T145 R27
T145 R26
Morse
T145 R25
T57 R27
T57 R26
T56 R27
T56 R26
T144 R27
T144 R26
Wahnena
T144 R25
T55 R27
T55 R26
Cohasset
Deer River
Zemple
Itasca County
Cass County
A.18
A.19
A.20
A.21
A.22
A.23
37c
33d
37b
39
41
42
45
47
50
51
54
57
58
62
63
64
66
68
67
69
72
73
Boswell Substation
0 0.5 1 2
Miles

Map Document: (N:\GISProj\Otertail\48496\map_docs\mxd\MN route app\Report\Revised\append_A_segment_maps_11x17.mxd)
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Bemidji-Grand Rapids 230-kV line
CapX2020
Delivering electricity you can rely on

Proposed Route Segments
- Route 1 Segment
- Route 2 Segment
- Alternate Route Segment
- Route 1 & 2 Segment
- Crossover Segment
- Appendix A.5 - A.27 Detailed Map Extents
- Route Segment Endpoint
- Project Endpoint
- Potential Cass Lake Substation Expansion
- Potential New Substation
- Existing Pipelines

Existing Transmission Lines
- 69 kV
- 115 kV
- 230 kV

- Leech Lake Reservation
- Minucipality
- Chippewa National Forest
- MN DNR WMA
- MN DNR SNA
- MN DNR State Park
- MN DNR State Forest

Appendix A.4: Proposed Route Segments
230 kV Bemidji to Grand Rapids
Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company & Minnesota Power

T145 R28

T145 R27

T144 R27

US Hwy 2

US Hwy 2

37c

33d

RICE LAKE

NUSHKA LAKE

SIXMILE LAKE

White Oak Rd NE

Tile Locator Map

A.5 A.6 A.7 A.24 A.8 A.9 A.10 A.13 A.14 A.25 A.11 A.12 A.15 A.16 A.17 A.19 A.21 A.26 A.20 A.22 A.27 A.23

0 1,000 2,000 3,000 Feet

N

Bemidji-Grand Rapids 230-kV line

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Potential Routes
- Route 1
- Route 2
- Routes 1 & 2
- Alternate Segment
- Crossover Segment

- Project Endpoint
- Proposed Cass Lake Substation

Existing Transmission Lines
- 69 kV Transmission Line
- 115 kV Transmission Line
- 230 kV Transmission Line

- Leech Lake Reservation
- Existing Pipeline
- Proposed Enbridge Pipeline
- Communication Tower
- Substation

Natural Resource Areas
- Wildlife Management Area
- Chippewa National Forest
- MN State Forest
- MN DNR SNA

Hydrology
- NWI Wetland
- PWI Lake
- PWI Stream

- Recreational Trail
- Snowmobile Trail
- Water Access
- Residences
- Gravel Pit

Appendix A.18: Detailed Route Maps
230 kV Bemidji to Grand Rapids
Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company & Minnesota Power

