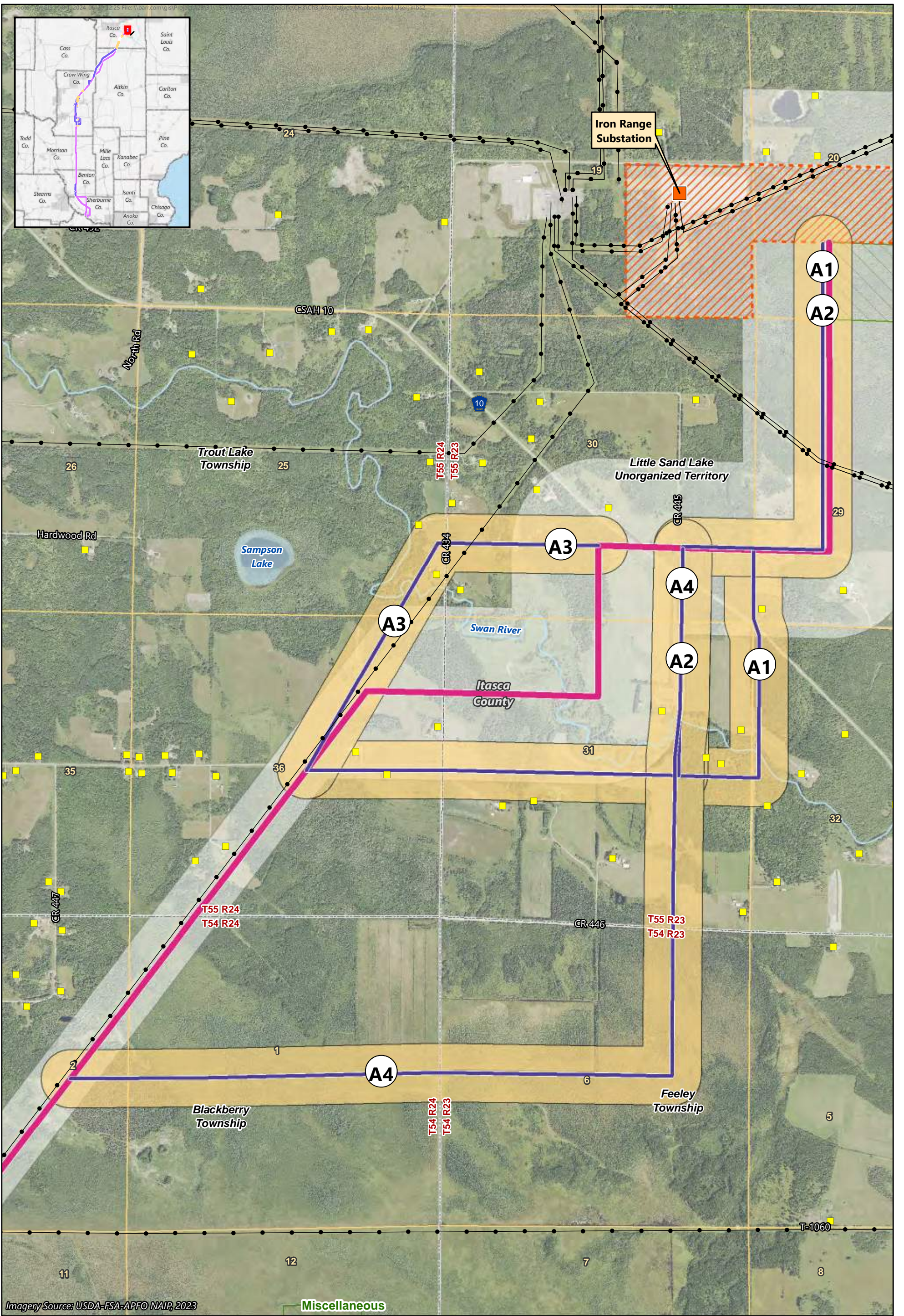
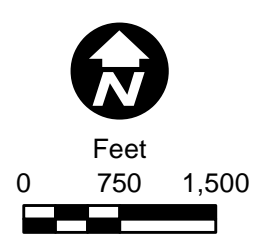


