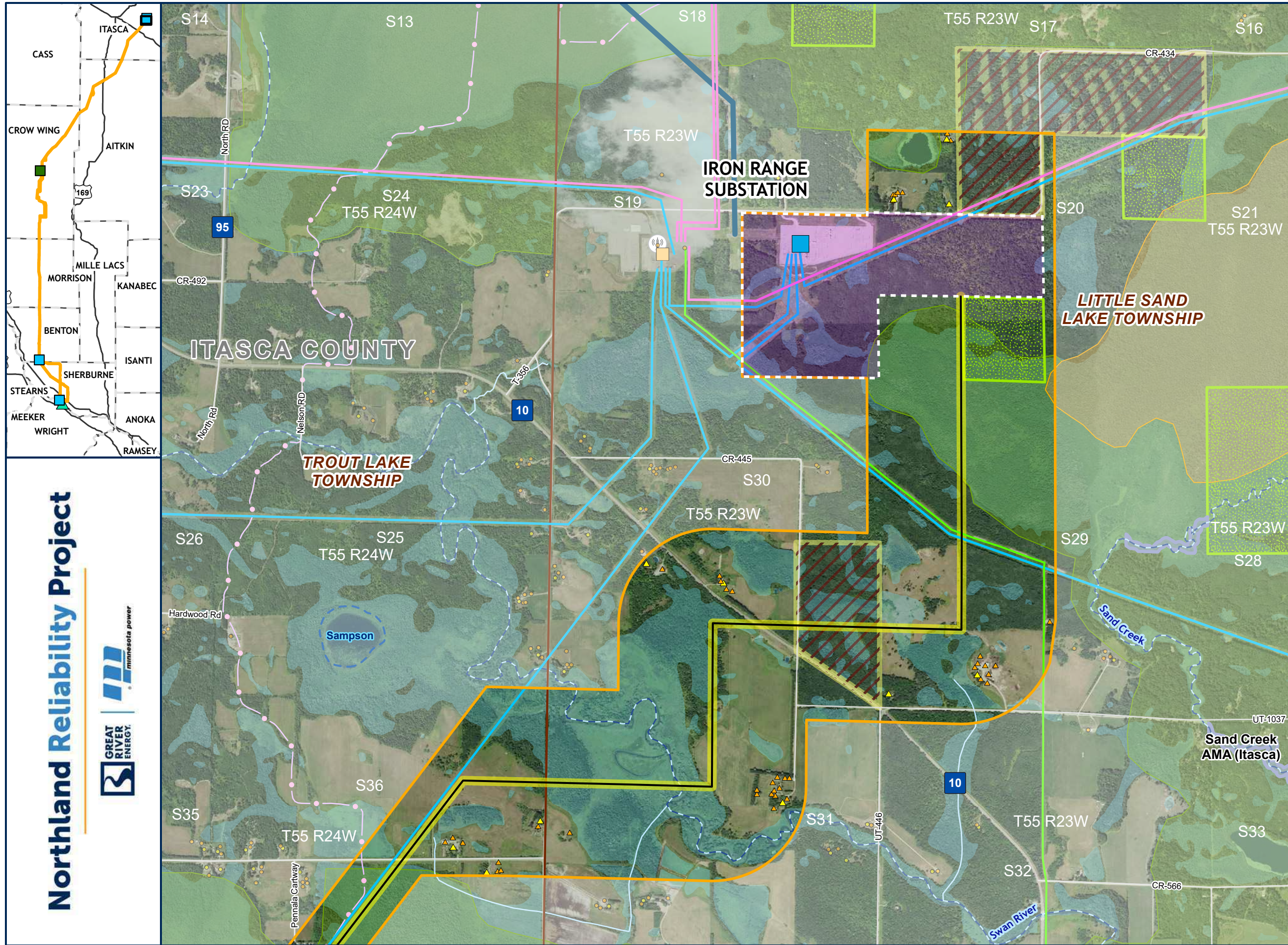


**Appendix J**  
**Detailed Route Maps and Figures**



Path: \\mspe-gis-file\GISPro\MinPower\10348886\_NRP\7\_2\_WIP\map\_docs\PRO\_projects\NRP\_Permit\_App\Appendix\NRP\_Permit\_App\_Appendix.aprx