Map Document: (N:\GIS\Proj\Otertail\48496\map_docs\mxd\MN route app\Report\Revised\Append_A_Detailed_Routes_11x17_public.mxd)
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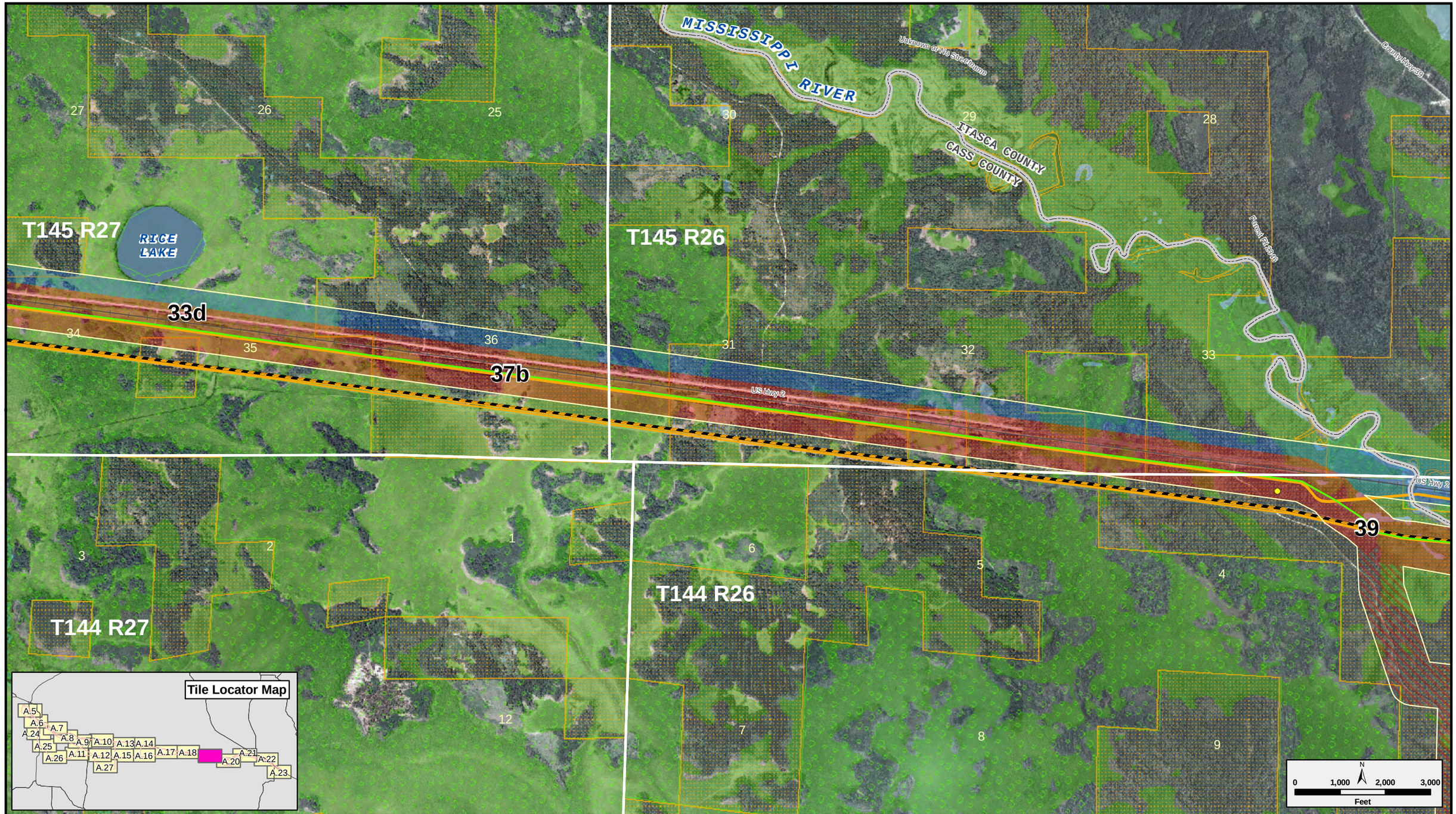

Bemidji-Grand Rapids 230-kV line

CapX2020

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Potential Routes
- Route 1
- Route 2
- Routes 1 & 2
- Alternate Segment
- Crossover Segment

- Project Endpoint
- Proposed Cass Lake Substation

Existing Transmission Lines
- 69 kV Transmission Line
- 115 kV Transmission Line
- 230 kV Transmission Line

- Leech Lake Reservation
- Existing Pipeline
- Proposed Enbridge Pipeline
- Communication Tower
- Substation

Natural Resource Areas
- Wildlife Management Area
- Chippewa National Forest
- MN State Forest
- MN DNR SNA

Hydrology
- NWI Wetland
- PWI Lake
- PWI Stream

- Recreational Trail
- Snowmobile Trail
- Water Access
- Residences
- Gravel Pit

Appendix A.19: Detailed Route Maps
230 kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative, Otter Tail Power Company & Minnesota Power