Map Book 3A
Route Alternatives

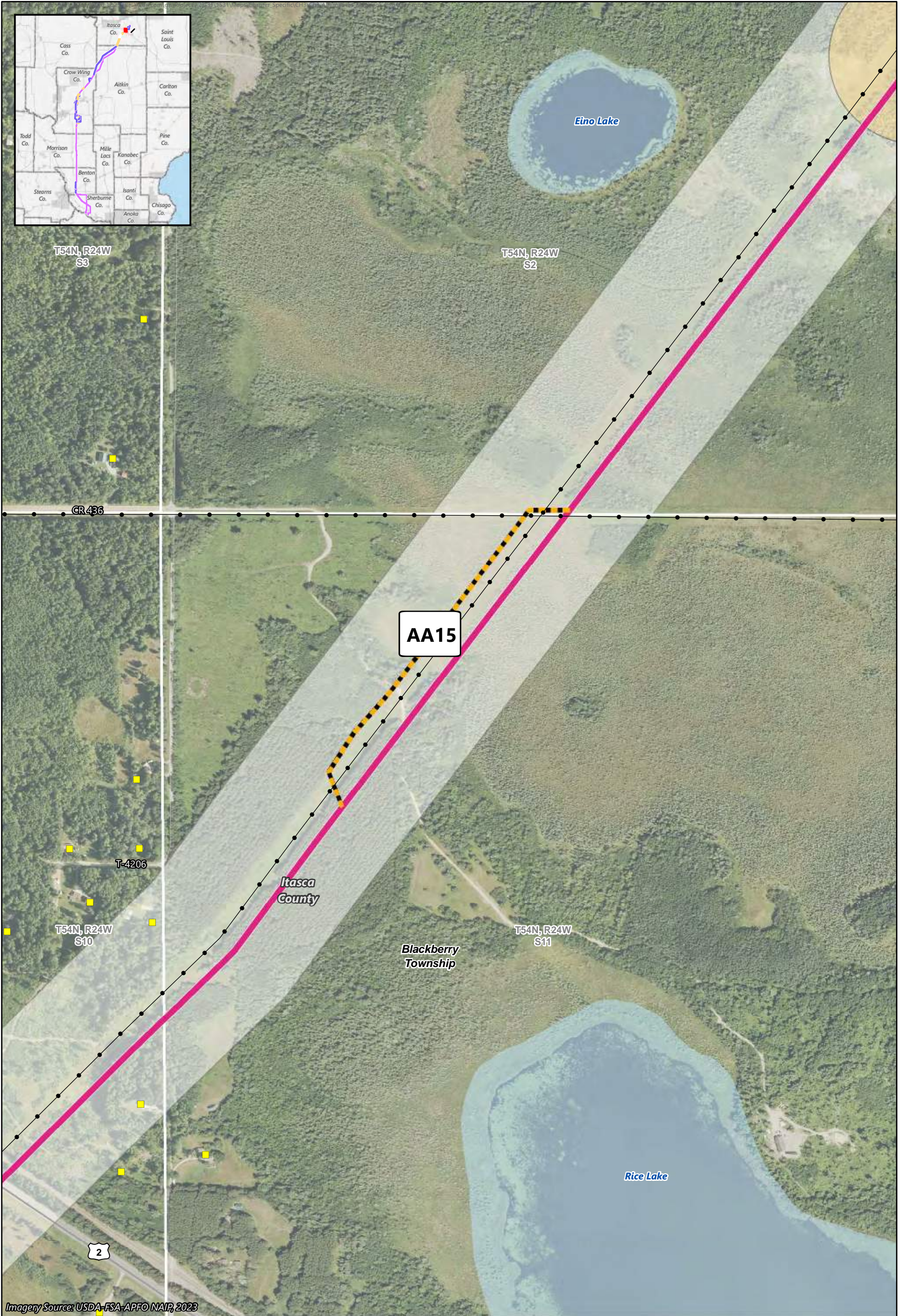
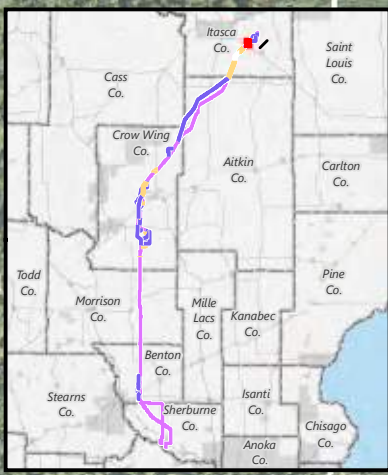


