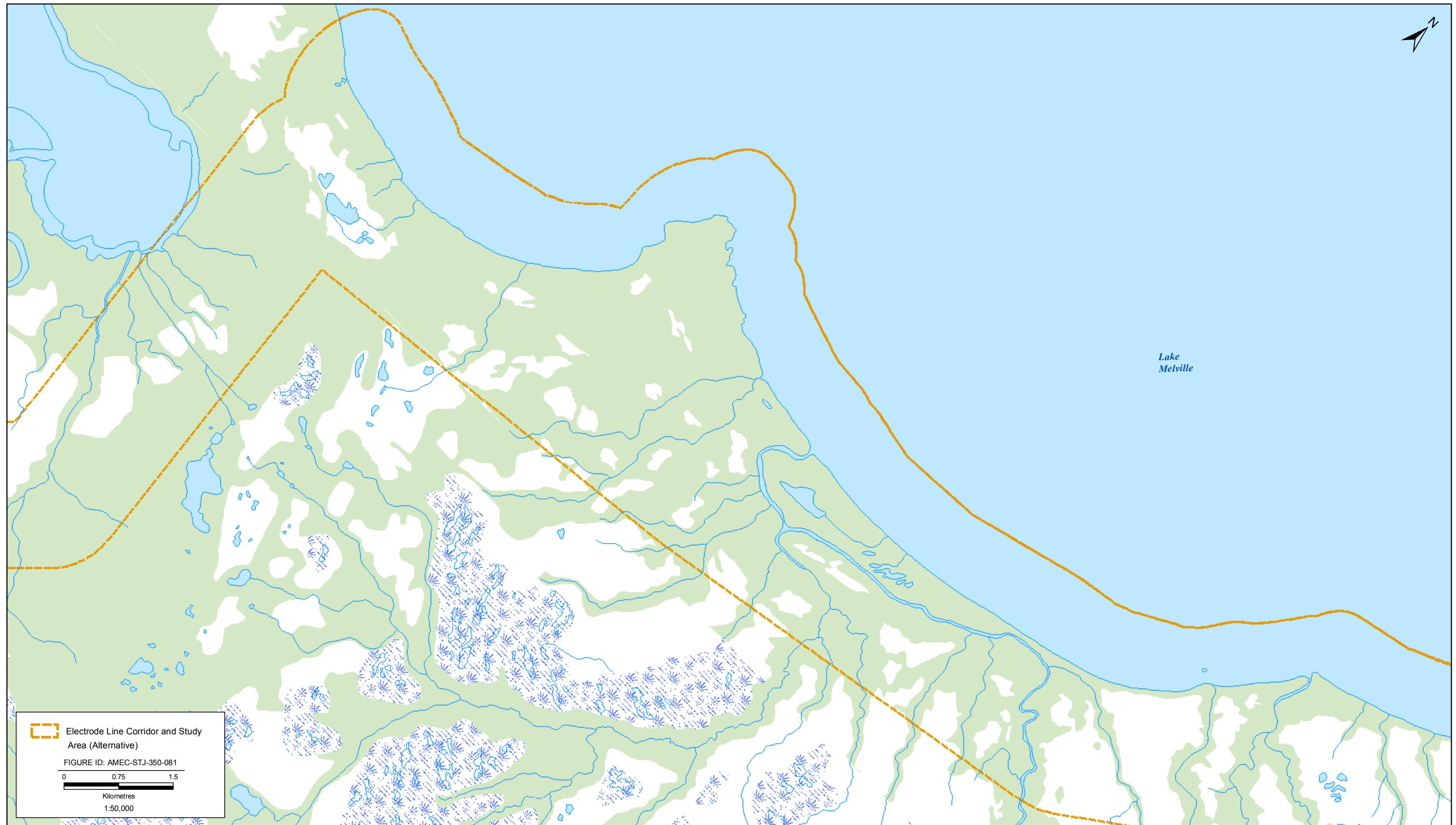


FIGURE 5.81



FIGURE 5.82