Grant Valley T146 R34

Bemidji T146 R33

Bemidji

Bemidji Slough WMA

Tile Locator Map

0 1,000 2,000 3,000 Feet

Map Document: (\\mnspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\MNCES_EIS\map L 11x17 Detailed Routes 20100712.mxd) 7/12/2010 -- 12:31:37 PM

USDA Rural Development

office of energy security

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

Appendix D, Sheet 2 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement

Bemidji

Bemidji T146 R33

Frohn T146 R32

Farden T145 R32

Helga T145 R33

US Hwy 2

Paul Bunyan Dr SE

Oak Hills Rd SE

30th St SE

Lynx Rd SE

Boulder Dr SE

Frohn Rd SE

Walnut Rd SE

Aldrin Dr SE

Van Buren Ave SE

Sunnyside Rd SE

N Plantagenet Rd SE

County Hwy 46

Beltrami Line Rd

BELTRAMI COUNTY

HUBBARD COUNTY

27th Ave

Wildpecan Hill Rd

White Cedar Loop

White Cedar Rd

County Hwy 45

510th St

County Hwy 36

25 26 27 28 29 30 31 32 33 34 35 36

1 2 3 4 5 6 7 8 9 10 12

Tile Locator Map

0 1,000 2,000 3,000

Feet

Map Document: (\\nsge-gis-file\GIS\Proj\Ottertail\48496\mxd_docs\mxd\MNOES_EIS\map_L_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 -- 12:31:37 PM

USDA Rural Development

office of energy security

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

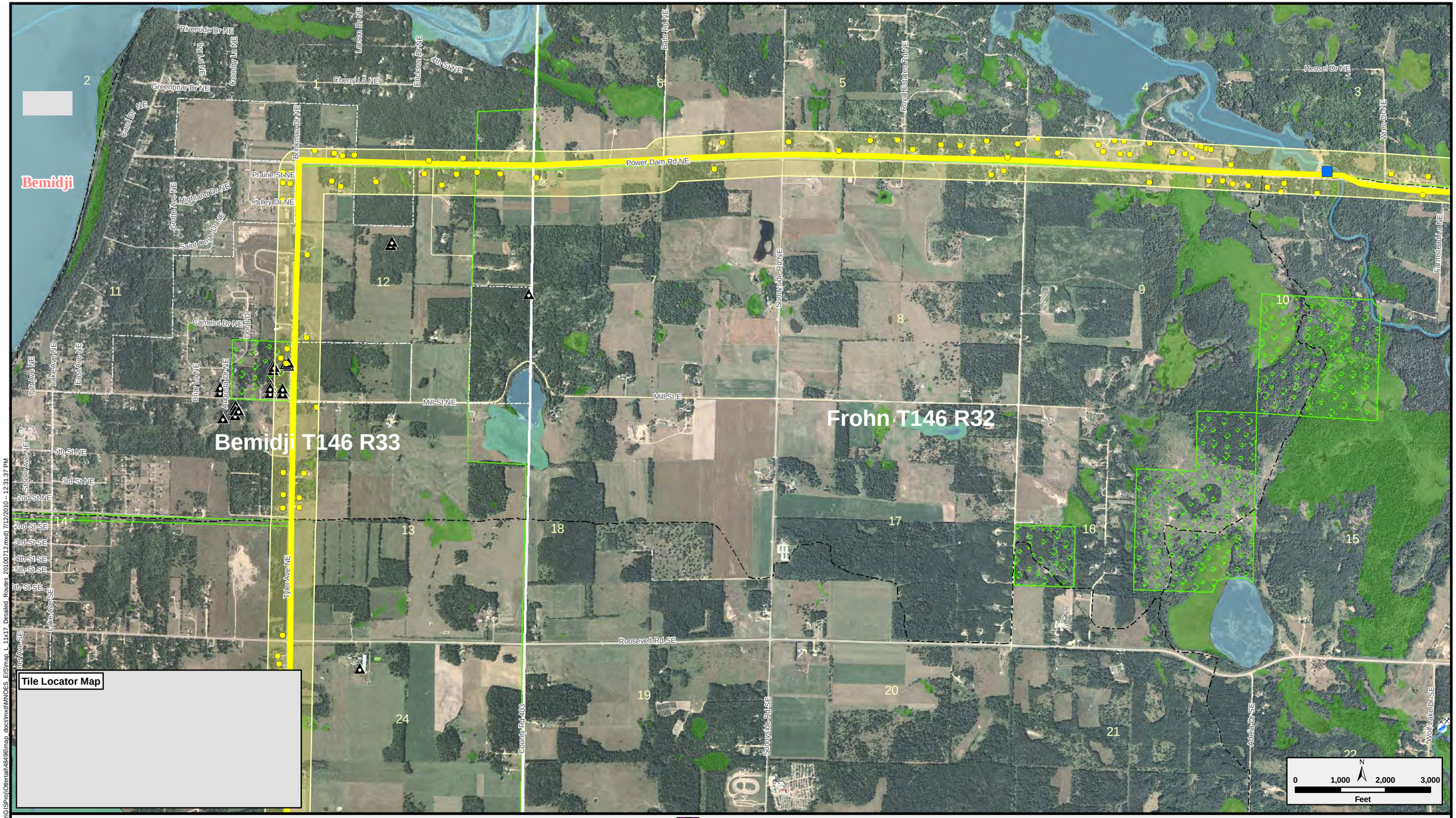
Existing Transmission Lines
- 69 kV
- 115 kV
- 230 kV