**DETAILED MAP  
APPENDIX J**  
PAGE 1 OF 64

- ▬ PROPOSED ROUTE
- ▬ SUBSTATION SITING AREA
- PROJECT SUBSTATION
- ▬ PROPOSED RIGHT OF WAY
- ▬ PROPOSED CENTERLINE
- EXISTING SUBSTATIONS
- EXISTING TRANSMISSION
- ▬ 69 KV
- ▬ 115 KV
- ▬ 230 KV
- ▬ 345 KV AND ABOVE
- ▲ RESIDENTIAL STRUCTURE IN ROUTE
- ▲ NON-RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE
- RESIDENTIAL STRUCTURE
- GRAVEL PIT
- ⊕ COMMUNICATION TOWER
- ▬ ROAD
- ▬ COUNTY BOUNDARY
- ▬ TOWNSHIP BOUNDARY
- ▬ SNOWMOBILE TRAILS
- ▬ AQUATIC MANAGEMENT AREA
- ▬ OTHER STATE FOREST LAND
- ▬ PRIVATE COMMERCIAL FOREST
- ▬ MN WETLAND
- ▬ PUBLIC WATER BASIN
- ▬ PUBLIC WATER WATERCOURSE
- ▬ DNR STREAM/RIVER
- MBS SITE
- HIGH
- MODERATE

