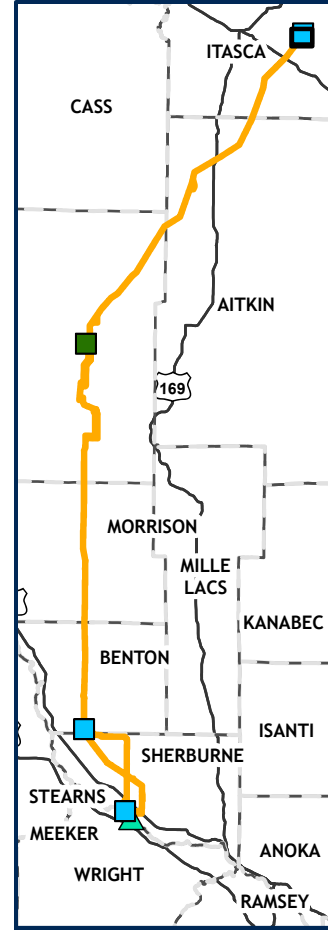
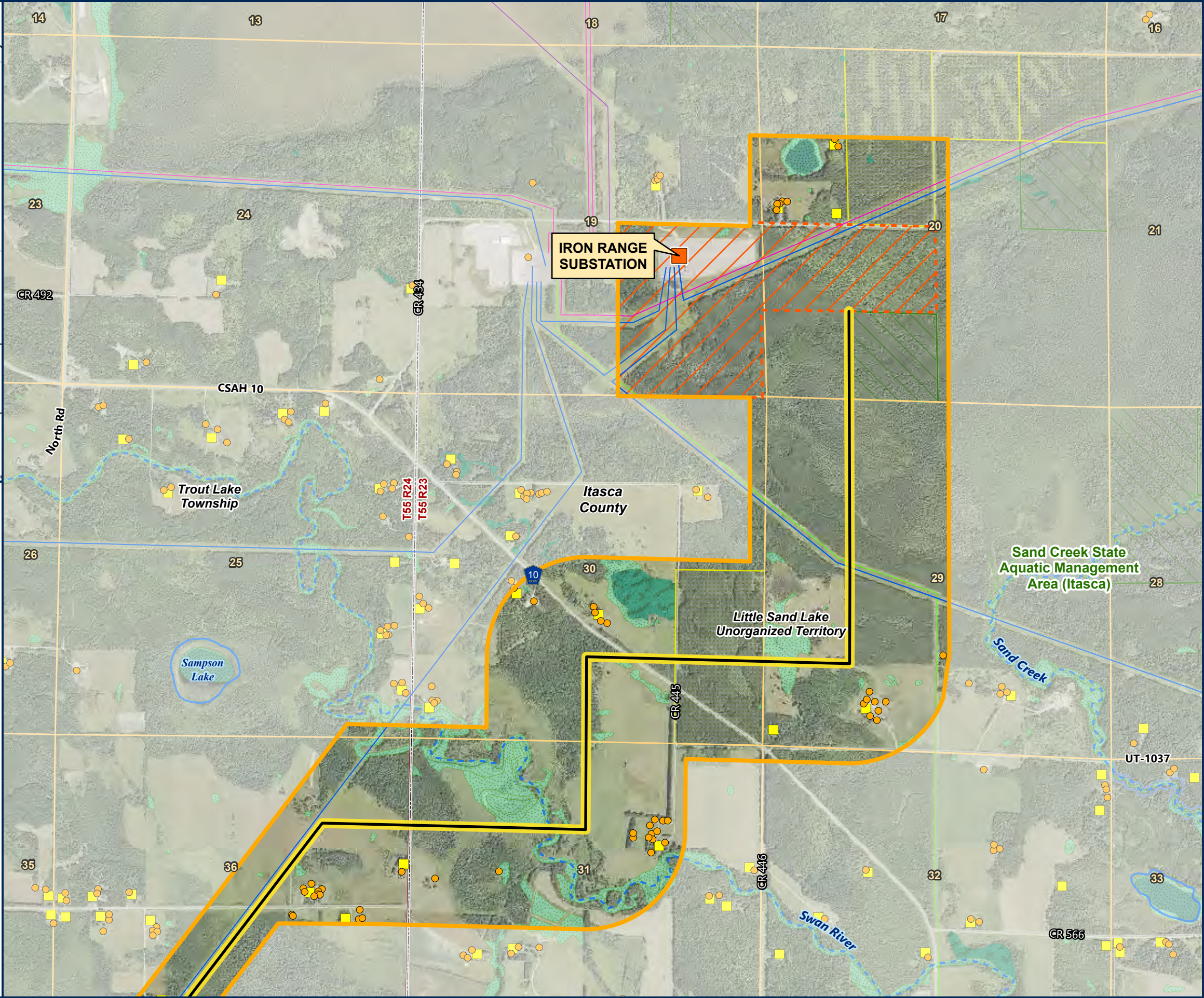


**Detailed Map
 Co-Location Maximization
 Route
 Page 1 of 64**

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



Northland Reliability Project



- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 69 KV
- 115 KV
- 230 KV
- 345 KV OR GREATER
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- IRON RANGE SUBSTATION
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY



**Detailed Map
 Co-Location Maximization
 Route
 Page 2 of 64**

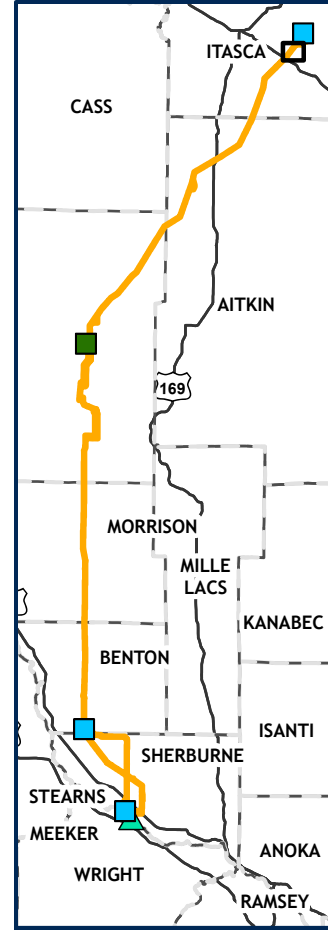
Path: \\mspe-gis-file\GISProj\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures\Sept19_2024\Letter.aprx
































- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 69 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

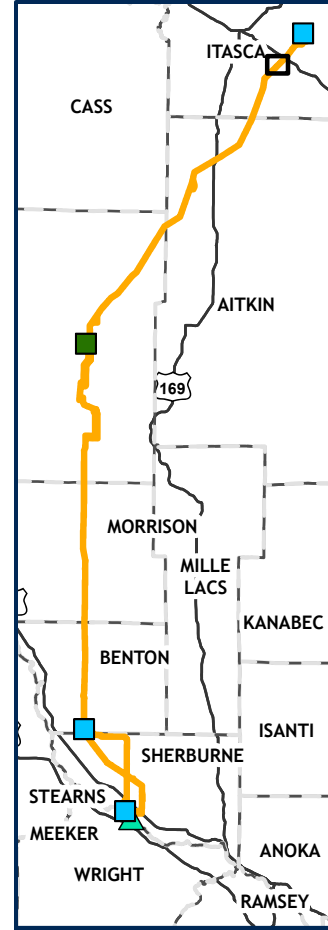


Northland Reliability Project



Detailed Map
Co-Location Maximization
Route
 Page 3 of 64

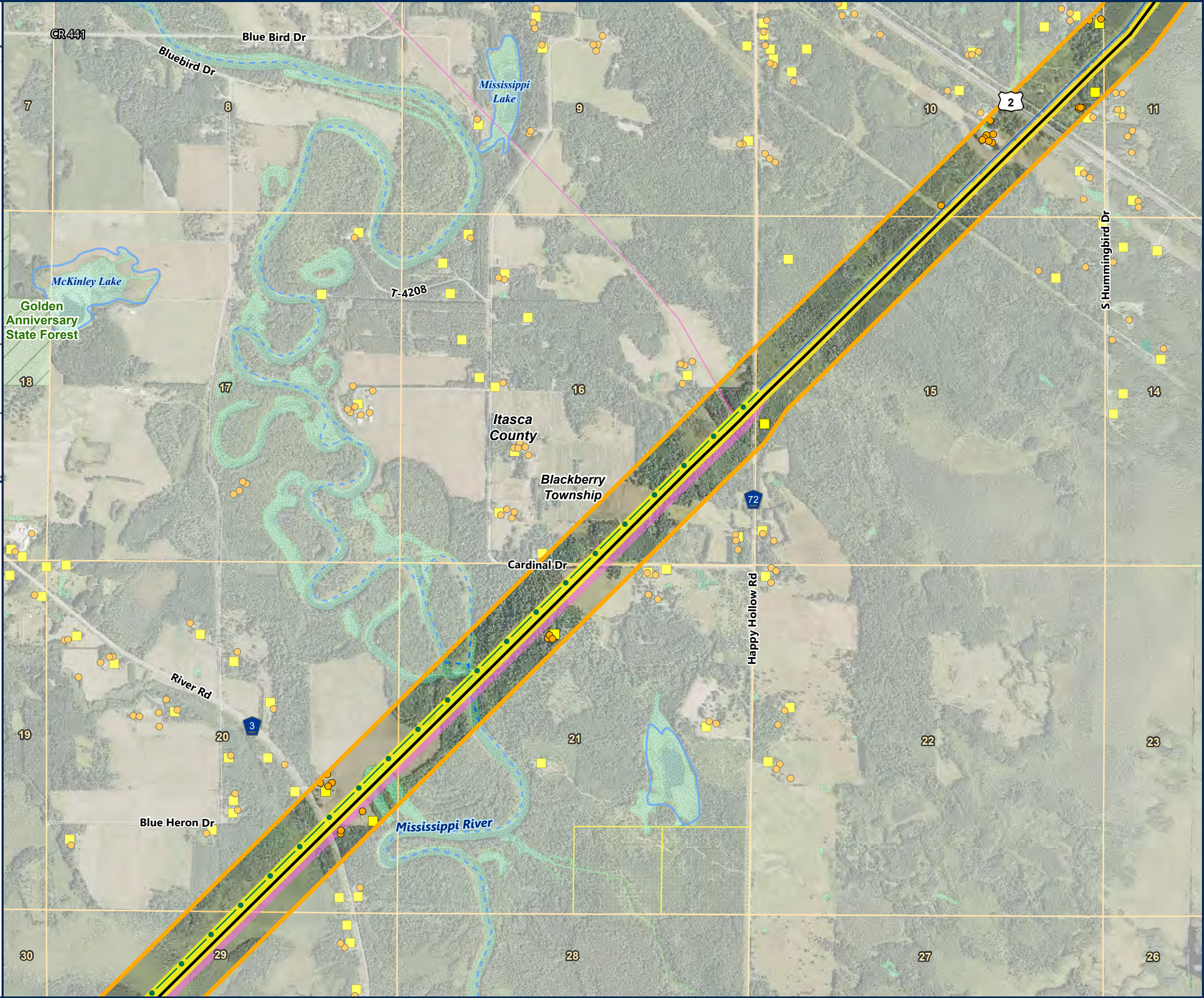
-  CO-LOCATION MAXIMIZATION ROUTE
-  CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
-  APPLICATION RIGHT OF WAY
-  CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
-  REPLACE GRE-BS LINE
-  REPLACE MR LINE
-  REBUILD EXISTING 69KV
-  SHIFT MR MODIFIED, 230KV
-  DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
-  SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
-  SHIFT 11 LINE, 115KV
-  SHIFT 92 LINE, 230KV
-  REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
-  69 KV
-  115 KV
-  230 KV
-  SUBSTATION SITING AREA
-  BIG OAKS SUBSTATION AREA
-  RESIDENCE
-  NOT A RESIDENCE
-  PWI WATERCOURSE
-  PWI WATERBODY
-  NON-FORESTED WETLAND
-  FORESTED WETLAND
-  WILDLIFE MANAGEMENT AREA
-  STATE CONSERVATION EASEMENT
-  FEDERAL CONSERVATION EASEMENT
-  AQUATIC MANAGEMENT AREA
-  STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY



Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx

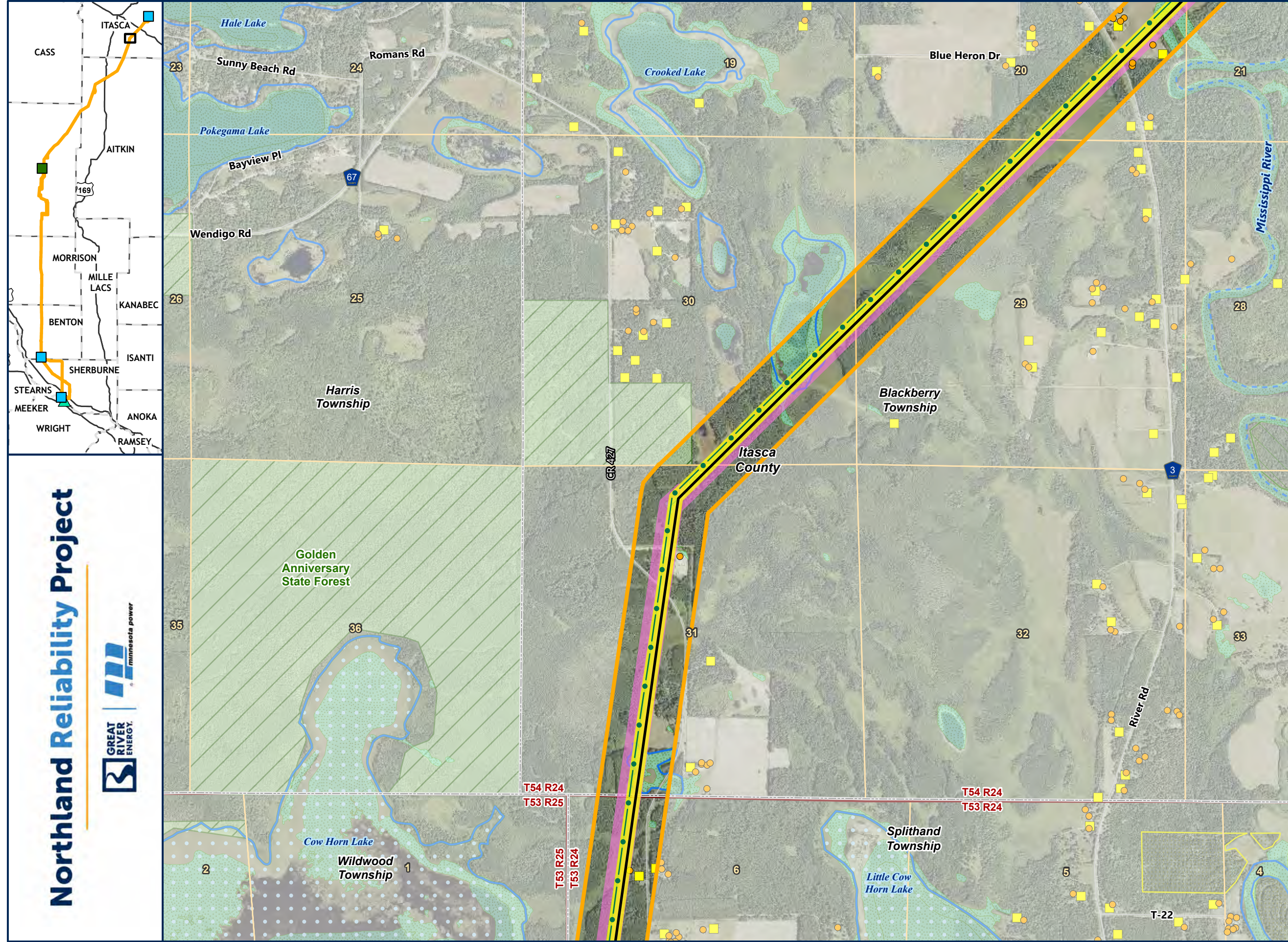
Northland Reliability Project





Detailed Map
Co-Location Maximization
Route
 Page 4 of 64

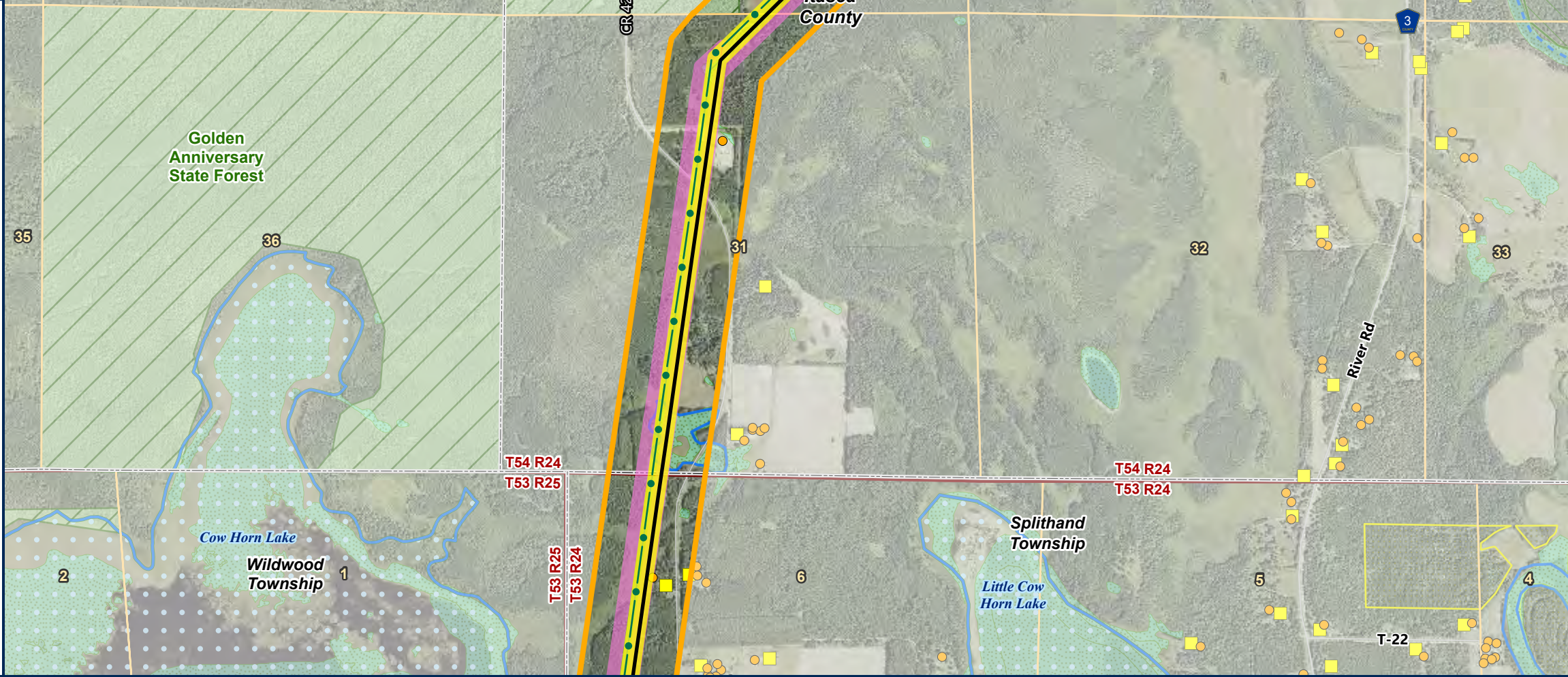
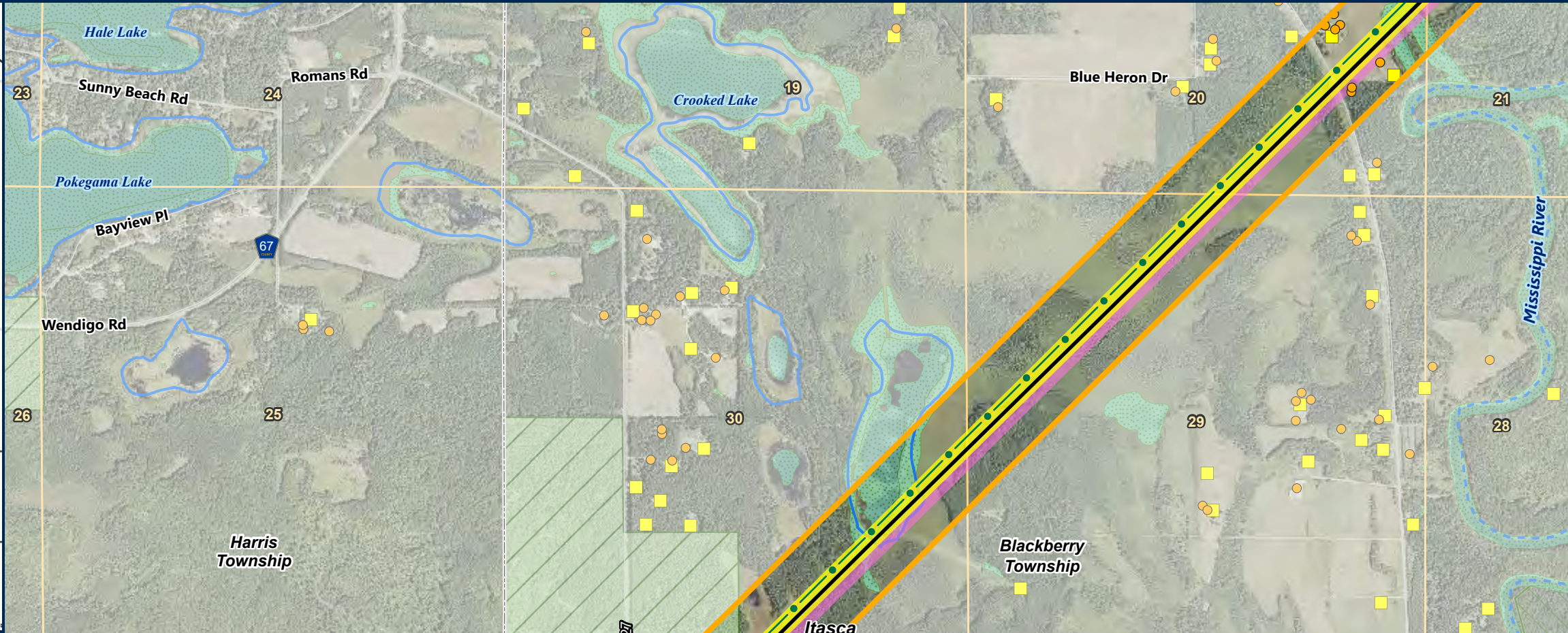
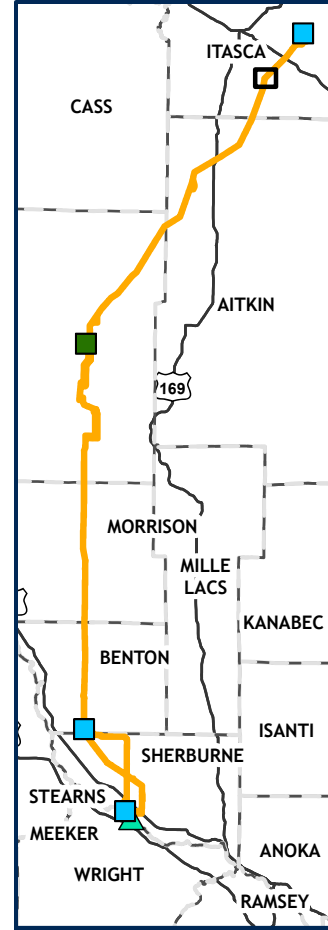
Path: \\mspe-gis-file\GISProj\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