Map Document: (N:\GIS\Proj\Otertail\48496\map_docs\mxd\MN route app\Report\Revised\Append_A_Detailed_Routes_11x17_public.mxd)
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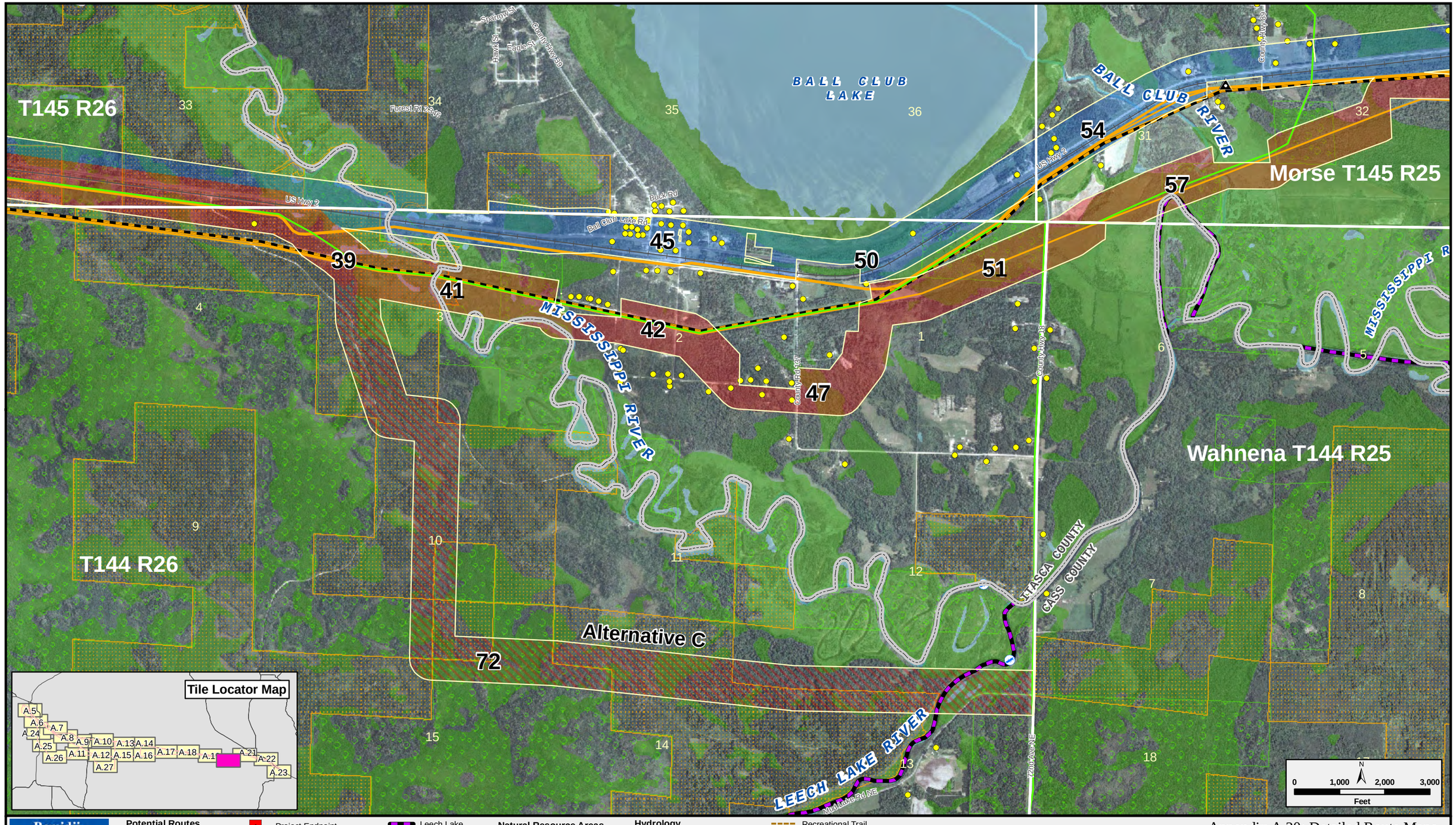