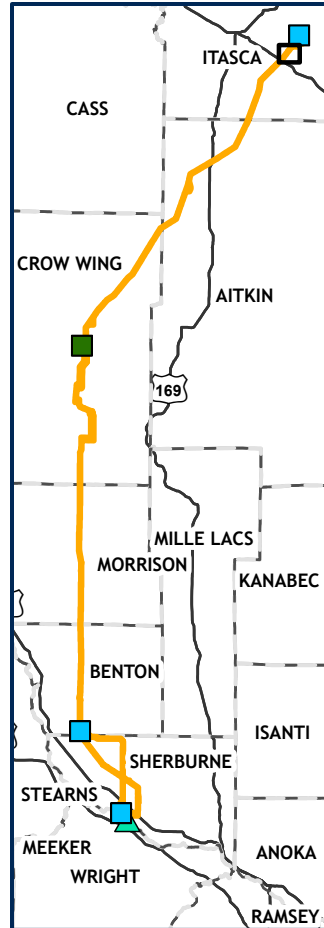


**Northland Reliability Project**

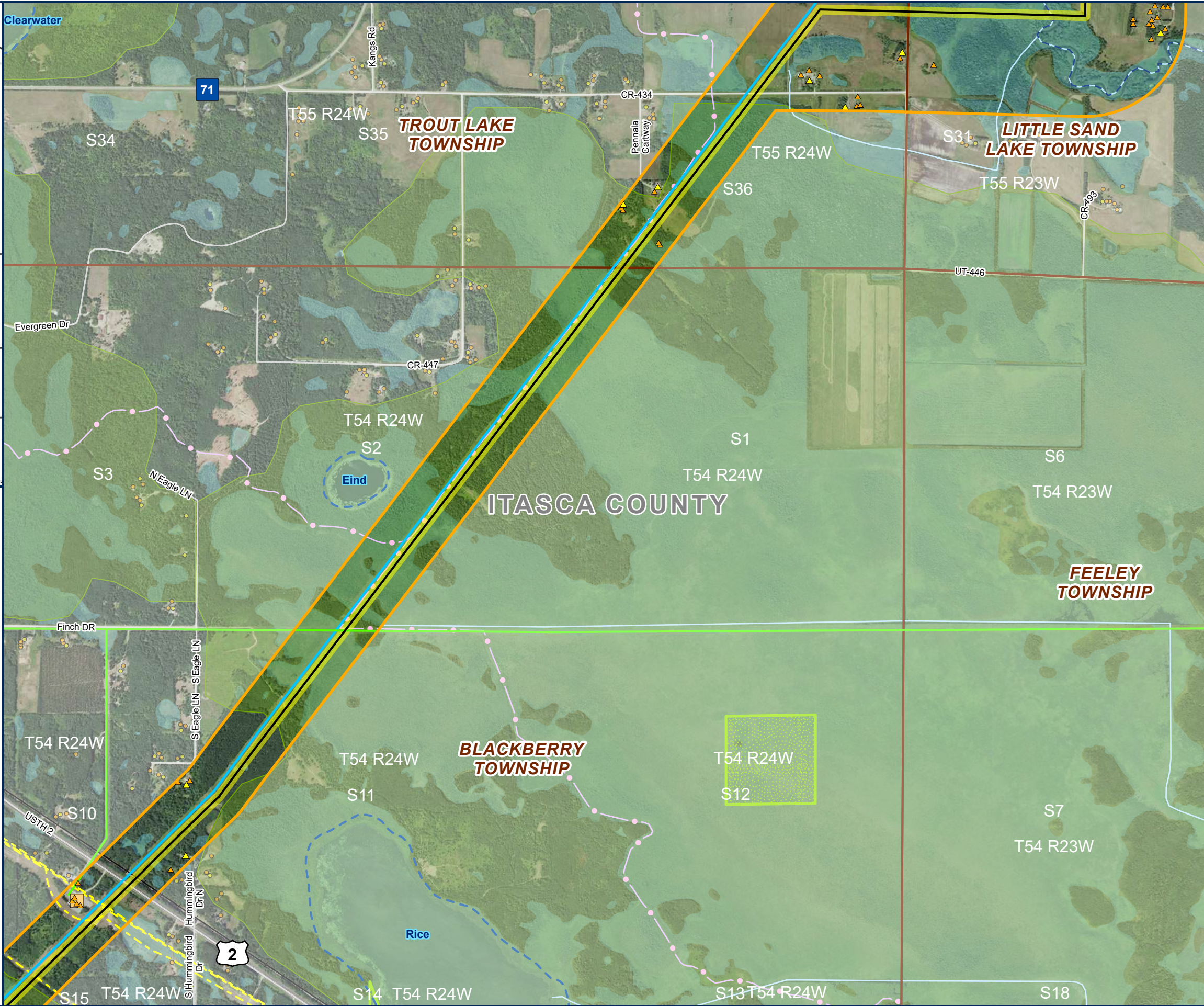




Path: \\mspe-gis-file\GISProj\MinPower\10348886\_NRP\7\_2\_WIP\map\_docs\PRO\_projects\NRP\_PermitApplication\NRP\_Permit\_App\_Appendix\NRP\_Permit\_App\_Appendix.aprx



**Northland Reliability Project**



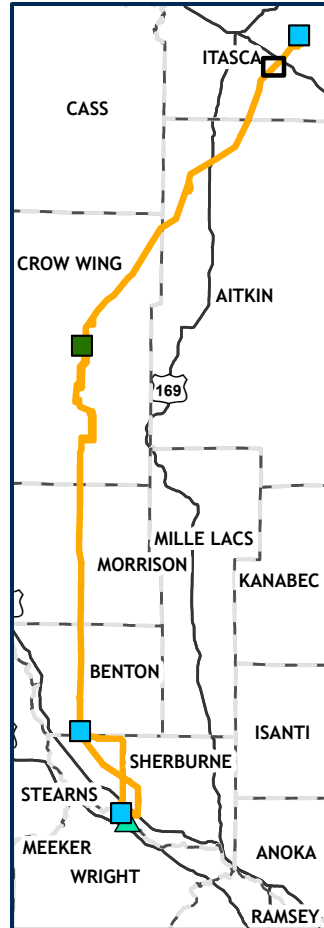
**DETAILED MAP APPENDIX J**  
PAGE 2 OF 64

- PROPOSED ROUTE
- PROPOSED RIGHT OF WAY
- PROPOSED CENTERLINE
- EXISTING SUBSTATIONS
- EXISTING TRANSMISSION
- 69 KV
- 230 KV
- RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE
- RESIDENTIAL STRUCTURE
- GRAVEL PIT
- PIPELINE
- ROAD
- RAILROAD
- COUNTY BOUNDARY
- TOWNSHIP BOUNDARY
- SNOWMOBILE TRAILS
- OTHER STATE FOREST LAND
- MN WETLAND
- PUBLIC WATER BASIN
- PUBLIC WATER WATERCOURSE
- DNR STREAM/RIVER
- MBS SITE
- MODERATE