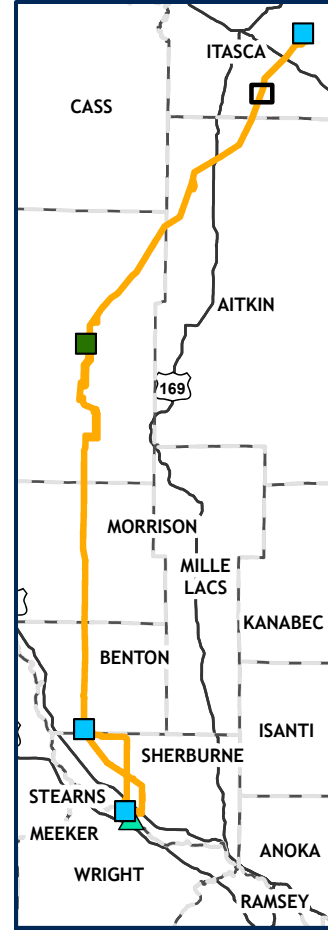


Northland Reliability Project

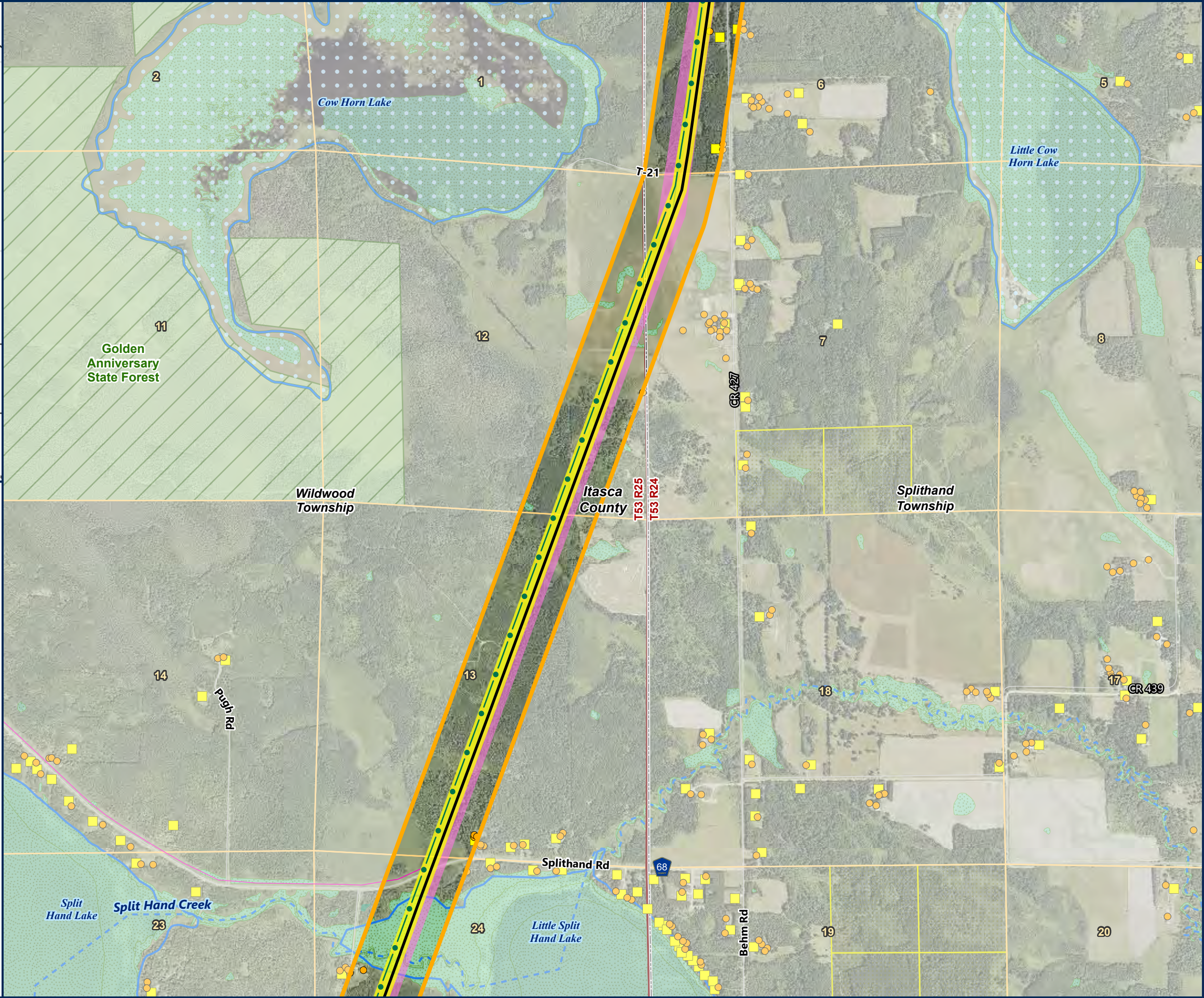


**Detailed Map
 Co-Location Maximization
 Route
 Page 5 of 64**

Path: \\mspe-gis-file\GISPro\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_AlternativeRoute_Figures\NRP_Figures_Sept19_2024\Letter.aprx