Imagery Source: USDA-FSA-APFO NAIP, 2023









- | | | | | | |
|--|----------------------------|--|----------------------------|--|----------------|
| | Applicants' Proposed Route | | Existing Transmission Line | | PWI Basin |
| | Route Width | | Iron Range Substation | | Other DNR Land |
| | Route Alternative | | Substation Siting Area | | Residence |
| | Alignment Alternative | | PWI Waterway | | |
| | Route Alternative Width | | | | |

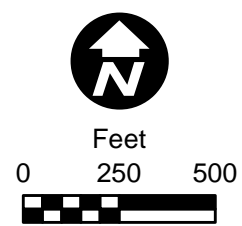


Map 3A-1
ROUTE ALTERNATIVES A1 - A4
 Iron Range Substation Region
 Northland Reliability Project

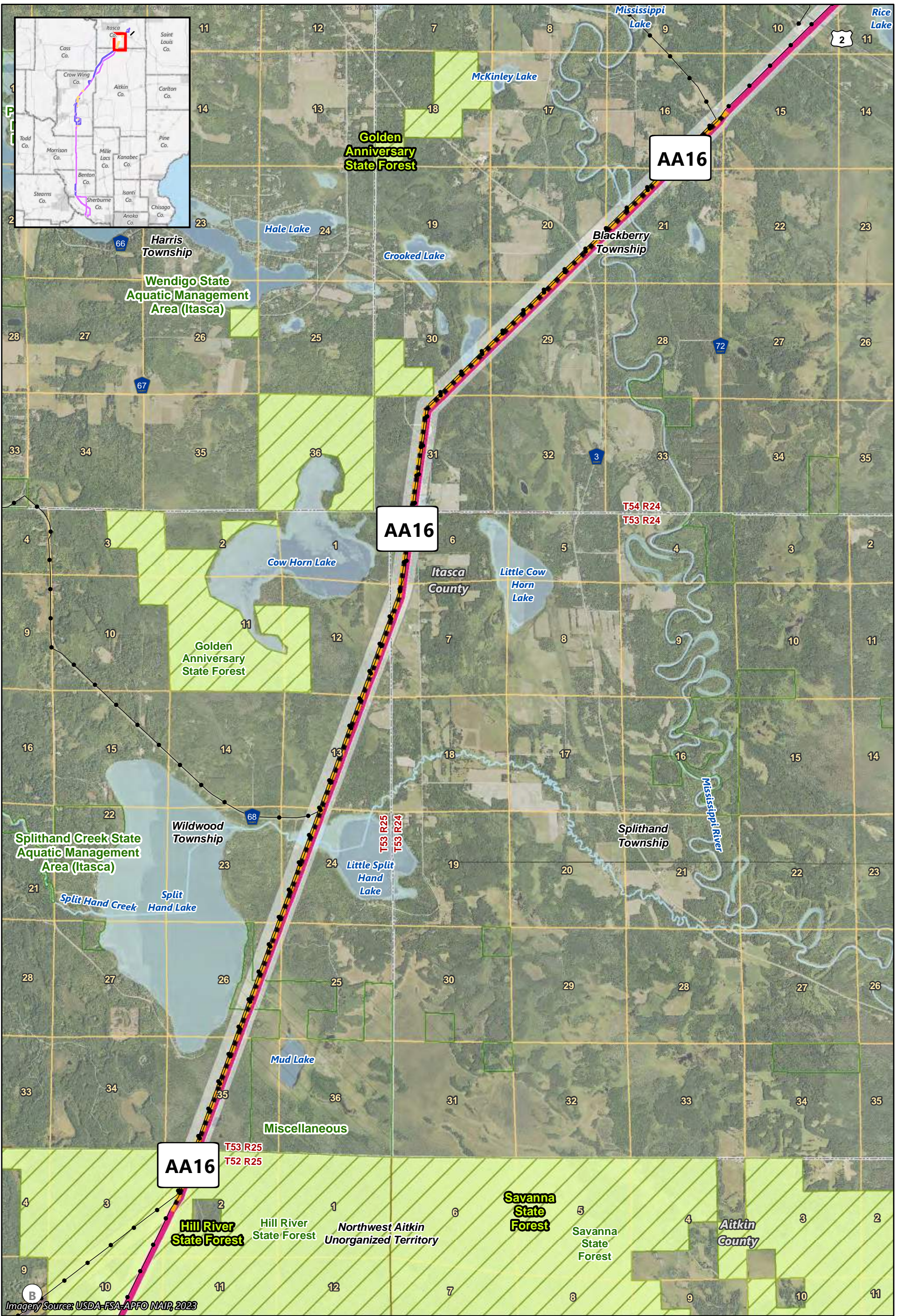


Imagery Source: USDA-FSA-APFO NAIP, 2023











-  Applicants' Proposed Route
-  Existing Transmission Line
-  Route Width
-  Residence
-  Route Alternative
-  PWI Basin
-  Alignment Alternative
-  Route Alternative Width

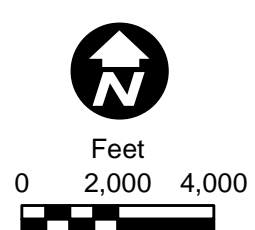


Map 3A-2
ALIGNMENT ALTERNATIVE AA15
 Iron Range Substation Region
 Northland Reliability Project

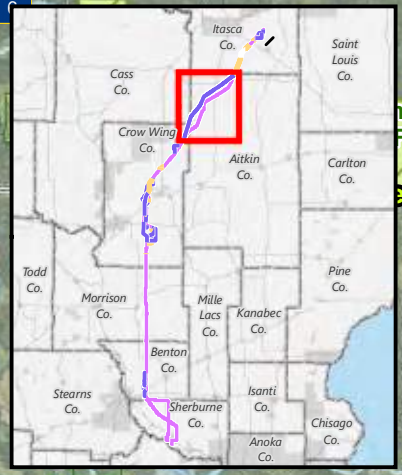
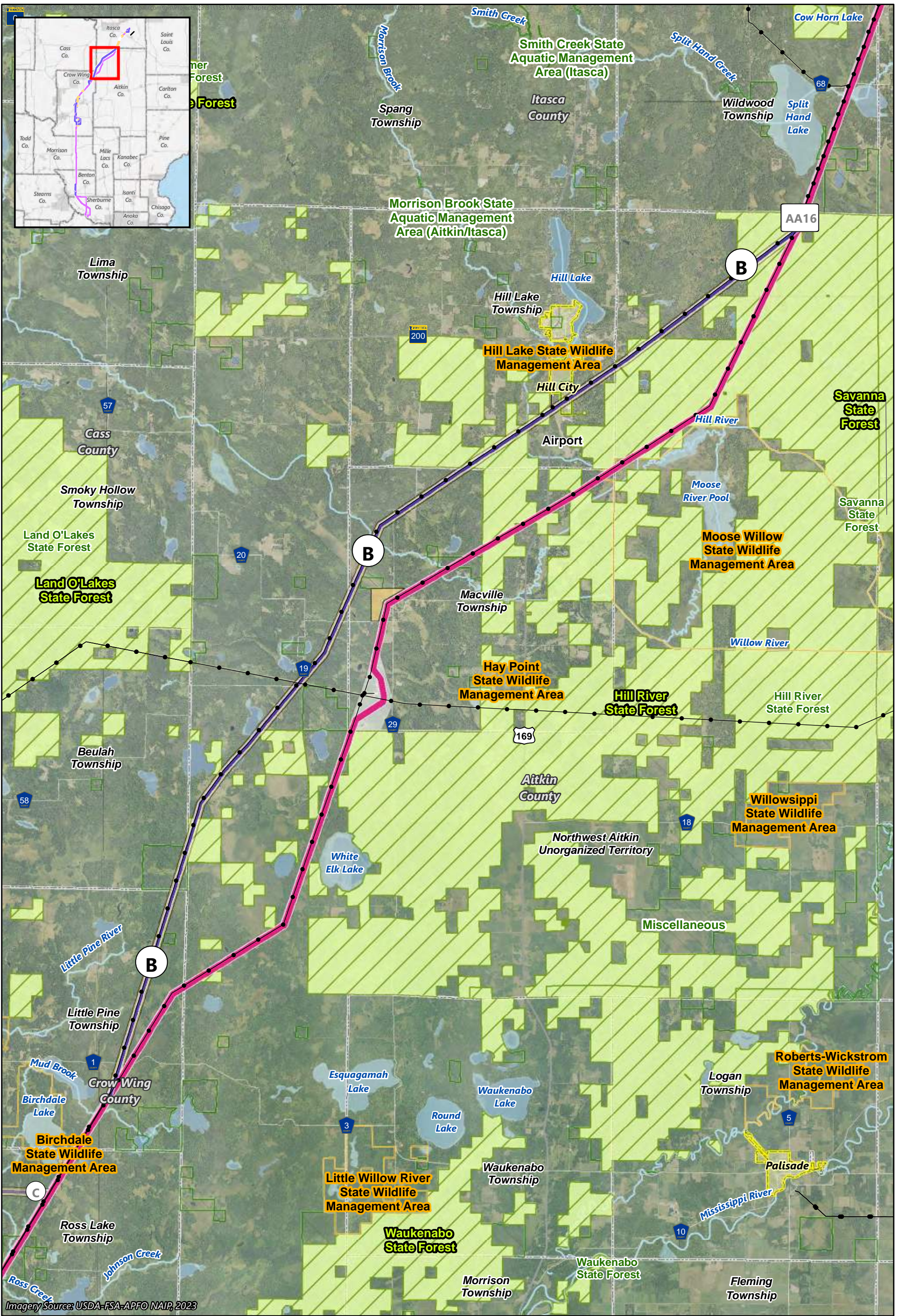