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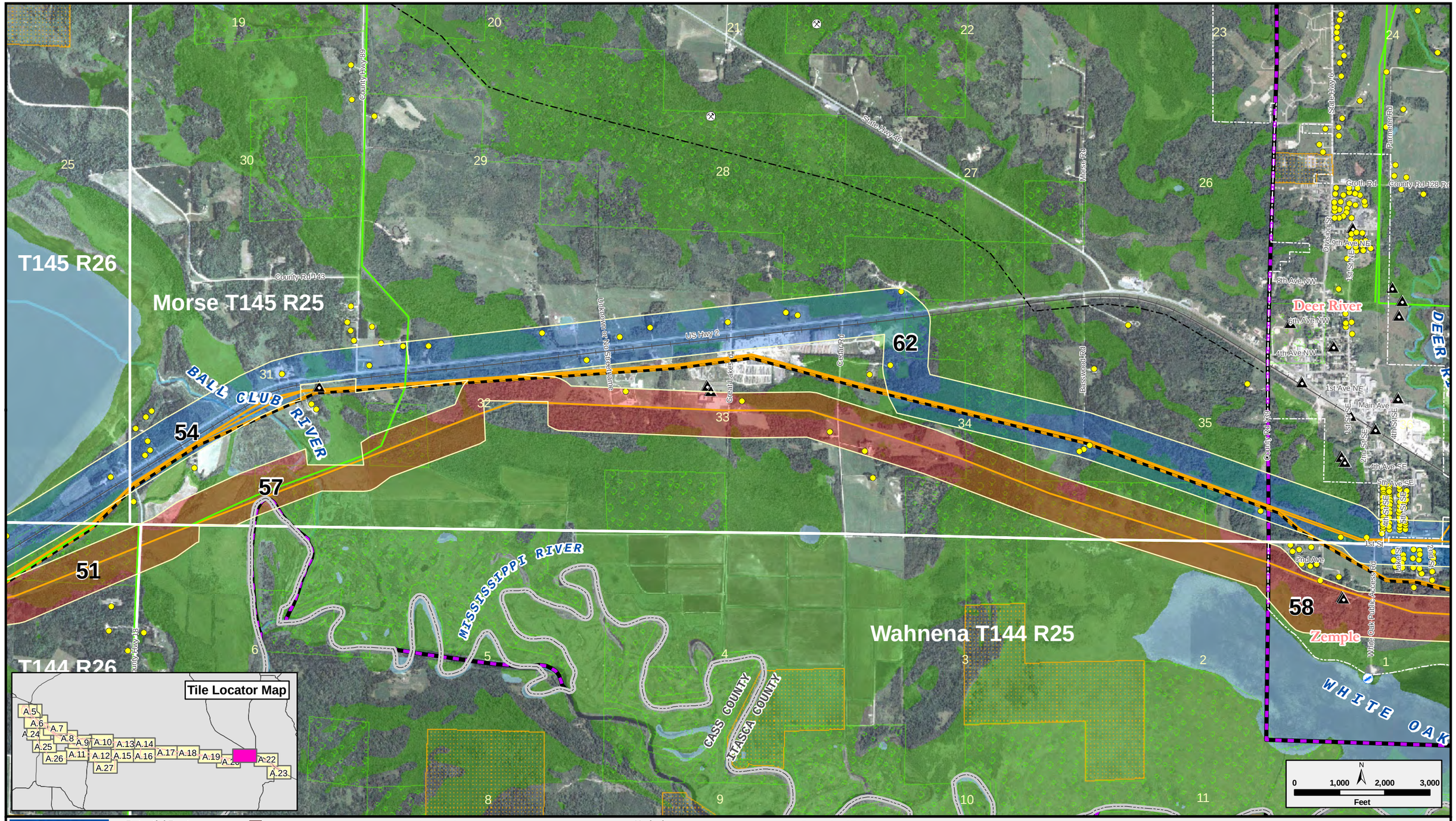
Appendix A.20: Detailed Route Maps
230 kV Bemidji to Grand Rapids
Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company & Minnesota Power