Northland Reliability Project

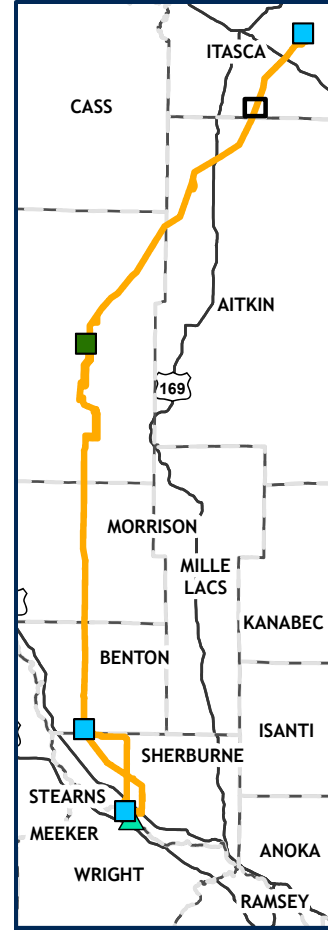


- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

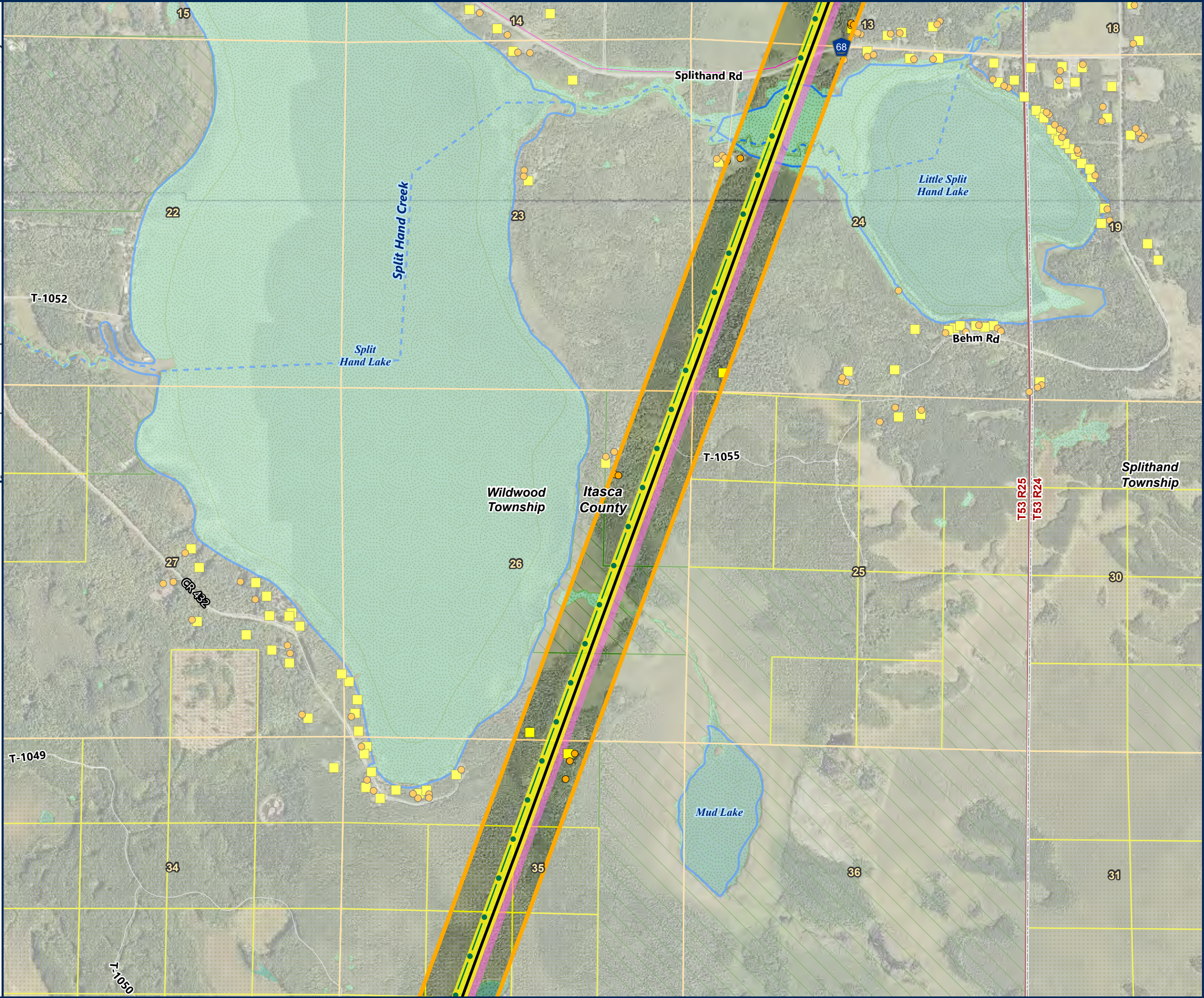


Detailed Map
Co-Location Maximization
Route
 Page 6 of 64

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



Northland Reliability Project

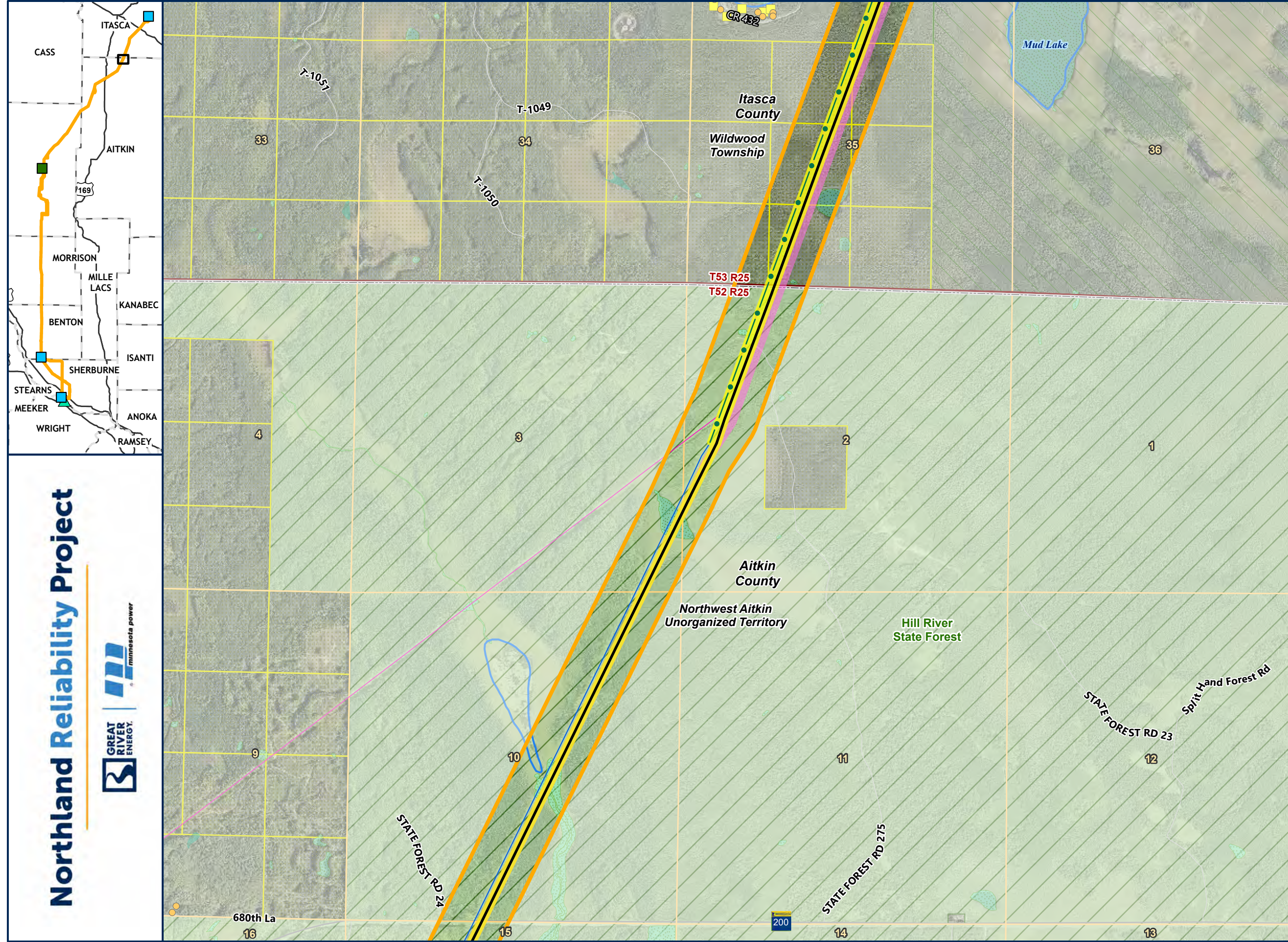


- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY



Detailed Map
Co-Location Maximization
Route
 Page 7 of 64

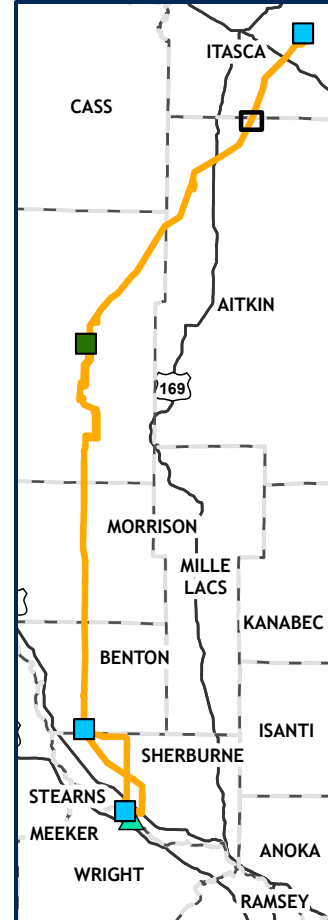
Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

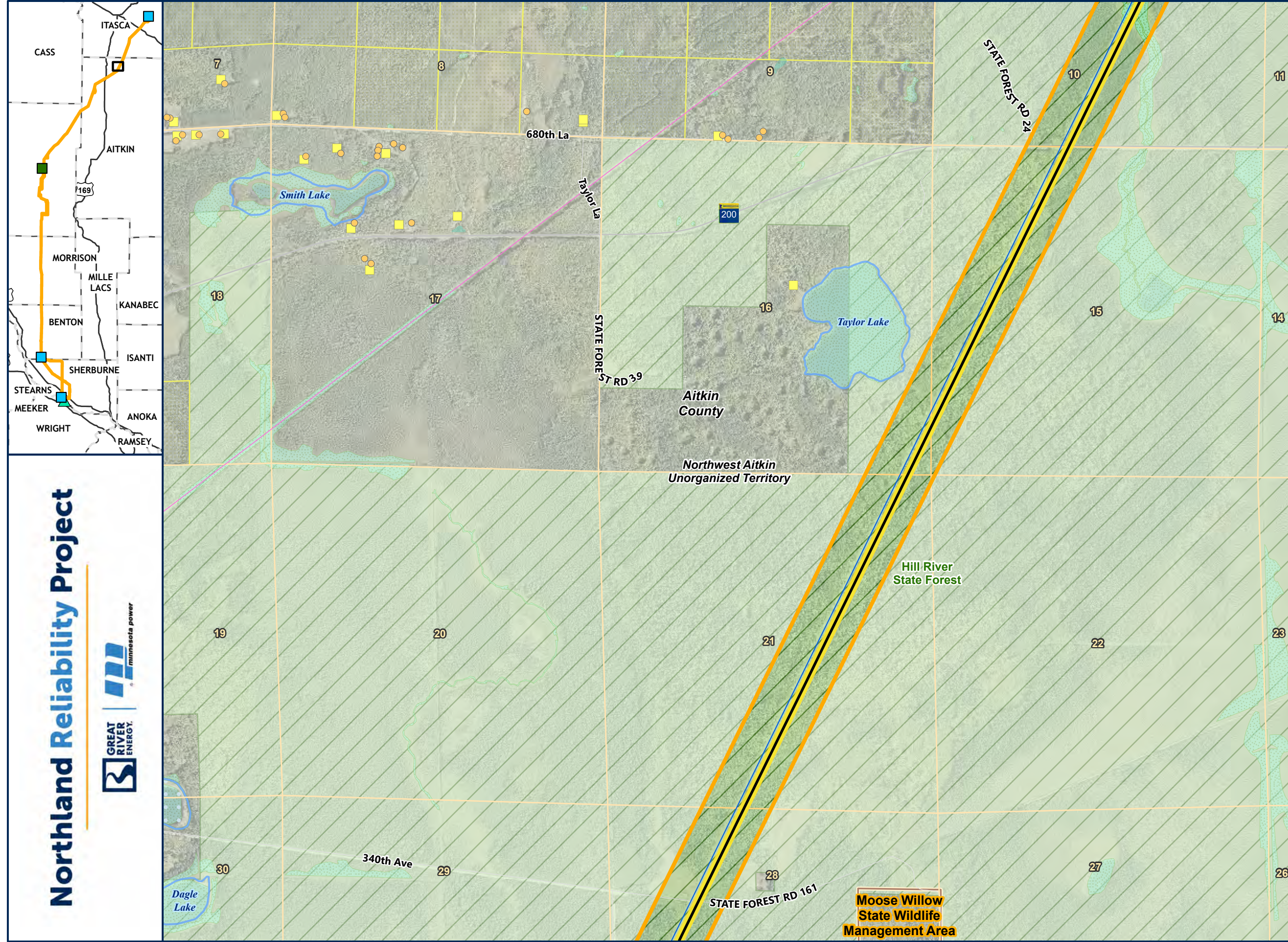


Northland Reliability Project



**Detailed Map
 Co-Location Maximization
 Route
 Page 8 of 64**

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

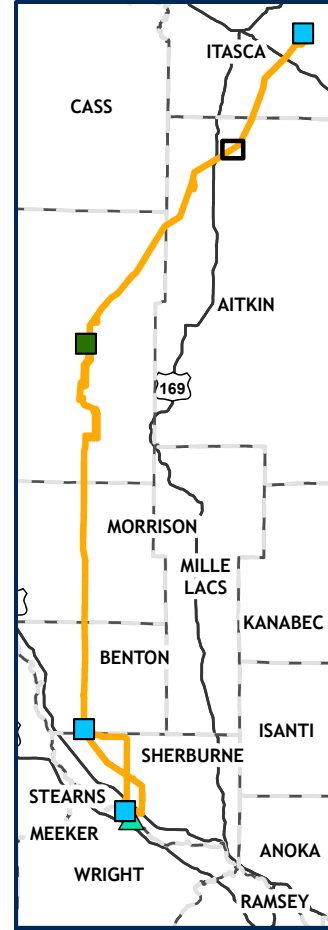


Northland Reliability Project

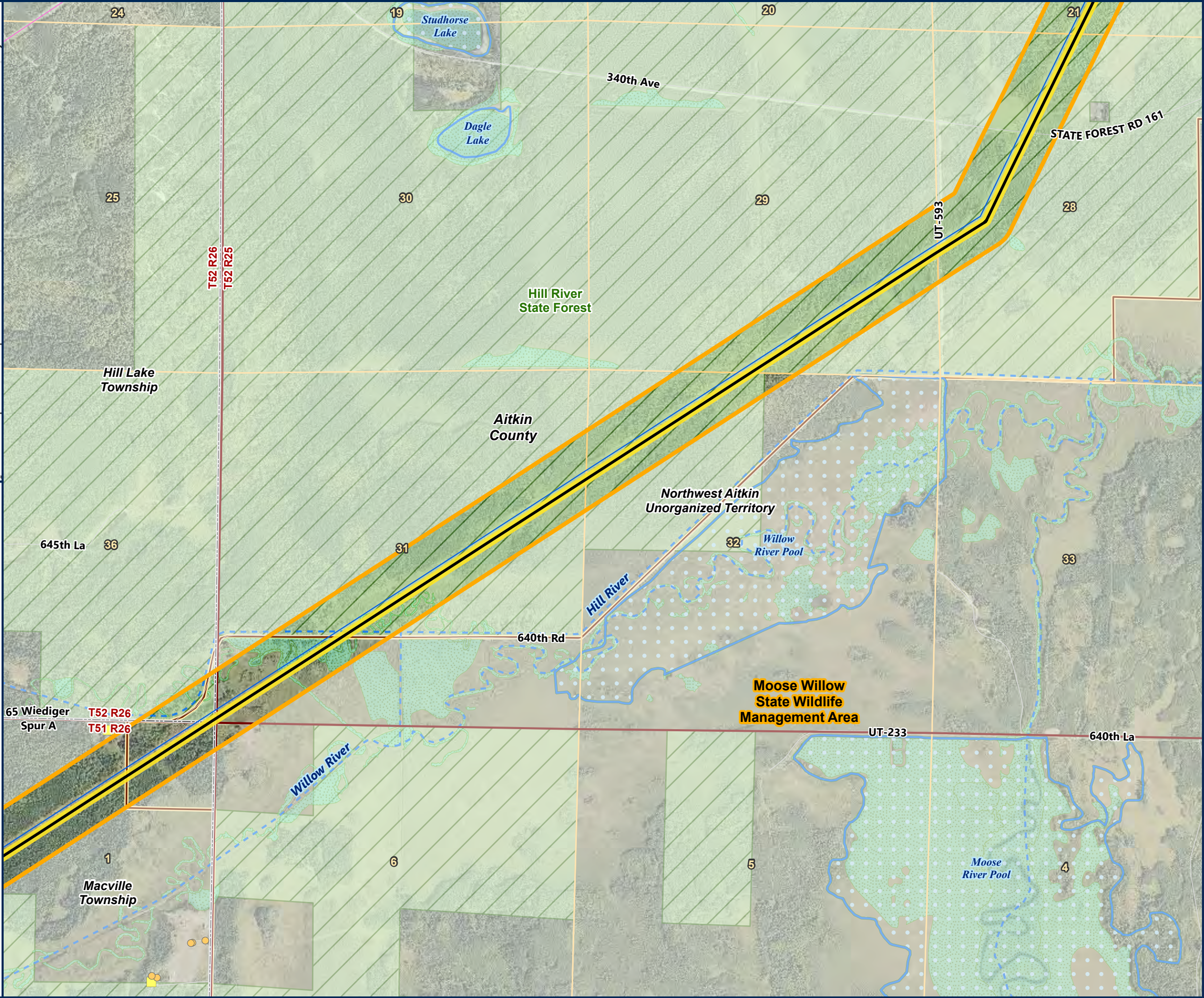


**Detailed Map
 Co-Location Maximization
 Route
 Page 9 of 64**

Path: \\mspe-gis-file\GISPro\GISPro\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