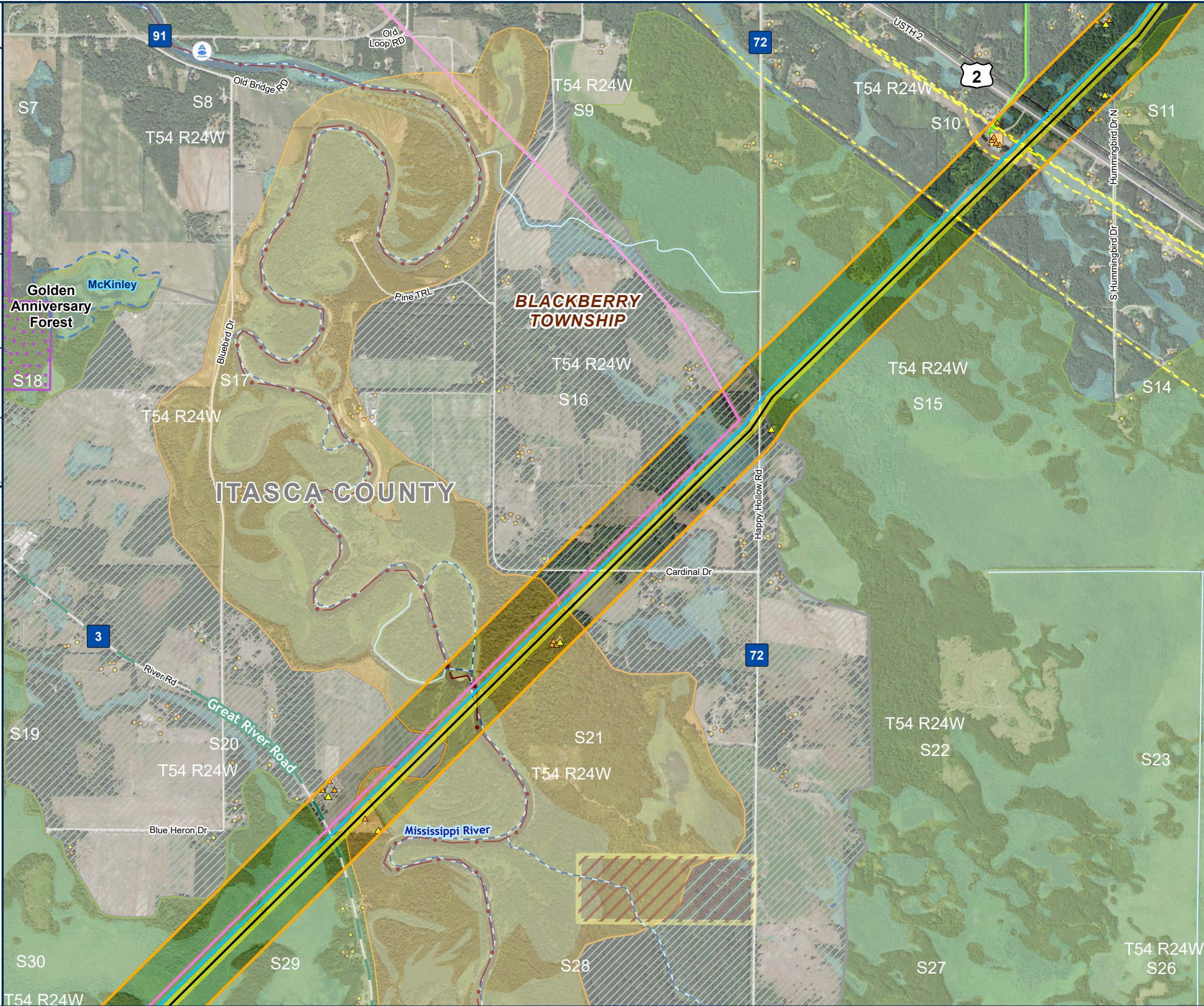
0 1,000 2,000 Ft



Path: \\mspe-gis-file\GISProj\MinPower\10348886\_NRP\7\_2\_WIP\map\_docs\PRO\_projects\NRP\_Permit\_App\Appendix\NRP\_Permit\_App\_AppendixJ.aprx



# Northland Reliability Project



### DETAILED MAP APPENDIX J

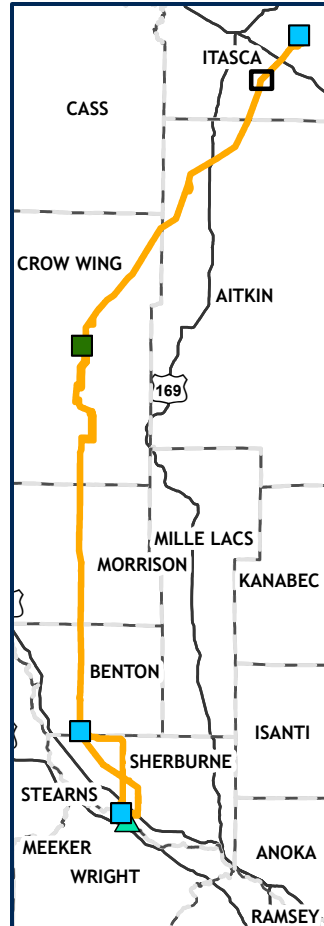
PAGE 3 OF 64

- PROPOSED ROUTE
- PROPOSED RIGHT OF WAY
- PROPOSED CENTERLINE
- EXISTING SUBSTATIONS
- EXISTING TRANSMISSION
  - 69 KV
  - 115 KV
  - 230 KV
- RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE
- RESIDENTIAL STRUCTURE
- GRAVEL PIT
- PIPELINE
- ROAD
- RAILROAD
- SCENIC BYWAYS
- WATER ACCESS SITE
- COUNTY BOUNDARY
- TOWNSHIP BOUNDARY
- STATE PARK TRAILS
- STATE FOREST LAND
- PRIVATE COMMERCIAL FOREST
- MN WETLAND
- PUBLIC WATER BASIN
- PUBLIC WATER
- WATERCOURSE
- DNR STREAM/RIVER
- MBS SITE
  - HIGH
  - MODERATE
  - BELOW