Imagery Source: USDA-FSA-APFO NAIP, 2023






-  Applicants' Proposed Route
-  Existing Transmission Line
-  Route Width
-  PWI Waterway
-  Route Alternative
-  PWI Basin
-  Alignment Alternative
-  State Forest
-  Route Alternative Width
-  Other DNR Land





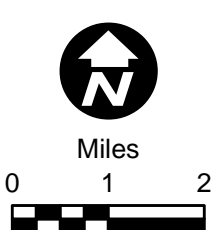
Map 3A-3
ALIGNMENT ALTERNATIVE AA16
 Hill City to Little Pine Region
 Northland Reliability Project



-  Applicants' Proposed Route
-  Route Width
-  Route Alternative
-  Alignment Alternative
-  Route Alternative Width

-  Existing Transmission Line
-  PWI Waterway
-  PWI Basin
-  State WMA
-  State Forest

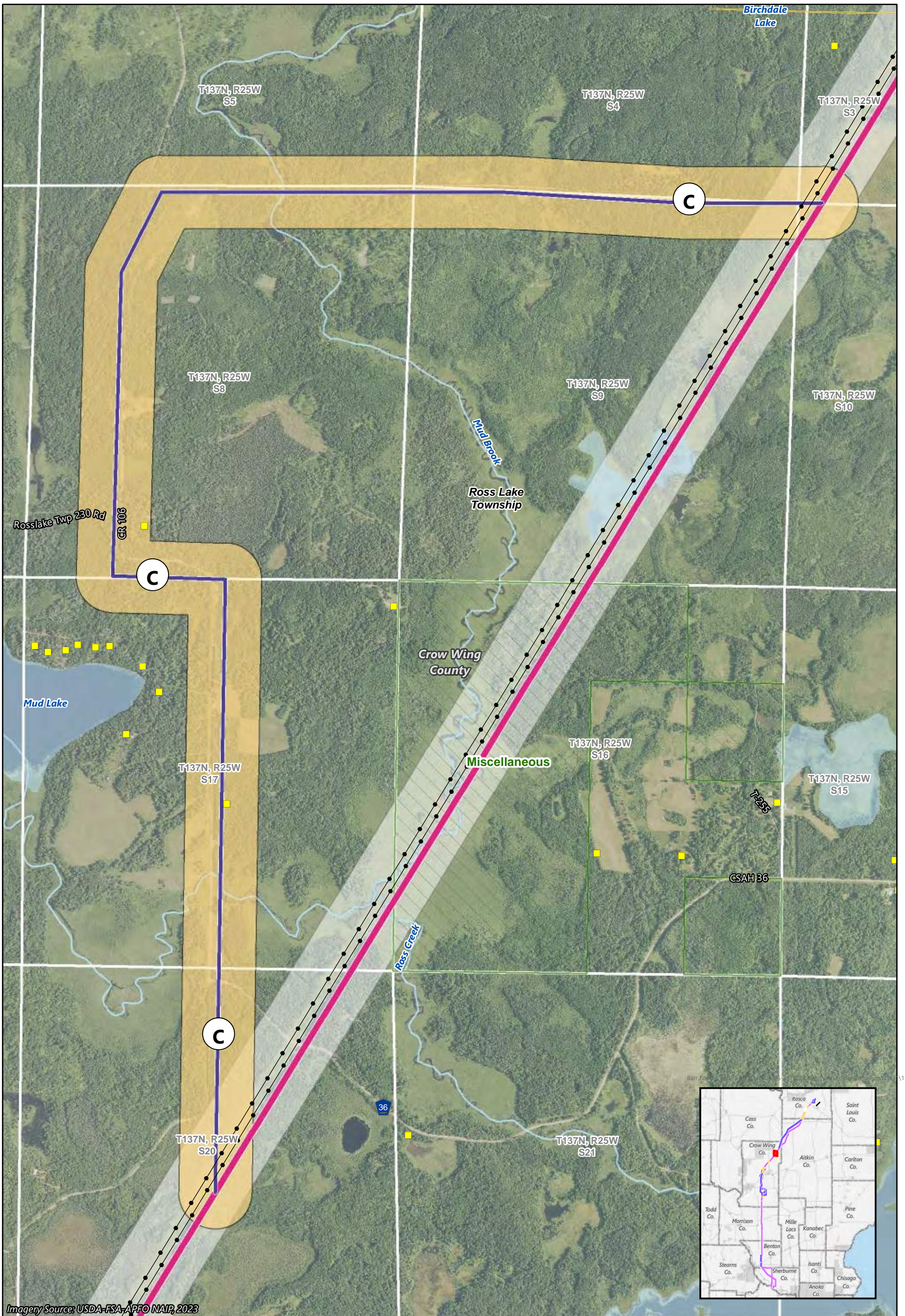
-  Other DNR Land
-  Municipal Boundary













Map 3A-4

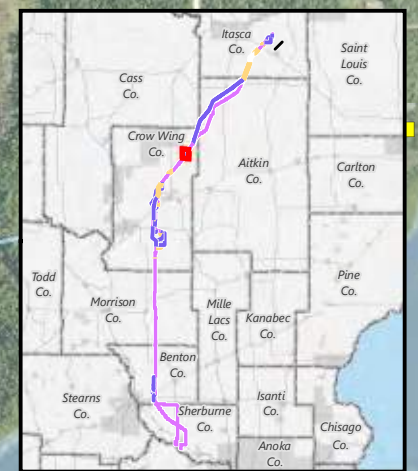
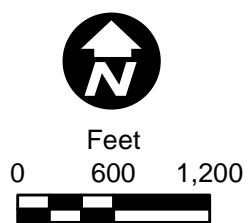
ROUTE ALTERNATIVE B
Hill City to Little Pine Region
Northland Reliability Project