Northland Reliability Project

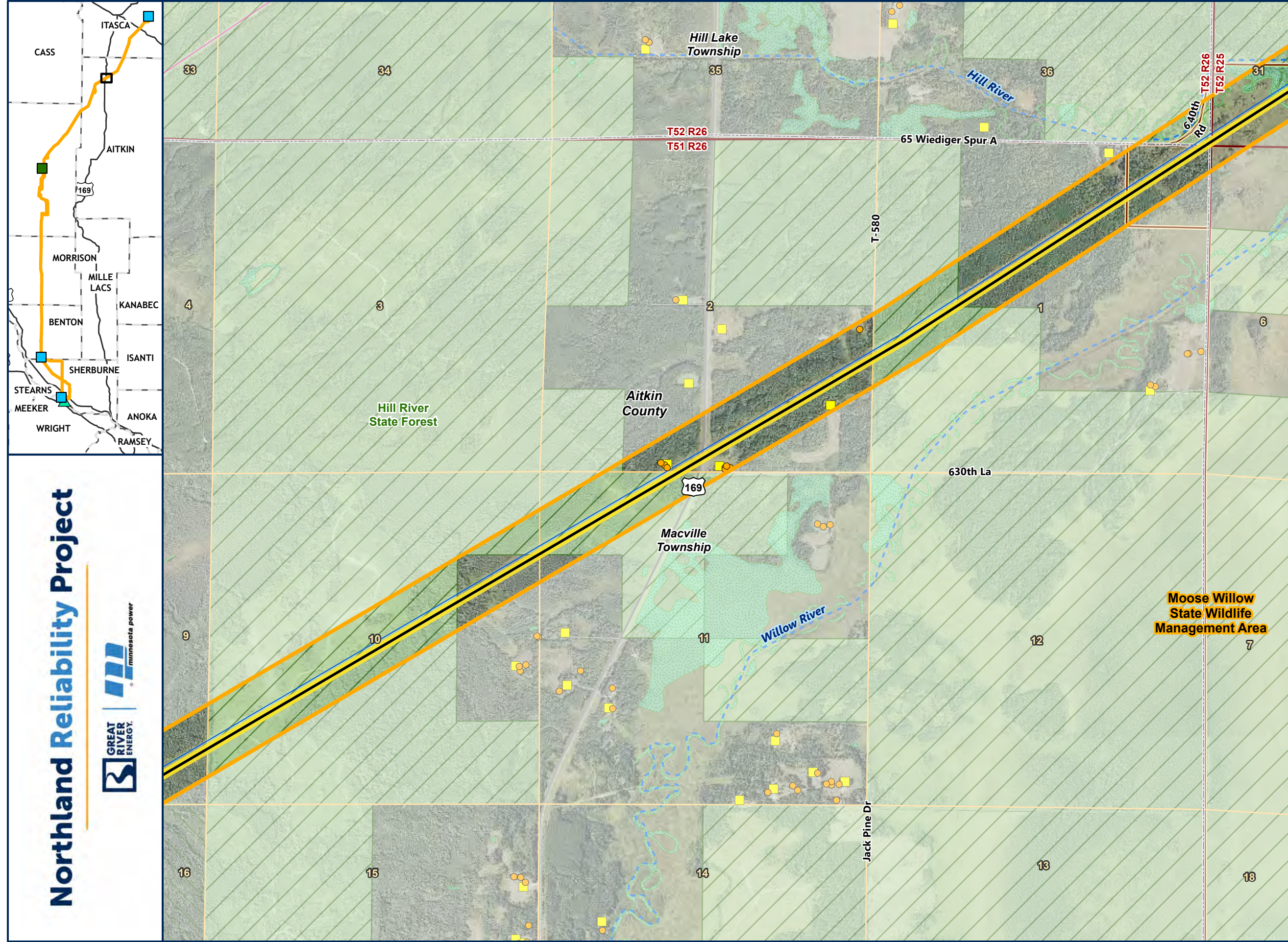


- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY



**Detailed Map
 Co-Location Maximization
 Route
 Page 10 of 64**

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

**Moose Willow
 State Wildlife
 Management Area**

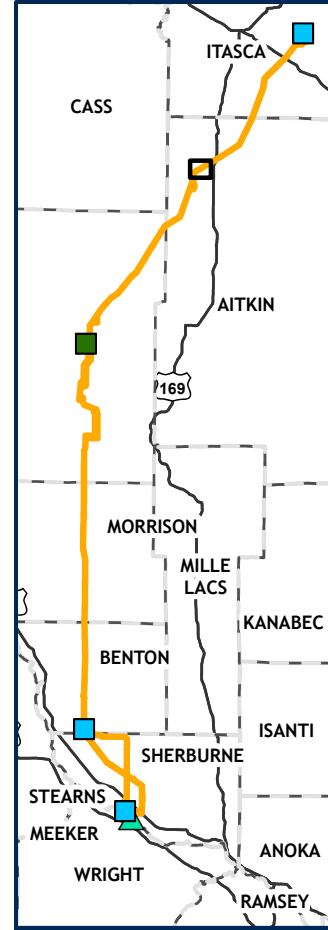
Northland Reliability Project

minnesota power

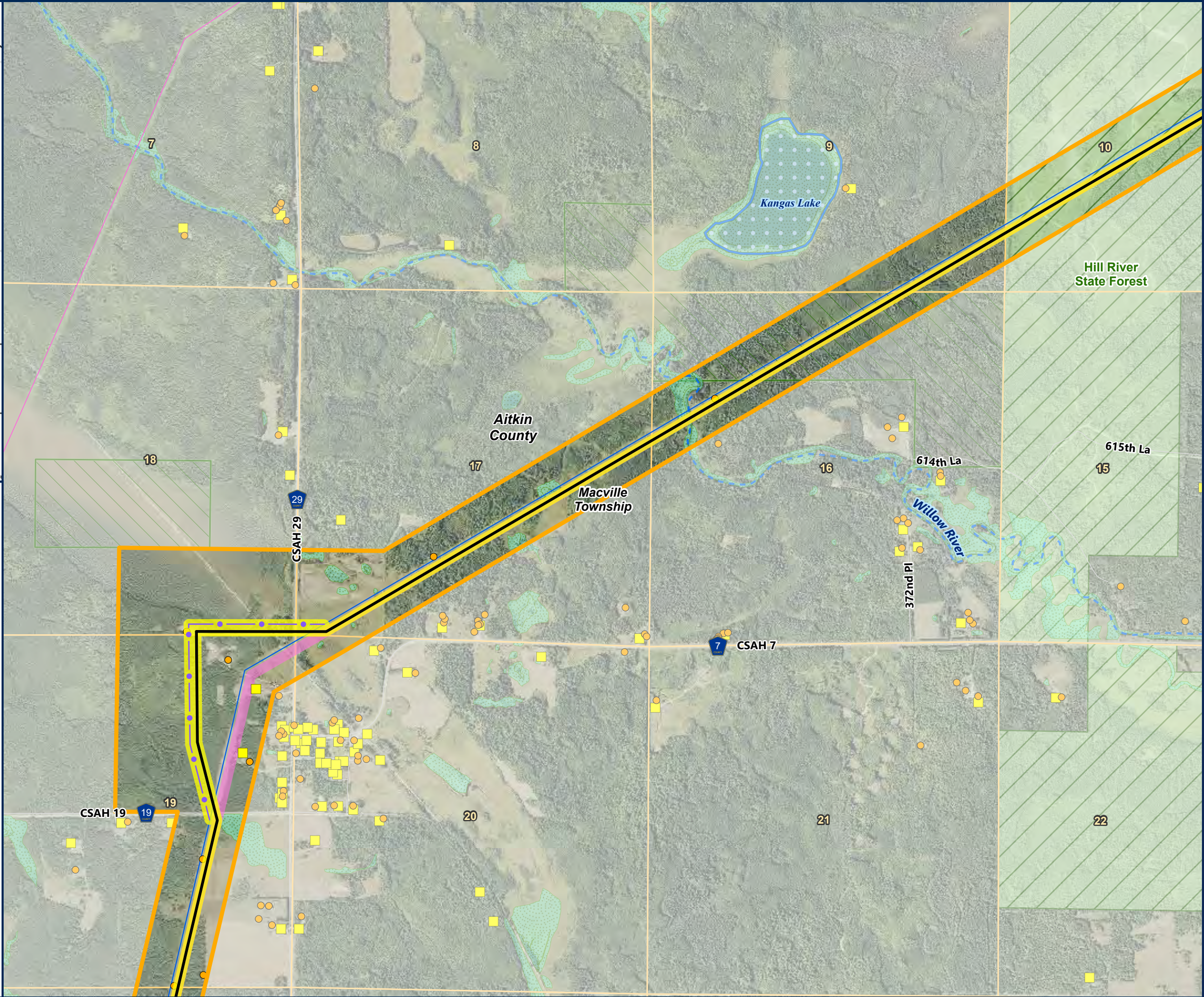


**Detailed Map
 Co-Location Maximization
 Route
 Page 11 of 64**

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



Northland Reliability Project

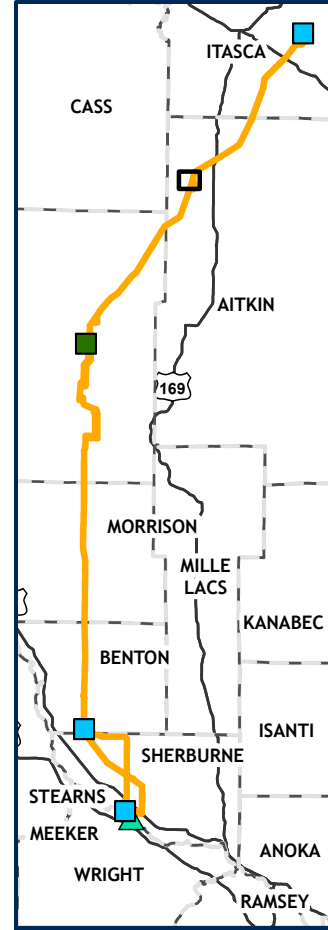


- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

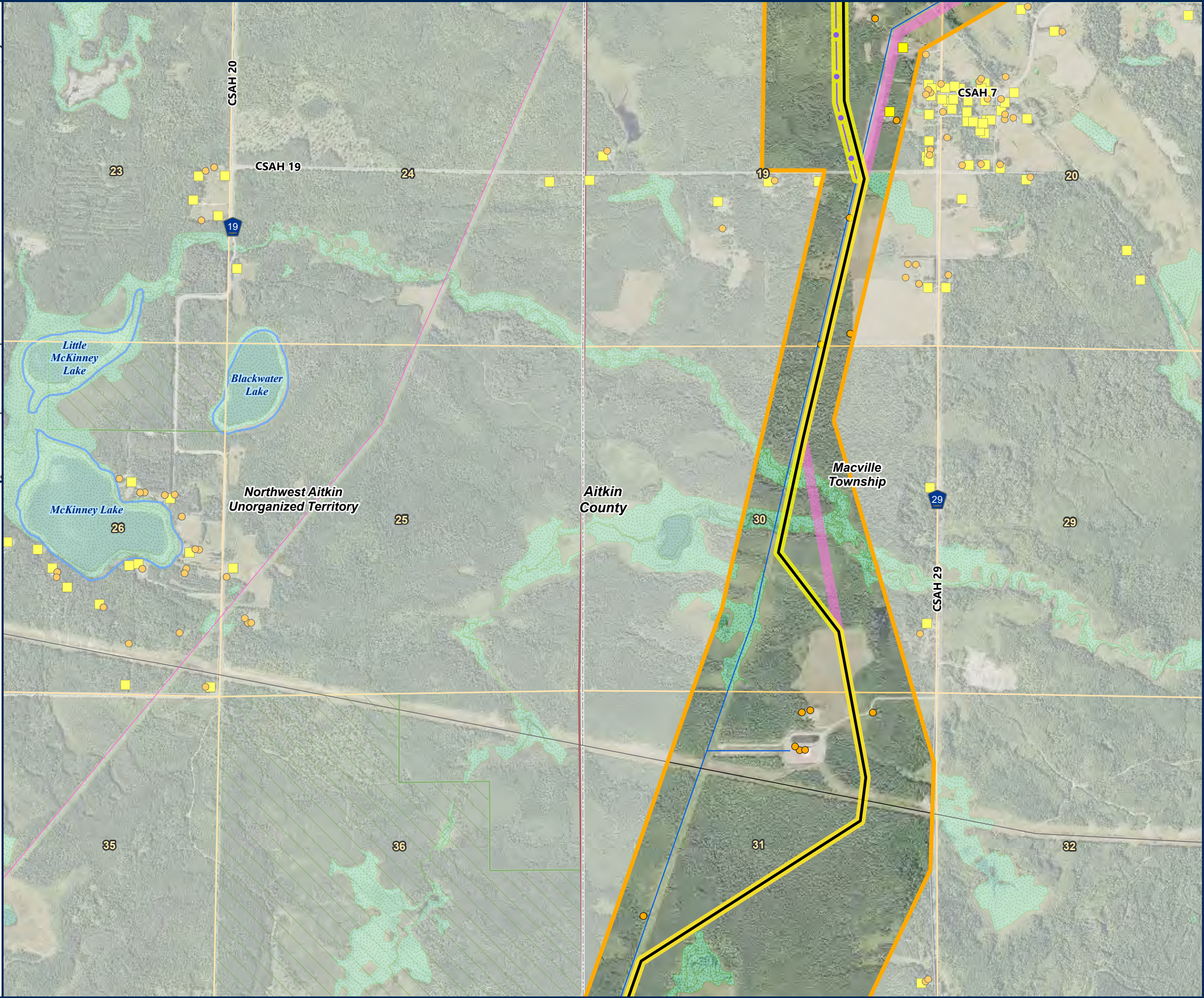