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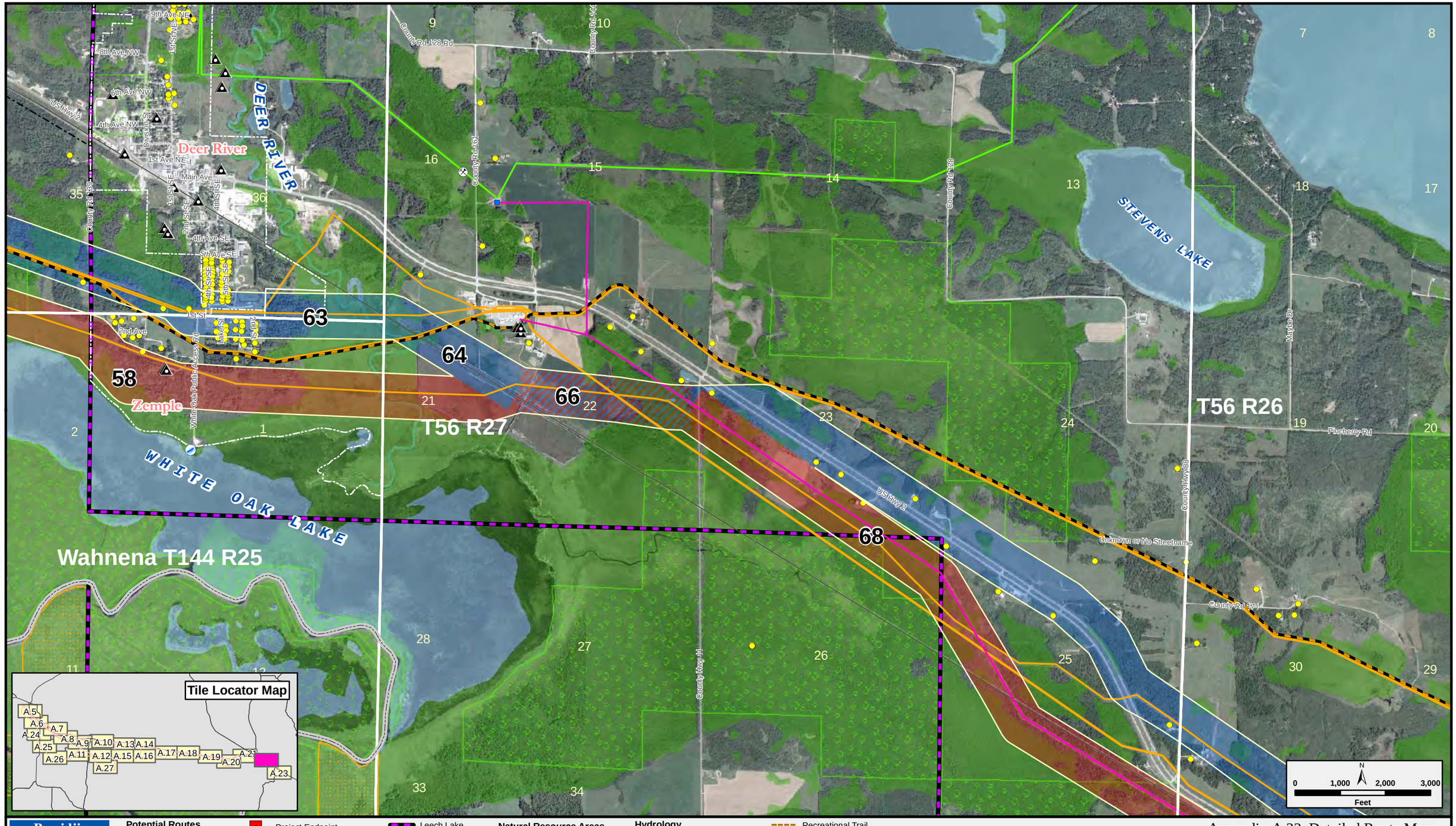
Appendix A.21: Detailed Route Maps
230 kV Bemidji to Grand Rapids
Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company & Minnesota Power



Bemidji-Grand Rapids 230-kV line

CapX2020

Delivering electricity you can rely on

Potential Routes
- Route 1
- Route 2
- Routes 1 & 2
- Alternate Segment
- Crossover Segment

- Project Endpoint
- Proposed Cass Lake Substation

Existing Transmission Lines
- 69 kV Transmission Line
- 115 kV Transmission Line
- 230 kV Transmission Line

- Leech Lake Reservation
- Existing Pipeline
- Proposed Enbridge Pipeline
- Communication Tower
- Substation

Natural Resource Areas
- Wildlife Management Area
- Chippewa National Forest
- MN State Forest
- MN DNR SNA

Hydrology
- NWI Wetland
- PWI Lake
- PWI Stream

- Recreational Trail
- Snowmobile Trail
- Water Access
- Residences
- Gravel Pit

Appendix A.22: Detailed Route Maps
230 kV Bemidji to Grand Rapids
Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company & Minnesota Power