Imagery Source: USDA-FSA-APFO NAIP, 2023

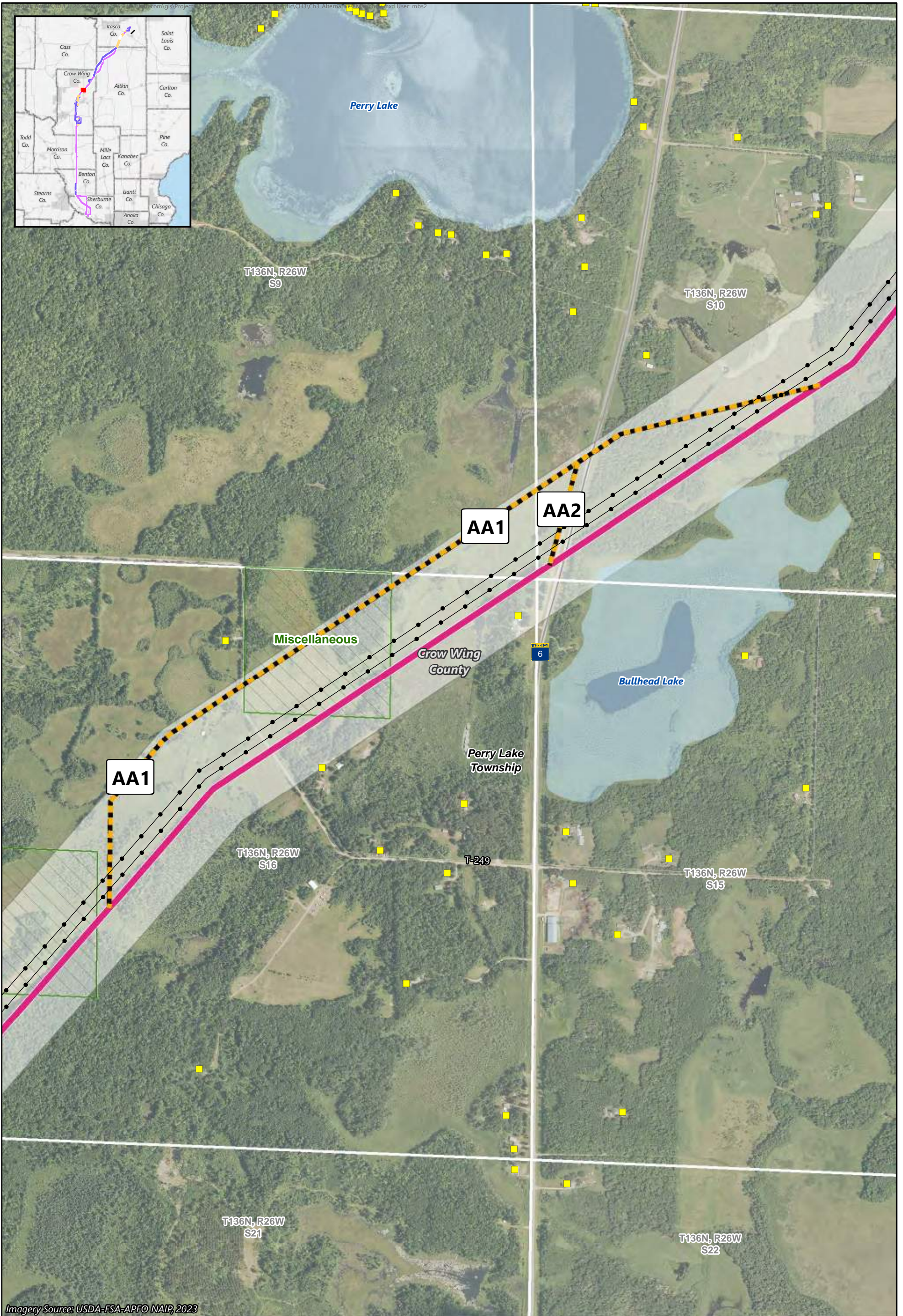
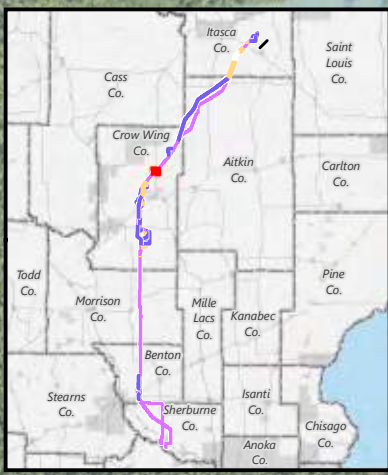


Imagery Source: USDA-FSA-AFPO NAIP, 2023










-  Applicants' Proposed Route
-  Existing Transmission Line
-  Other DNR Land
-  Route Width
-  Residence
-  PWI Waterway
-  PWI Basin
-  Alignment Alternative
-  State WMA
-  Route Alternative Width

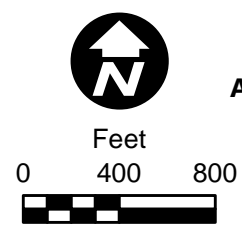


Map 3A-5
ROUTE ALTERNATIVE C
 Hill City to Little Pine Region
 Northland Reliability Project