**Detailed Map
 Co-Location Maximization
 Route
 Page 12 of 64**

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



Northland Reliability Project

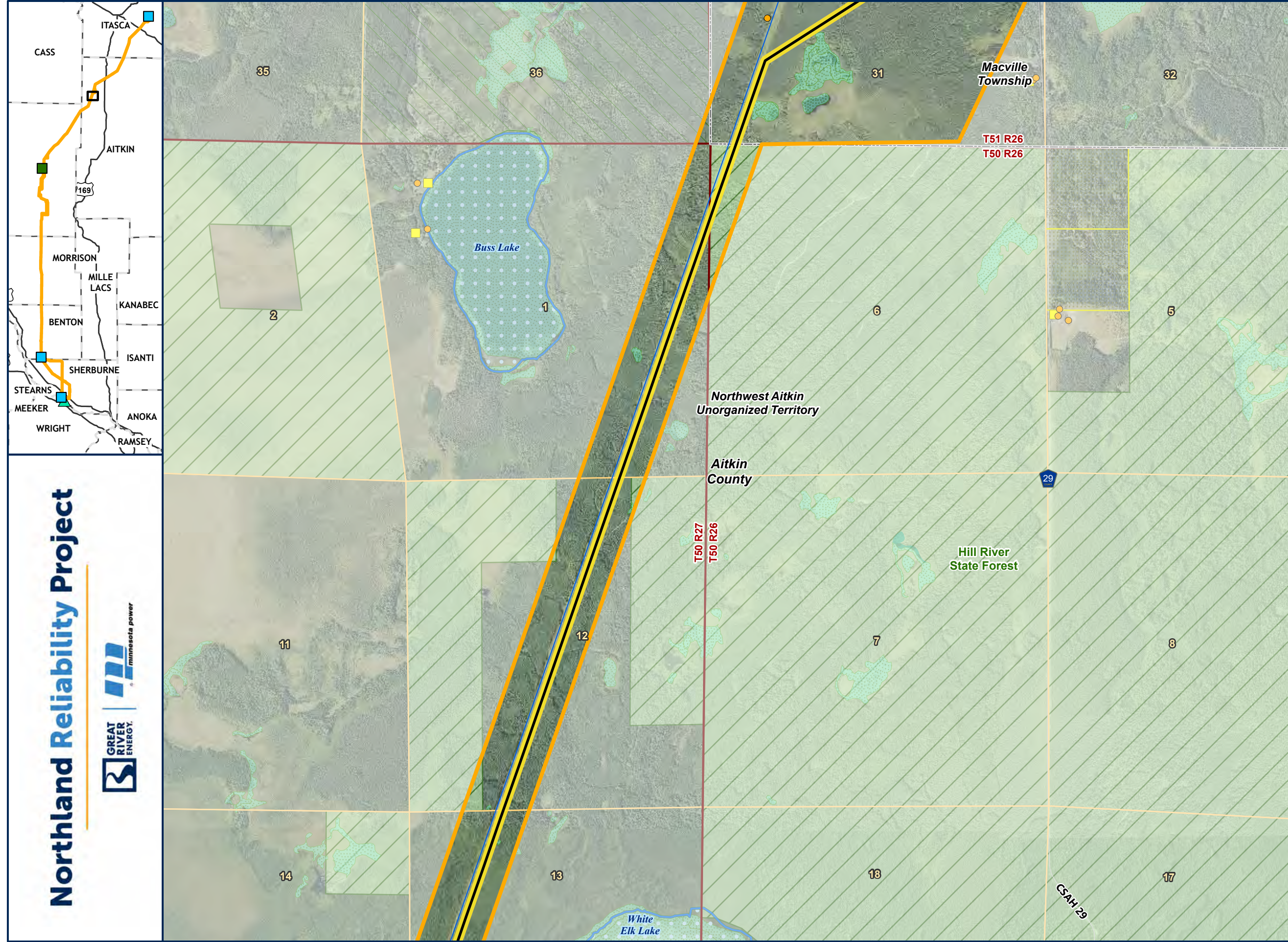


- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- 250 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY



**Detailed Map
 Co-Location Maximization
 Route
 Page 13 of 64**

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

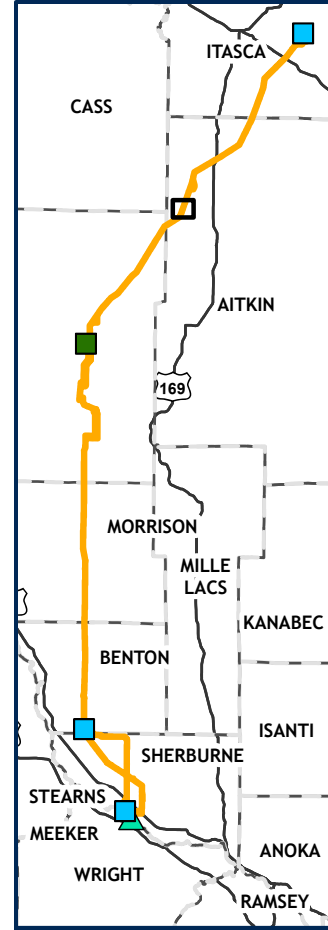


Northland Reliability Project

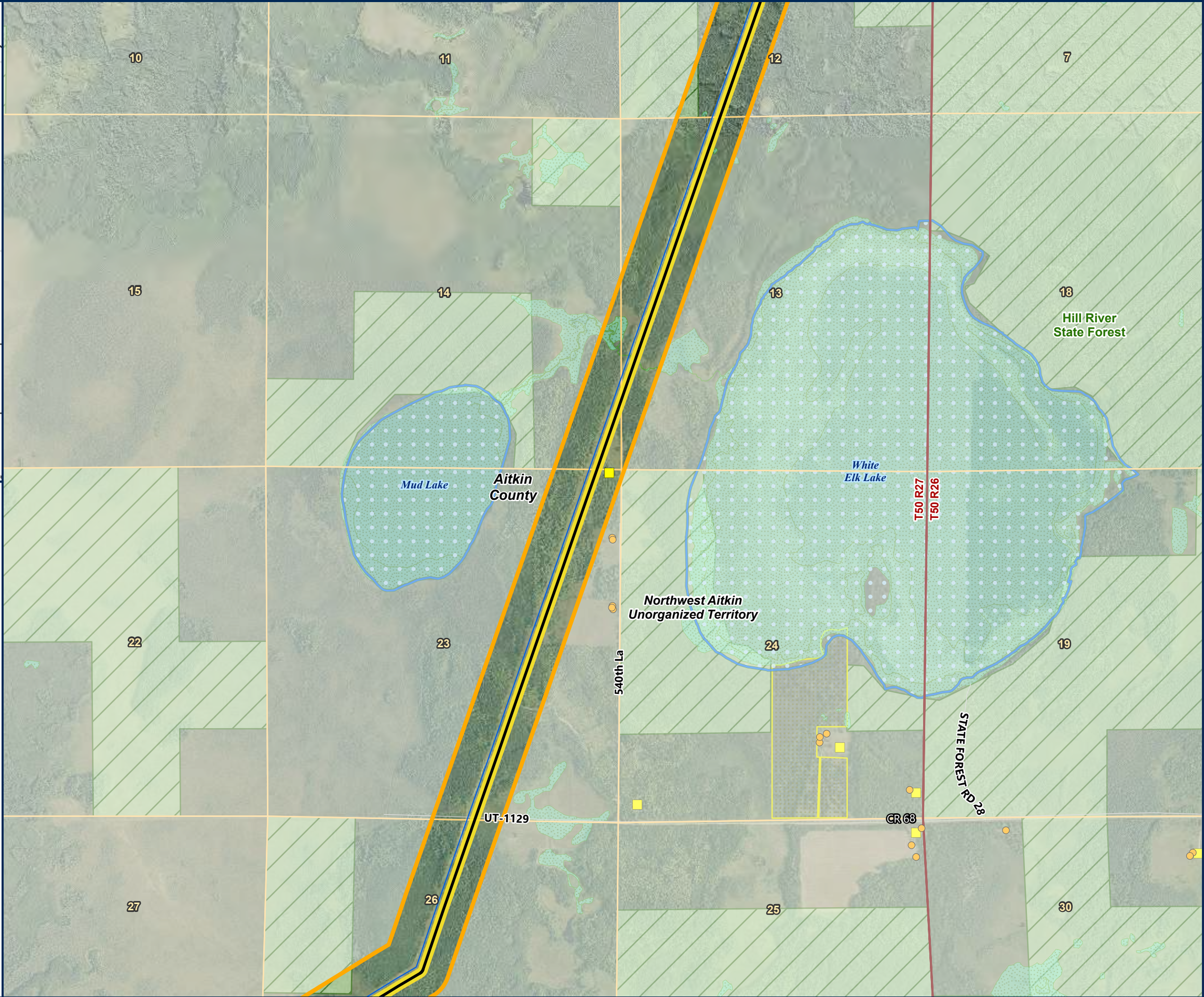


**Detailed Map
 Co-Location Maximization
 Route
 Page 14 of 64**

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_AlternativeRoute_Figures\NRP_Figures_Sept19_2024\Letter.aprx