Map Document: (N:\GISProj\Ottertail\48496\map_docs\mxd\MN route app\Report\Revised\Append_A_Detailed_Routes_11x17_public.mxd)
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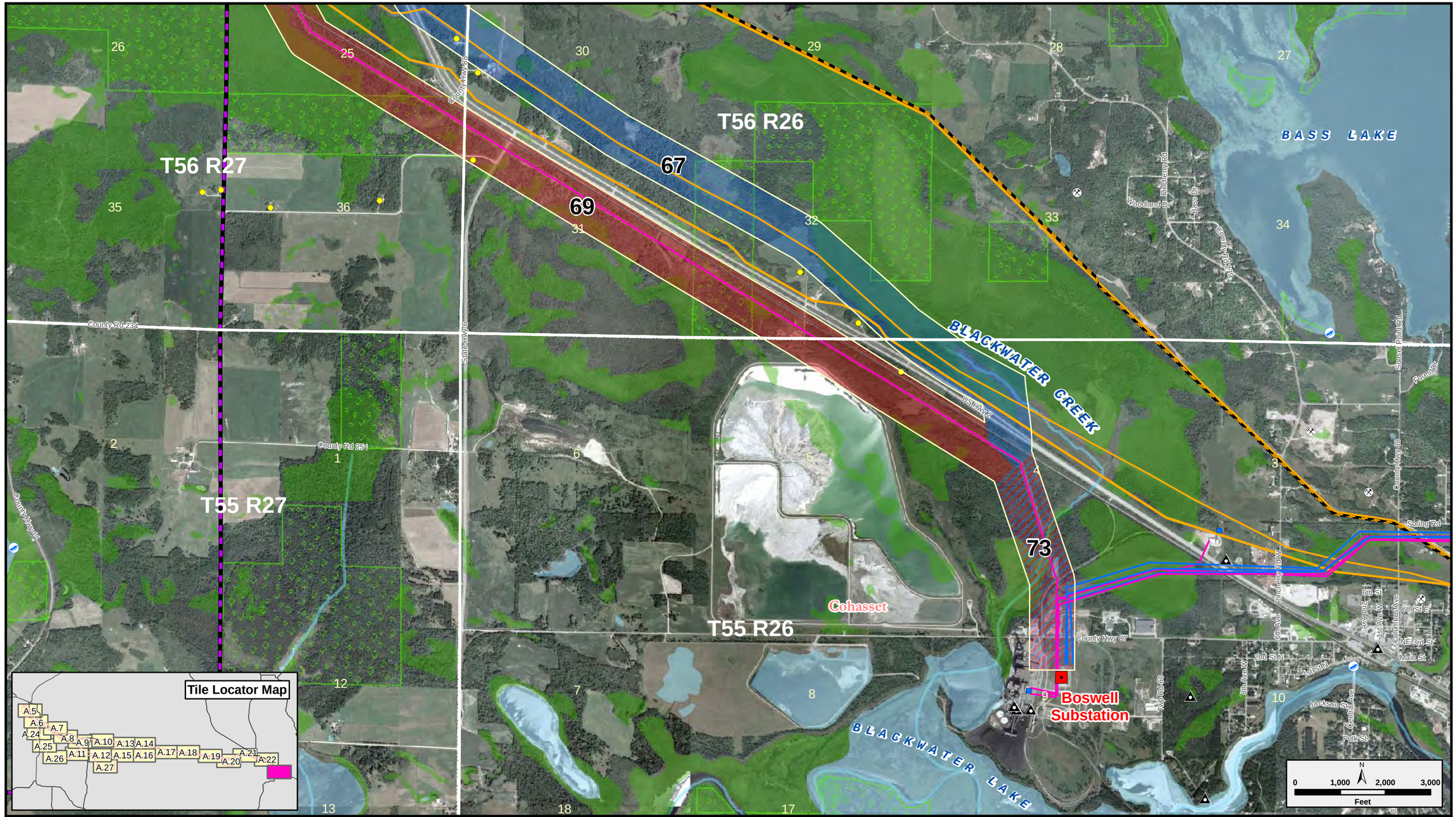

Bemidji-Grand Rapids 230-kV line

CapX2020 Delivering electricity you can rely on

Potential Routes
- Route 1
- Route 2
- Routes 1 & 2
- Alternate Segment
- Crossover Segment

- Project Endpoint
- Proposed Cass Lake Substation

Existing Transmission Lines
- 69 kV Transmission Line
- 115 kV Transmission Line
- 230 kV Transmission Line

- Leech Lake Reservation
- Existing Pipeline
- Proposed Enbridge Pipeline
- Communication Tower
- Substation

Natural Resource Areas
- Wildlife Management Area
- Chippewa National Forest
- MN State Forest
- MN DNR SNA

Hydrology
- NWI Wetland
- PWI Lake
- PWI Stream

- Recreational Trail
- Snowmobile Trail
- Water Access
- Residences
- Gravel Pit

Appendix A.23: Detailed Route Maps
230 kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative, Otter Tail Power Company & Minnesota Power

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