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit



Map Document: (\\nspe-gis-file\GISProj\Otertail\48496\map_docs\mxd\MNOES_EISmap_L_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 – 12:31:37 PM

USDA Rural Development

office of energy security

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

Appendix D, Sheet 24 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement

Turtle River T147 R32

Sugar Bush T147 R31

Ten Lake T146 R31

Tile Locator Map

N

0 1,000 2,000 3,000

Feet

Map Document: (\\nspe-gis-file\GISProj\Otertail\48496\map_docs\mxd\MNOES_EIS\map_1_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 – 12:31:37 PM

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

Appendix D, Sheet 25 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement

Turtle River T147 R32

Sugar Bush T147 R31

Birchmont Beach Rd NE

County Hwy 20

Lamon Rd NE

Big Lake Rd NE

Parkers Lake Rd NE

Onan Rd NE

Loon Lake Dr NE

Marcia Dr NE

Chickie Cherry Dr NE

Waterview Ct NE

Stump Rd NE

9 10 11 12 7 8

16 15 14 13 18 17

21 22 23 24 19 20

27 26 25 30 29

Tile Locator Map

0 1,000 2,000 3,000 Feet

N

Map Document: (\\mnspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\MNOES_EIS\map_L_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 -- 12:31:37 PM

USDA Rural Development

office of energy security

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

Appendix D, Sheet 26 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement

Port Hope T148 R32

Taylor T148 R31

Turtle River T147 R32

Sugar Bush T147 R31

Turtle River

County Hwy 22

County Rd 207

Lomond Lake Dr NE

Marcella Dr NE

Chuck Cherry Dr NE

Onan Rd NE

34 35 36 31 32 33

3 2 1 6 5 4

10 11 12 7 8 9

14 13 18 17 16

Tile Locator Map

0 1,000 2,000 3,000 Feet

N

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

Appendix D, Sheet 27 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\MNOES_EISVmap_L_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 – 12:31:37 PM

Port Hope T148 R32

Taylor T148 R31

US Hwy 71

County Rd 307

County Hwy 22

Tile Locator Map

Map Document: (\\mspe-njs-file\GIS\Proj\Otertail\48496\map_docs\mxd\MNOES_EIS\map_L_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 -- 12:31:37 PM

USDA Rural Development

office of energy security

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

0 1,000 2,000 3,000 Feet

Appendix D, Sheet 28 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement

Tenstrike

Port Hope T148 R32

Taylor T148 R31

County Hwy 29

US Hwy 71

County Hwy 45

Knappen Rd

Main St

2nd St

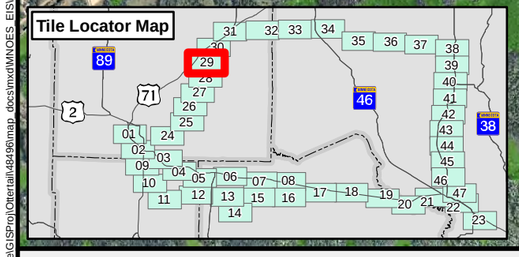
3rd St

County Rd 308

County Rd 307

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Tile Locator Map



0 1,000 2,000 3,000 Feet

N

Map Document: (\\nspe-gis-file\GISProj\Otertail\48496\map_docs\mxd\MNOES_EIS\map_1_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 – 12:31:37 PM

USDA Rural Development

office of energy security

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

Appendix D, Sheet 29 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement

Hines T149 R31

T149 R32

T148 R31

Tenstrike

County Rd 300

County Hwy 31

County Rd 308

County Rd 30

Tile Locator Map

0 1,000 2,000 3,000 Feet

N

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\MNOES_EISmap_L_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 – 12:31:37 PM

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

Appendix D, Sheet 30 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement

Map Document: (\\mspe-gis-file\GISProj\Otertail\48496\map_docs\mxd\MNOES_EIStmap_L_11x17_Detailed_Routes_20100712.mxd) 7/12/2010 – 12:31:37 PM

Route Alternatives
- Route 1
- Route 2
- Route 3
- Route 4
- Alternate Route Segment

Route ROW Alternatives
- Route 1
- Route 2
- Route 3
- Route 4

- Project Endpoints
- Breaker Station
- Proposed Substation

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

- Leech Lake Reservation
- Propsoed Pipelines
- Existing Pipeline
- Communication Tower
- Existing Substation

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

Hyrdology
- NWI Wetland
- PWI Wetland
- PWI Stream

- Snowmobile
- Recreational Trails
- Water Access
- Residence
- Gravel Pit

Appendix D, Sheet 31 of 47
Detailed Route Maps
230 kV BGR Transmission Line
Final Environmental Impact Statement