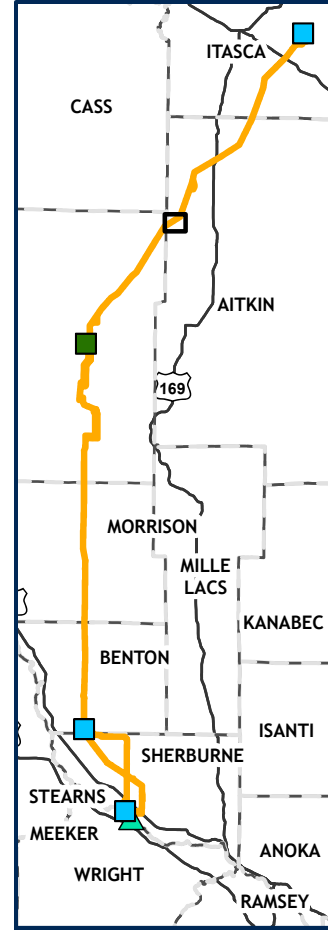
Northland Reliability Project



- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

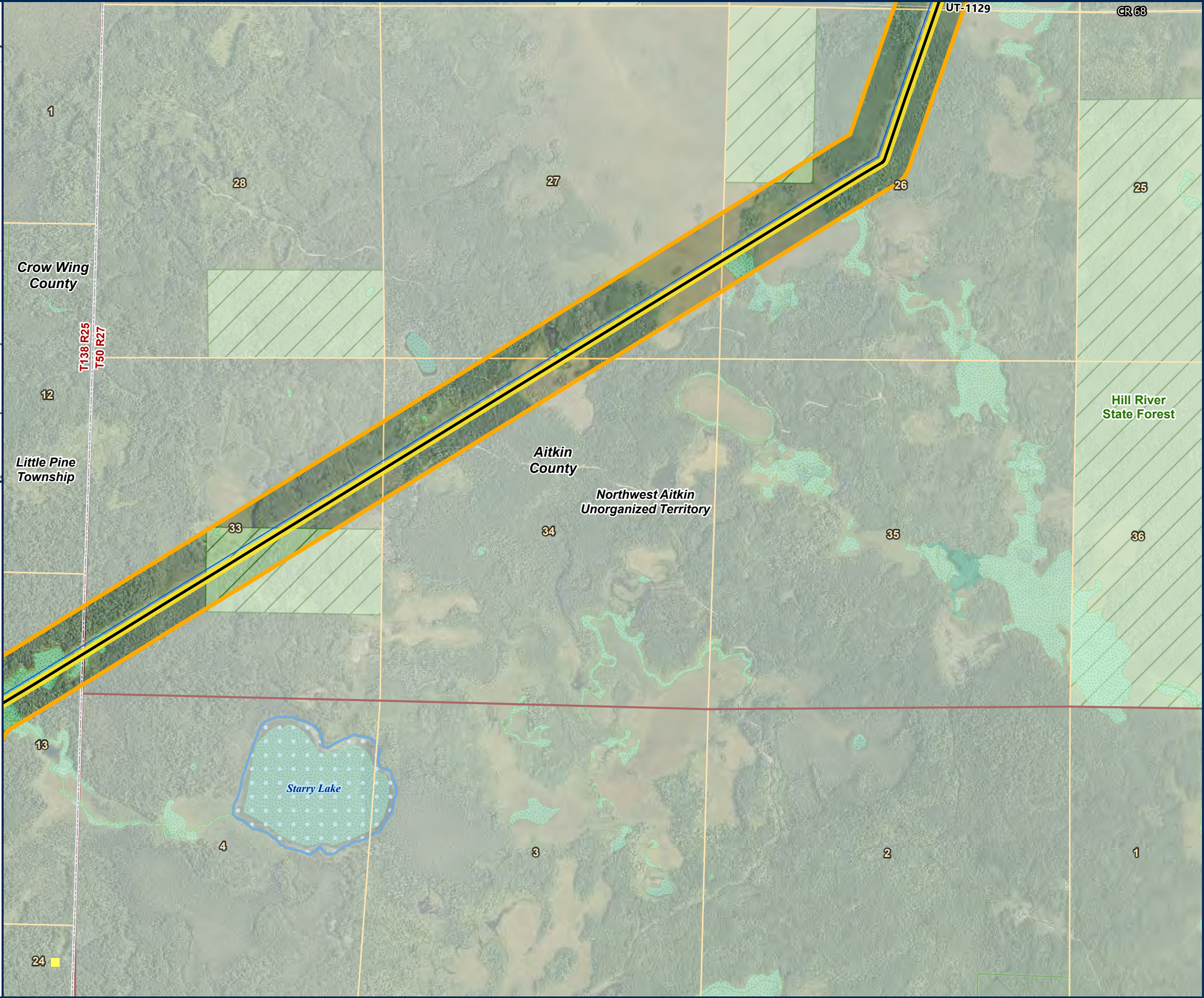


Path: \\mspe-gis-file\GISProj\GISProj\GISProj\10348886_NRP\7.2_WIP\map_docs\PRO_projects\NRP_AlternativeRoute_Figures\NRP_Figures_Sep19_2024Letter.aprx




































Northland Reliability Project





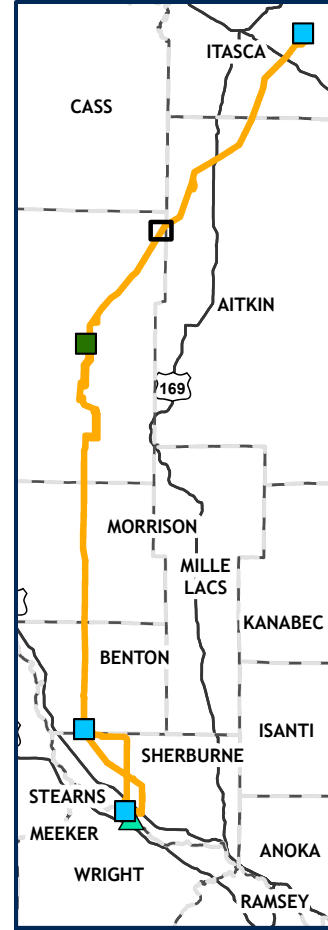
Detailed Map Co-Location Maximization Route Page 15 of 64

-  CO-LOCATION MAXIMIZATION ROUTE
-  CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
-  APPLICATION RIGHT OF WAY
-  CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
-  REPLACE GRE-BS LINE
-  REPLACE MR LINE
-  REBUILD EXISTING 69KV
-  SHIFT MR MODIFIED, 230KV
-  DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
-  SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
-  SHIFT 11 LINE, 115KV
-  SHIFT 92 LINE, 230KV
-  REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
-  EXISTING TRANSMISSION LINE
-  230 KV
-  SUBSTATION SITING AREA
-  BIG OAKS SUBSTATION AREA
-  RESIDENCE
-  NOT A RESIDENCE
-  PWI WATERCOURSE
-  PWI WATERBODY
-  NON-FORESTED WETLAND
-  FORESTED WETLAND
-  WILDLIFE MANAGEMENT AREA
-  STATE CONSERVATION EASEMENT
-  FEDERAL CONSERVATION EASEMENT
-  AQUATIC MANAGEMENT AREA
-  STATE FOREST
-  STATE PARK
-  OTHER DNR LAND
-  COUNTY BOUNDARY