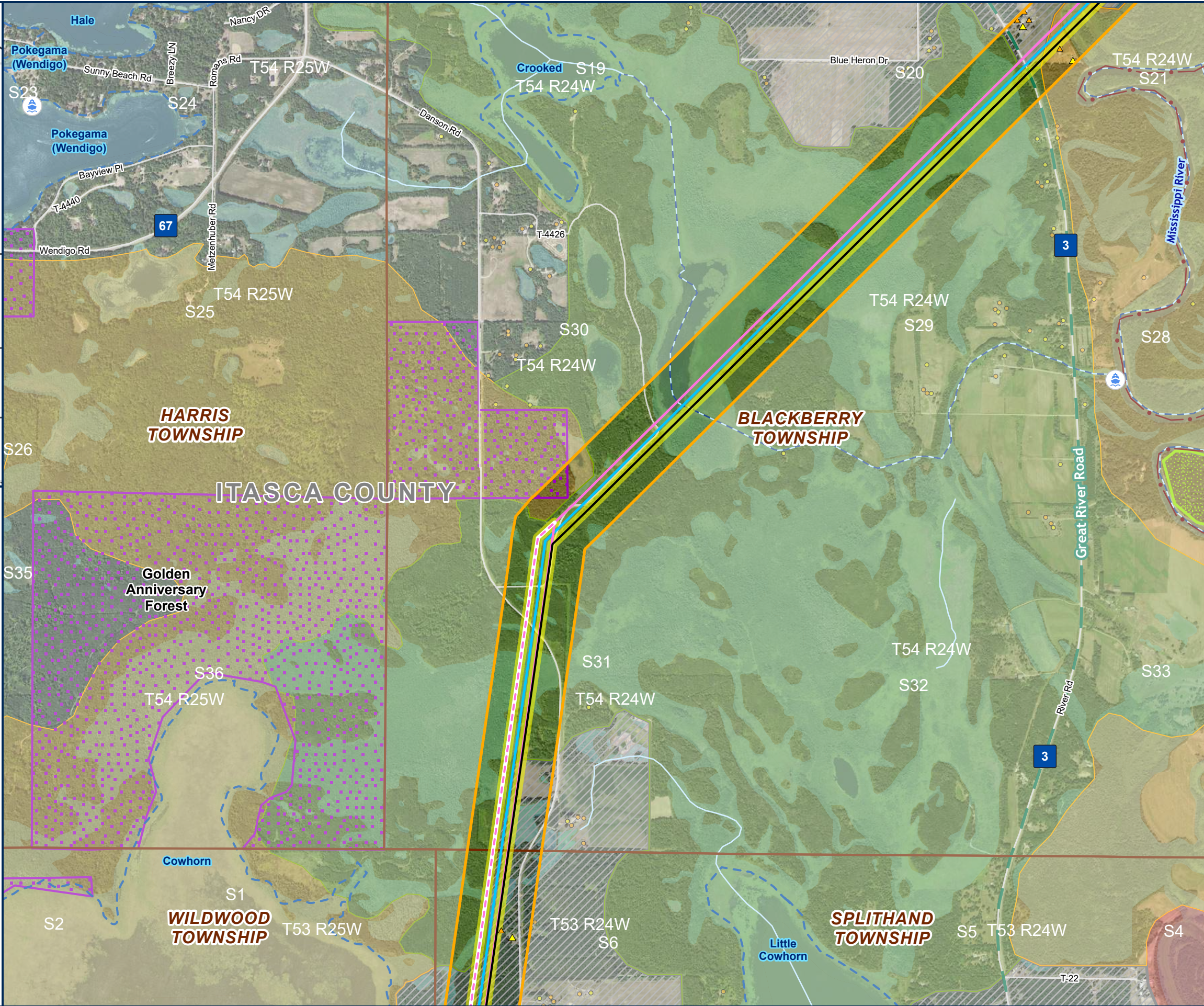
0 1,000 2,000 Ft



Path: \\mspe-gis-file\GISProj\GISProj\10348886\_NRP\7\_2\_WIP\map\_docs\PRO\_projects\NRP\_Permit\_App\Appendix\NRP\_Permit\_App\_Appendix.aprx