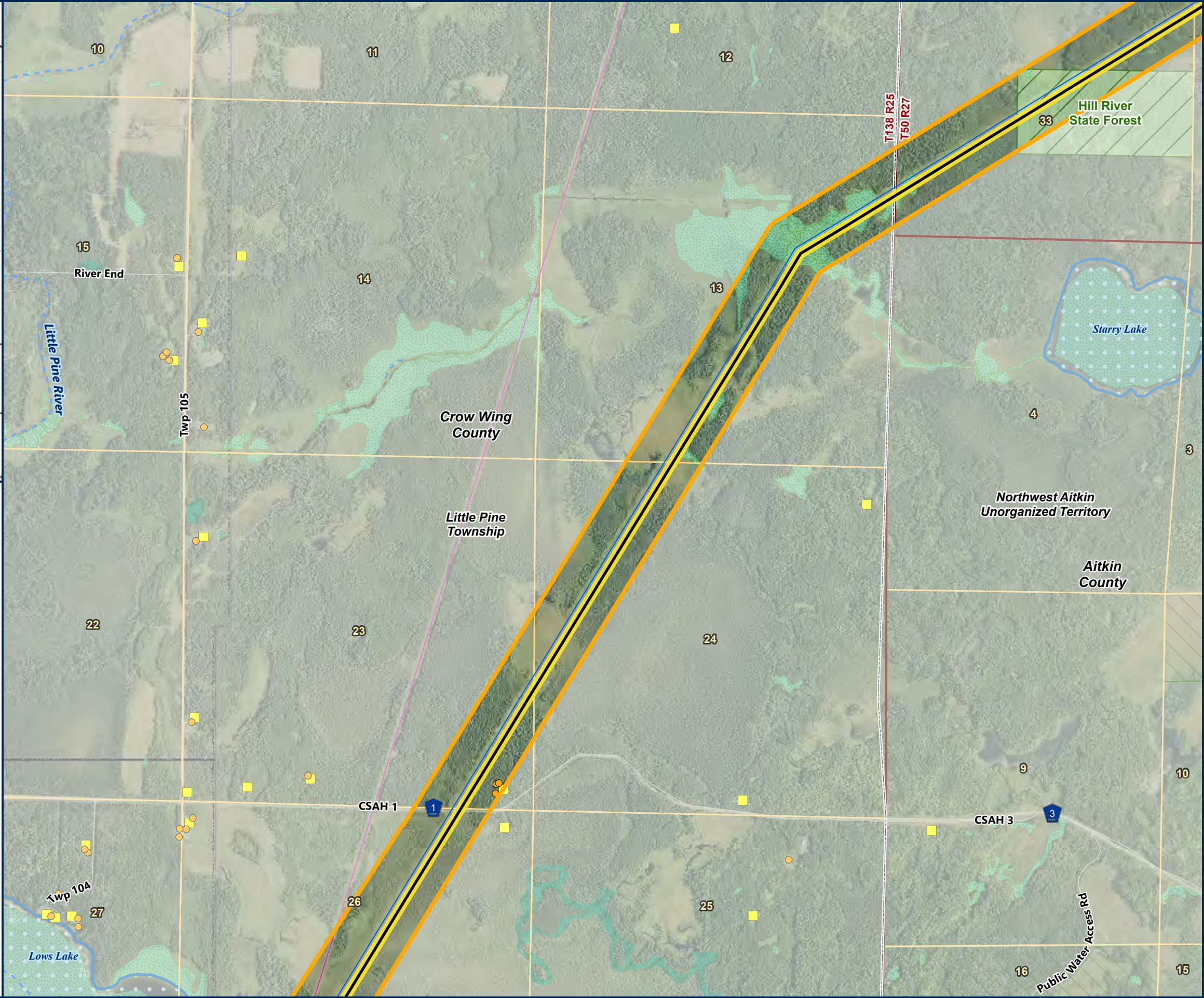



Detailed Map
Co-Location Maximization
Route
 Page 16 of 64

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



Northland Reliability Project

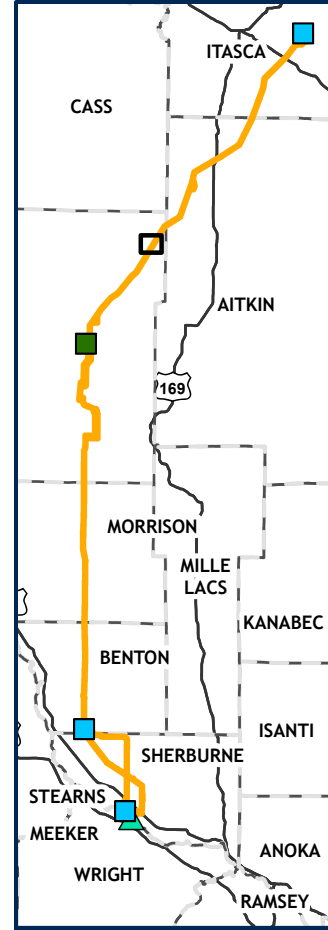


- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

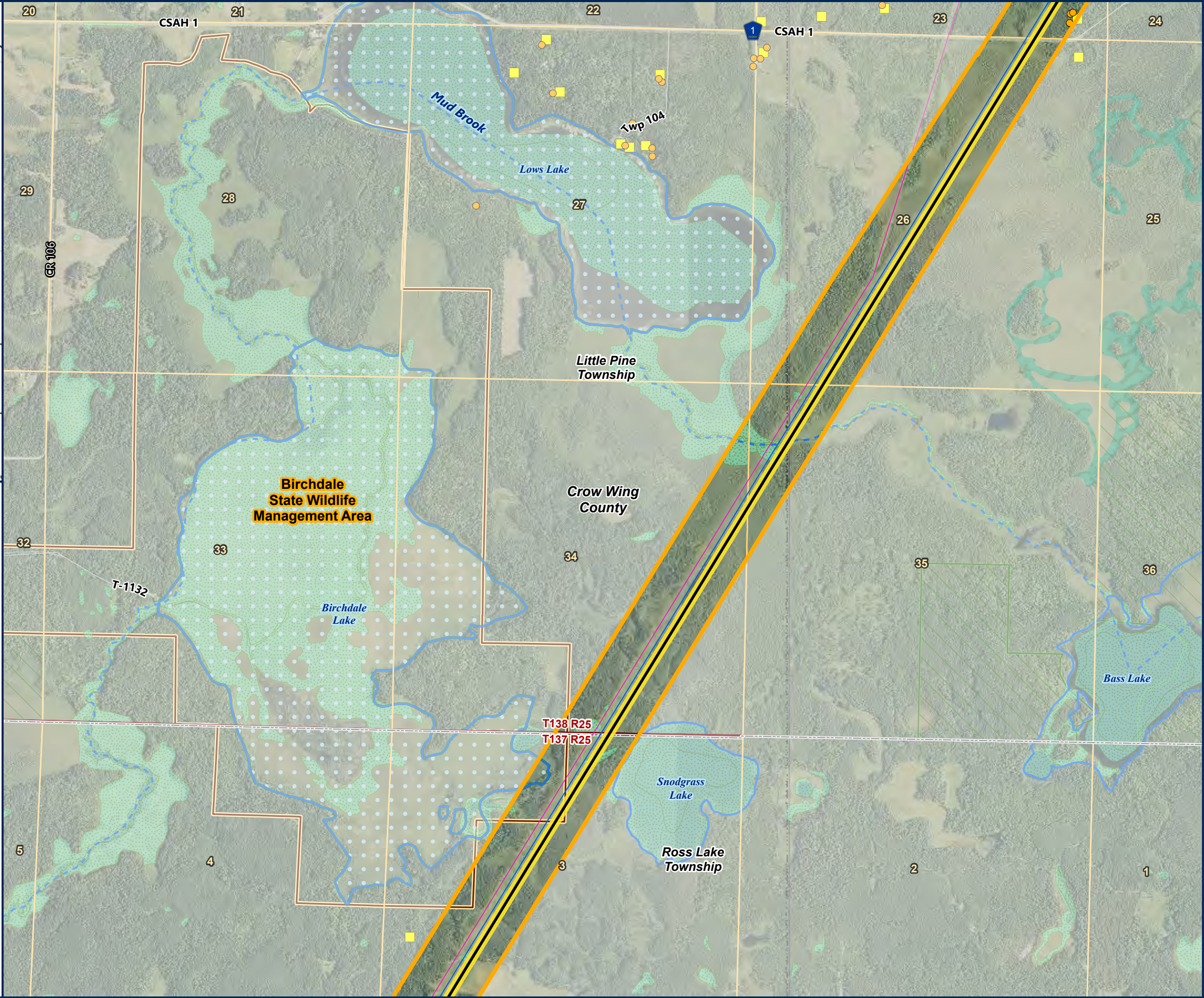


**Detailed Map
 Co-Location Maximization
 Route
 Page 17 of 64**

Path: \\mspe-gis-file\GISProj\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_Figures\NRP_Figures_Sept19_2024\Letter.aprx



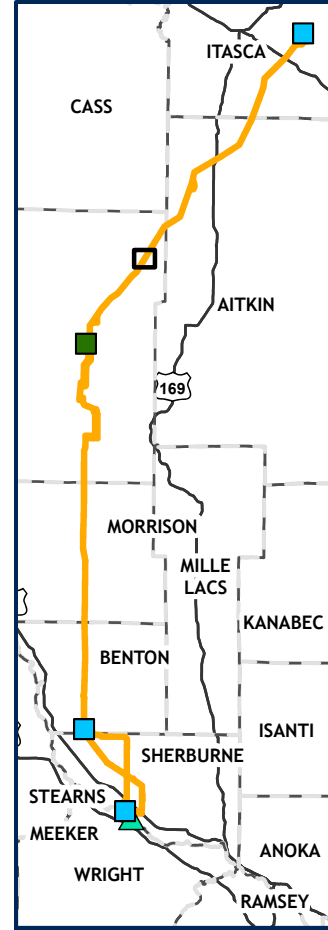
Northland Reliability Project



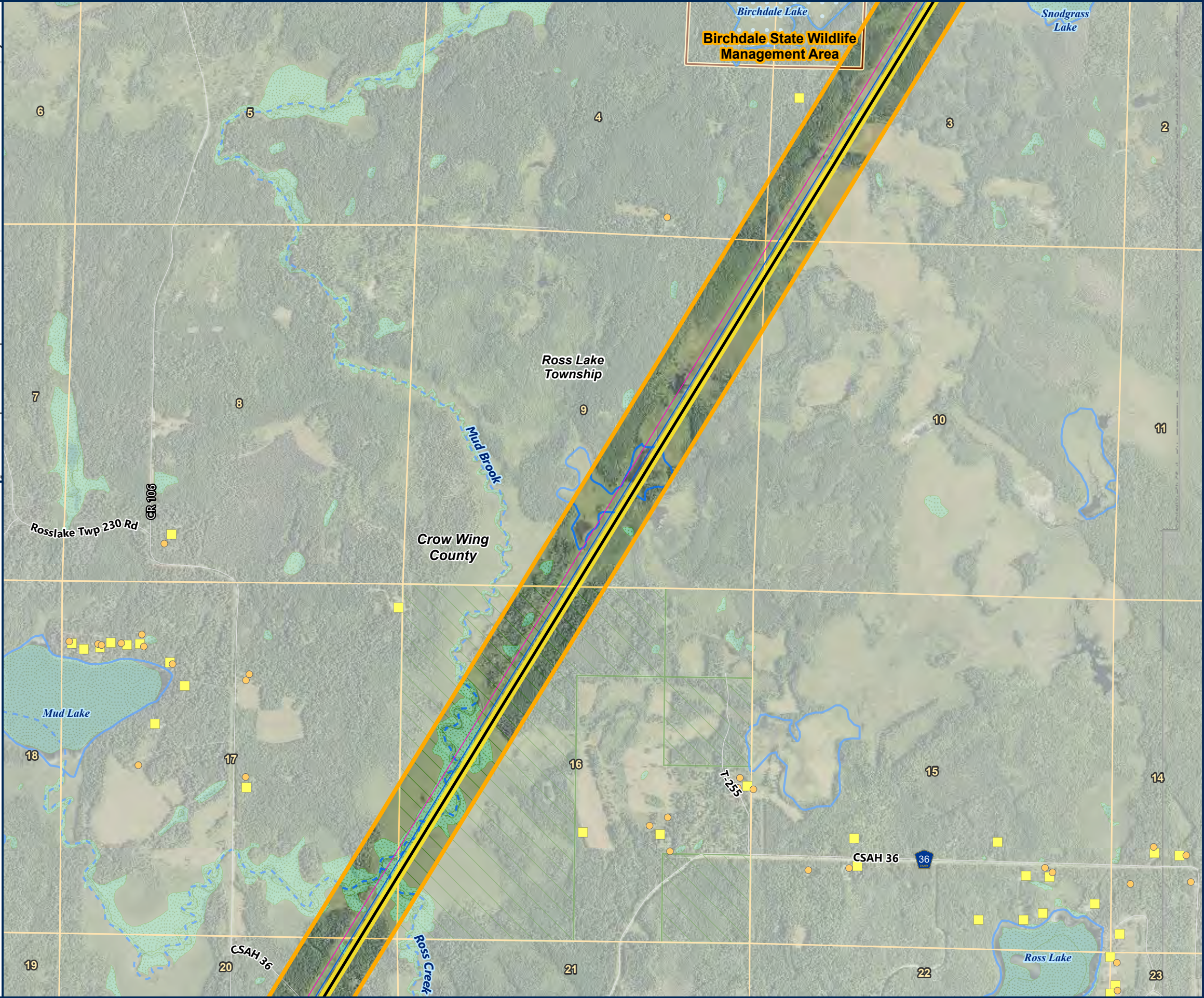
- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1
- EXISTING TRANSMISSION LINE**
- 115 KV
- 230 KV
- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY



Path: \\mspe-gis-file\GISPro\MinPower\10348886_NRP\7_2_WIP\map_docs\PRO_projects\NRP_AlternativeRoute_Figures\NRP_Figures_Sept19_2024\Letter.aprx



Northland Reliability Project



Detailed Map Co-Location Maximization Route Page 18 of 64

- CO-LOCATION MAXIMIZATION ROUTE
- CO-LOCATION MAXIMIZATION ROUTE CENTERLINE
- APPLICATION RIGHT OF WAY
- CO-LOCATION MAXIMIZATION ROUTE RIGHT OF WAY
- REPLACE GRE-BS LINE
- REPLACE MR LINE
- REBUILD EXISTING 69KV
- SHIFT MR MODIFIED, 230KV
- DOUBLE-CIRCUIT 230/115KV (92 LINE/11 LINE)
- SHIFT DOUBLE-CIRCUIT 230/69KV (MR LINE/BP LINE)
- SHIFT 11 LINE, 115KV
- SHIFT 92 LINE, 230KV
- REBUILD EXISTING TRANSMISSION FOR AA3 AND E1

EXISTING TRANSMISSION LINE

- 115 KV
- 230 KV

- SUBSTATION SITING AREA
- BIG OAKS SUBSTATION AREA
- RESIDENCE
- NOT A RESIDENCE
- PWI WATERCOURSE
- PWI WATERBODY
- NON-FORESTED WETLAND
- FORESTED WETLAND
- WILDLIFE MANAGEMENT AREA
- STATE CONSERVATION EASEMENT
- FEDERAL CONSERVATION EASEMENT
- AQUATIC MANAGEMENT AREA
- STATE FOREST
- STATE PARK
- OTHER DNR LAND
- COUNTY BOUNDARY

0 1,000 2,000 Ft