**Northland Reliability Project**



**DETAILED MAP APPENDIX J**  
PAGE 4 OF 64


























- PROPOSED ROUTE
- PROPOSED RIGHT OF WAY
- PROPOSED CENTERLINE
- SHIFT 115KV CENTERLINE
- EXISTING TRANSMISSION
- 115 KV
- 230 KV
- RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE
- RESIDENTIAL STRUCTURE
- GRAVEL PIT
- ROAD
- SCENIC BYWAYS
- WATER ACCESS SITE
- COUNTY BOUNDARY
- TOWNSHIP BOUNDARY
- STATE PARK TRAILS
- STATE FOREST LAND
- OTHER STATE FOREST LAND
- MN WETLAND
- PUBLIC WATER BASIN
- PUBLIC WATER
- WATERCOURSE
- DNR STREAM/RIVER
- MBS SITE
- OUTSTANDING
- HIGH
- MODERATE
- BELOW

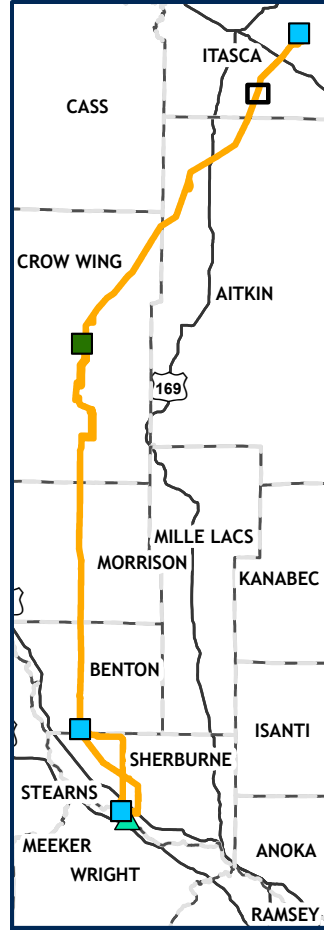
0 1,000 2,000 Ft



Path: \\mspe-gis-file\GISProj\GISProj\10348886\_NRP\7\_2\_WIP\map\_docs\PRO\_projects\NRP\_Permit\_App\Appendix\NRP\_Permit\_App\_Appendix.aprx

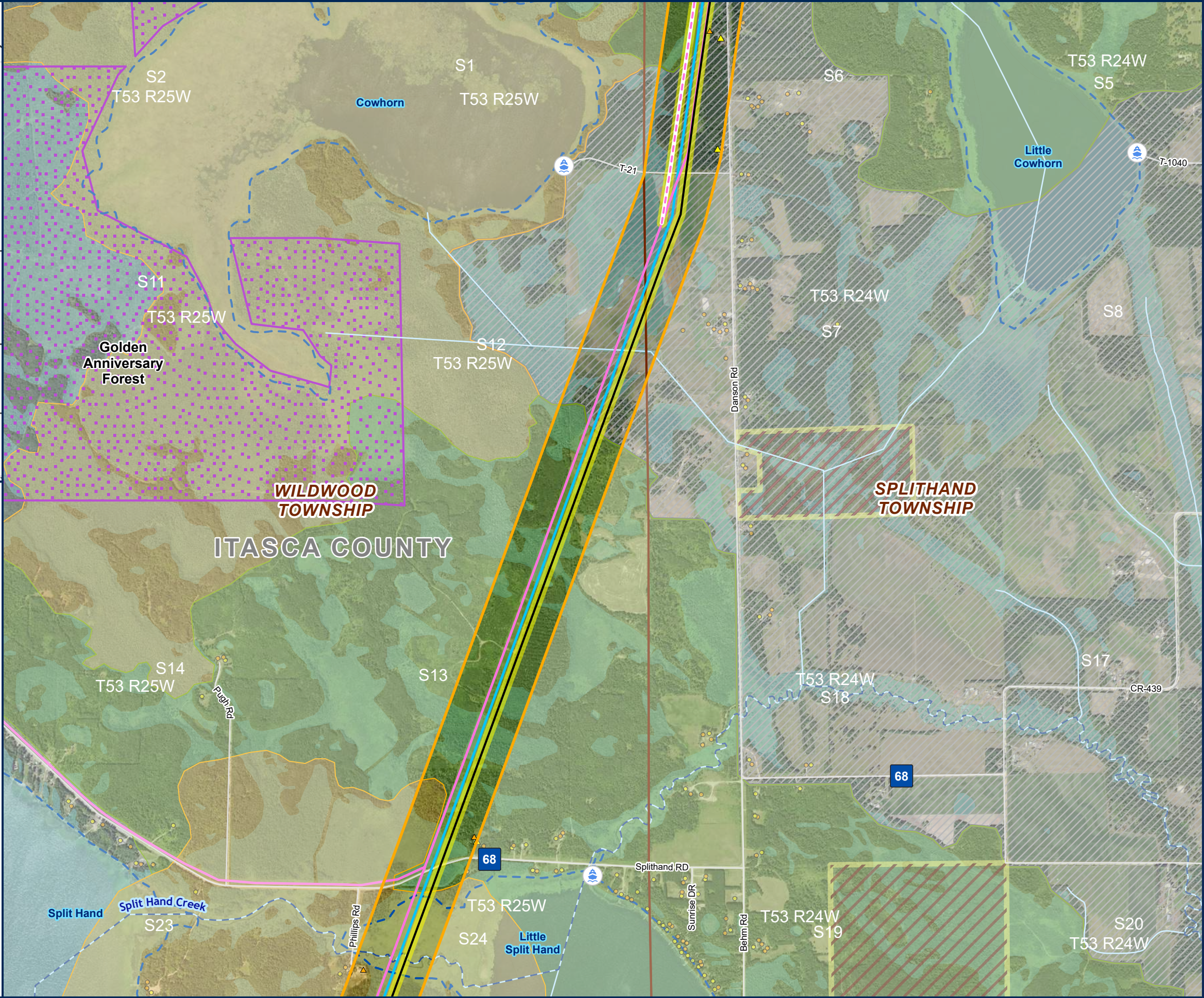
**DETAILED MAP  
APPENDIX J**  
PAGE 5 OF 64

-  PROPOSED ROUTE
-  PROPOSED RIGHT OF WAY
-  PROPOSED CENTERLINE
-  SHIFT 115KV CENTERLINE
- EXISTING TRANSMISSION
-  115 KV
-  230 KV
-  RESIDENTIAL STRUCTURE IN ROUTE
-  NON-RESIDENTIAL STRUCTURE IN ROUTE
-  NON-RESIDENTIAL STRUCTURE
-  RESIDENTIAL STRUCTURE
-  GRAVEL PIT
-  ROAD
-  SCENIC BYWAYS
-  WATER ACCESS SITE
-  COUNTY BOUNDARY
-  TOWNSHIP BOUNDARY
-  STATE FOREST LAND
-  PRIVATE COMMERCIAL FOREST
-  MN WETLAND
-  PUBLIC WATER BASIN
-  PUBLIC WATER WATERCOURSE
-  DNR STREAM/RIVER
- MBS SITE
-  HIGH
-  MODERATE
-  BELOW



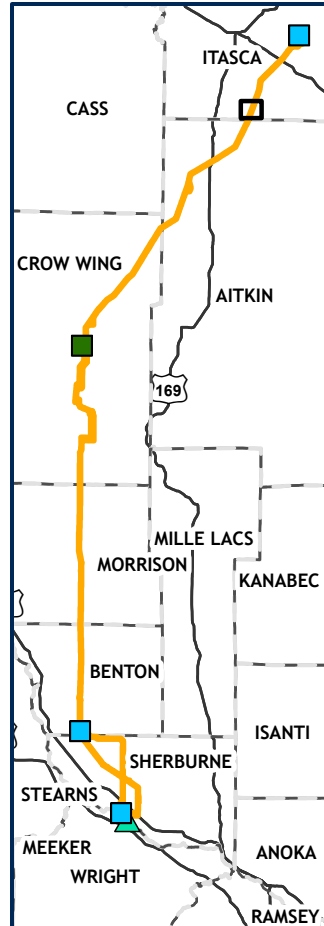
**Northland Reliability Project**



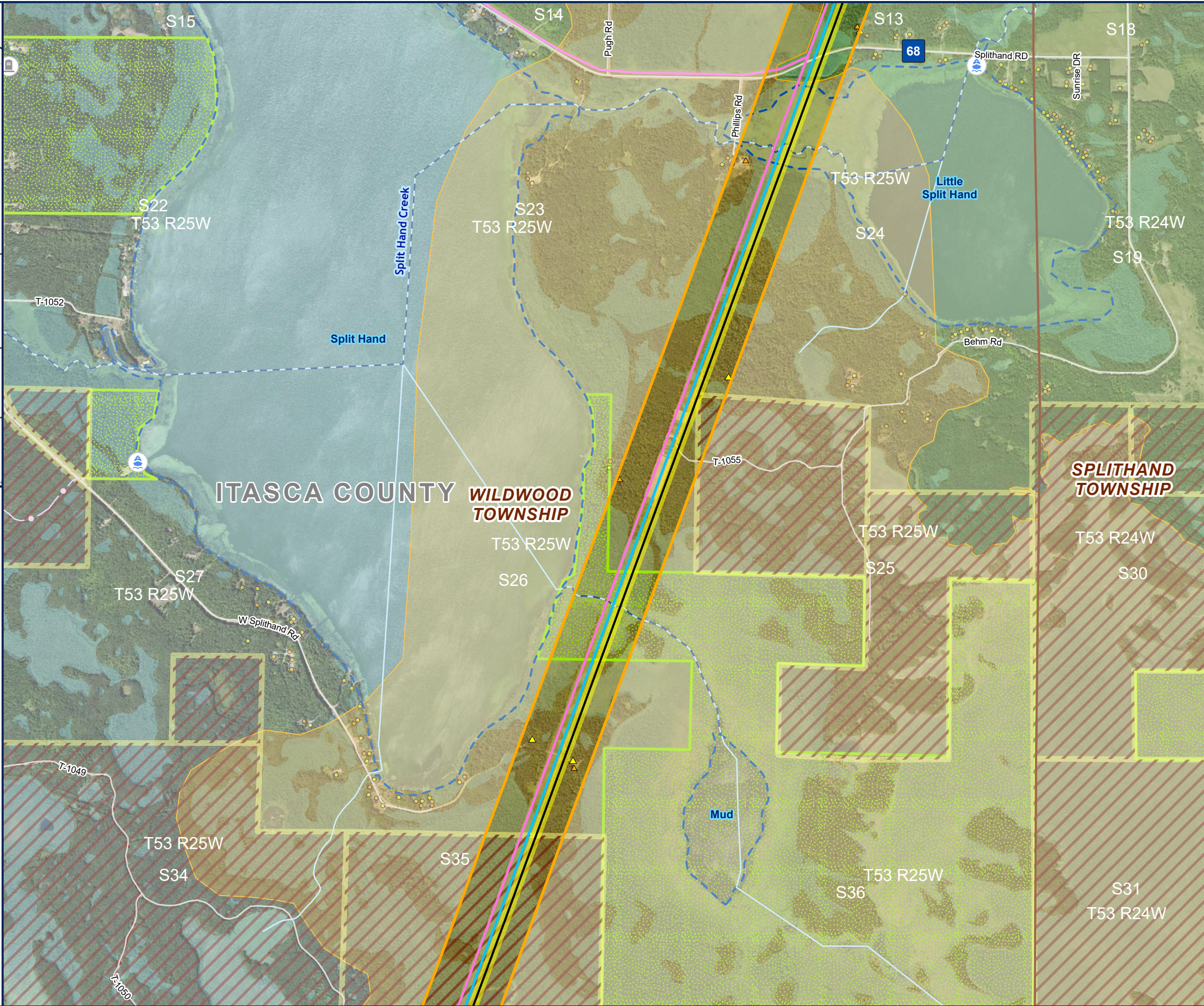




Path: \\mspe-gis-file\GISProj\GISProj\10348886\_NRP\7\_2\_WIP\map\_docs\PRO\_projects\NRP\_Permit\_App\Appendix\NRP\_Permit\_App\_Appendix.aprx



**Northland Reliability Project**



**DETAILED MAP APPENDIX J**  
PAGE 6 OF 64

- PROPOSED ROUTE
- PROPOSED RIGHT OF WAY
- PROPOSED CENTERLINE
- EXISTING TRANSMISSION
  - 115 KV
  - 230 KV
- RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE IN ROUTE
- NON-RESIDENTIAL STRUCTURE
- RESIDENTIAL STRUCTURE
- GRAVEL PIT
- CEMETERY
- ROAD
- WATER ACCESS SITE
- COUNTY BOUNDARY
- TOWNSHIP BOUNDARY
- SNOWMOBILE TRAILS
- STATE PARK TRAILS
- OTHER STATE FOREST LAND
- PRIVATE COMMERCIAL FOREST
- MN WETLAND
- PUBLIC WATER BASIN
- PUBLIC WATER
- WATERCOURSE
- DNR STREAM/RIVER
- MBS SITE
  - HIGH
  - MODERATE

0 1,000 2,000 Ft