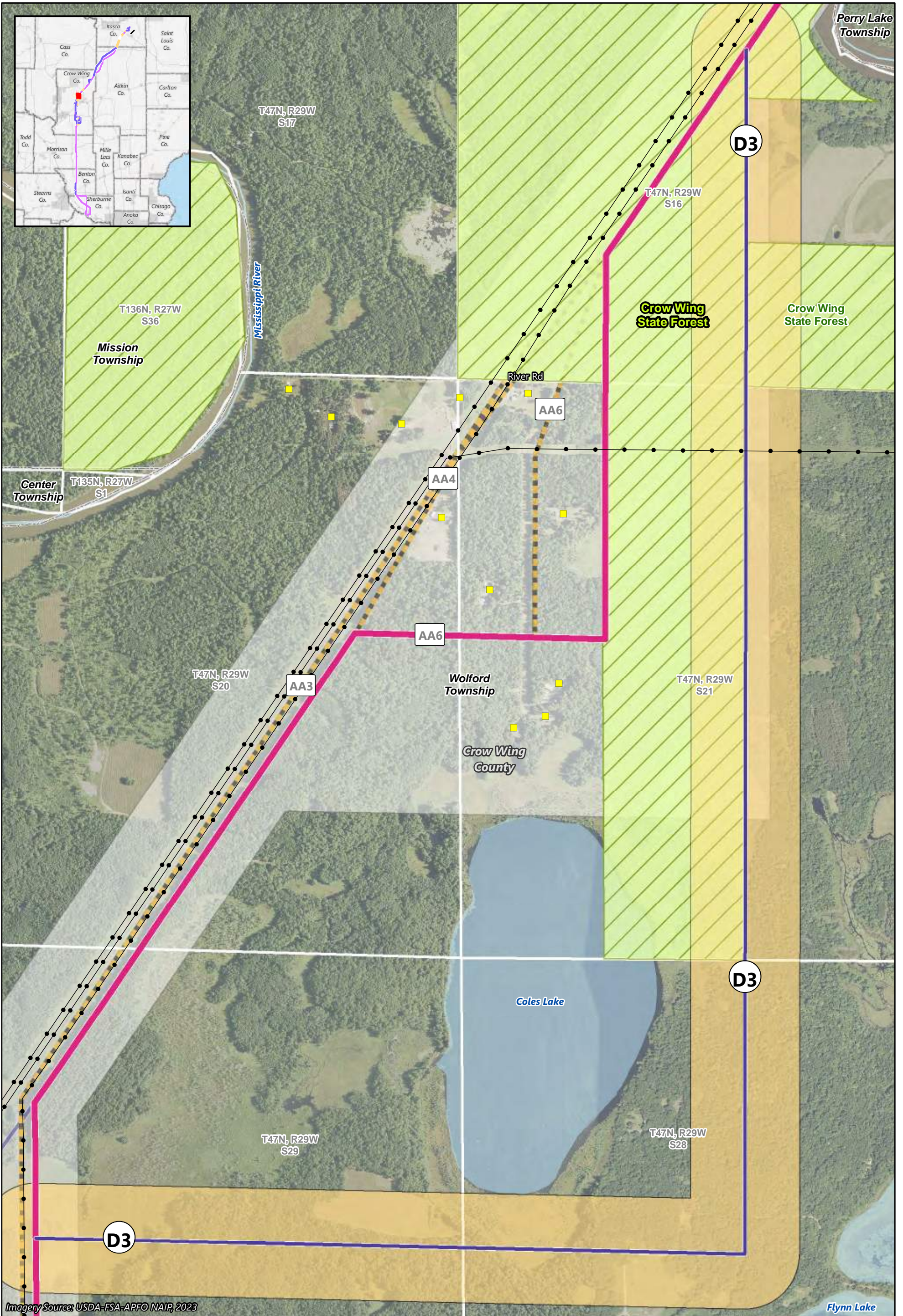


Imagery Source: USDA-FSA-APFO NAIP, 2023

-  Applicants' Proposed Route
-  Existing Transmission Line
-  Route Width
-  Residence
-  Route Alternative
-  PWI Basin
-  Alignment Alternative
-  Other DNR Land
-  Route Alternative Width

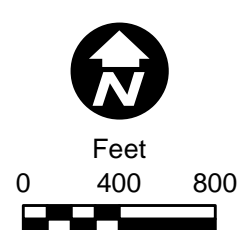


Map 3A-6
ALIGNMENT ALTERNATIVES AA1 AND AA2
 Hill City to Little Pine Region
 Northland Reliability Project

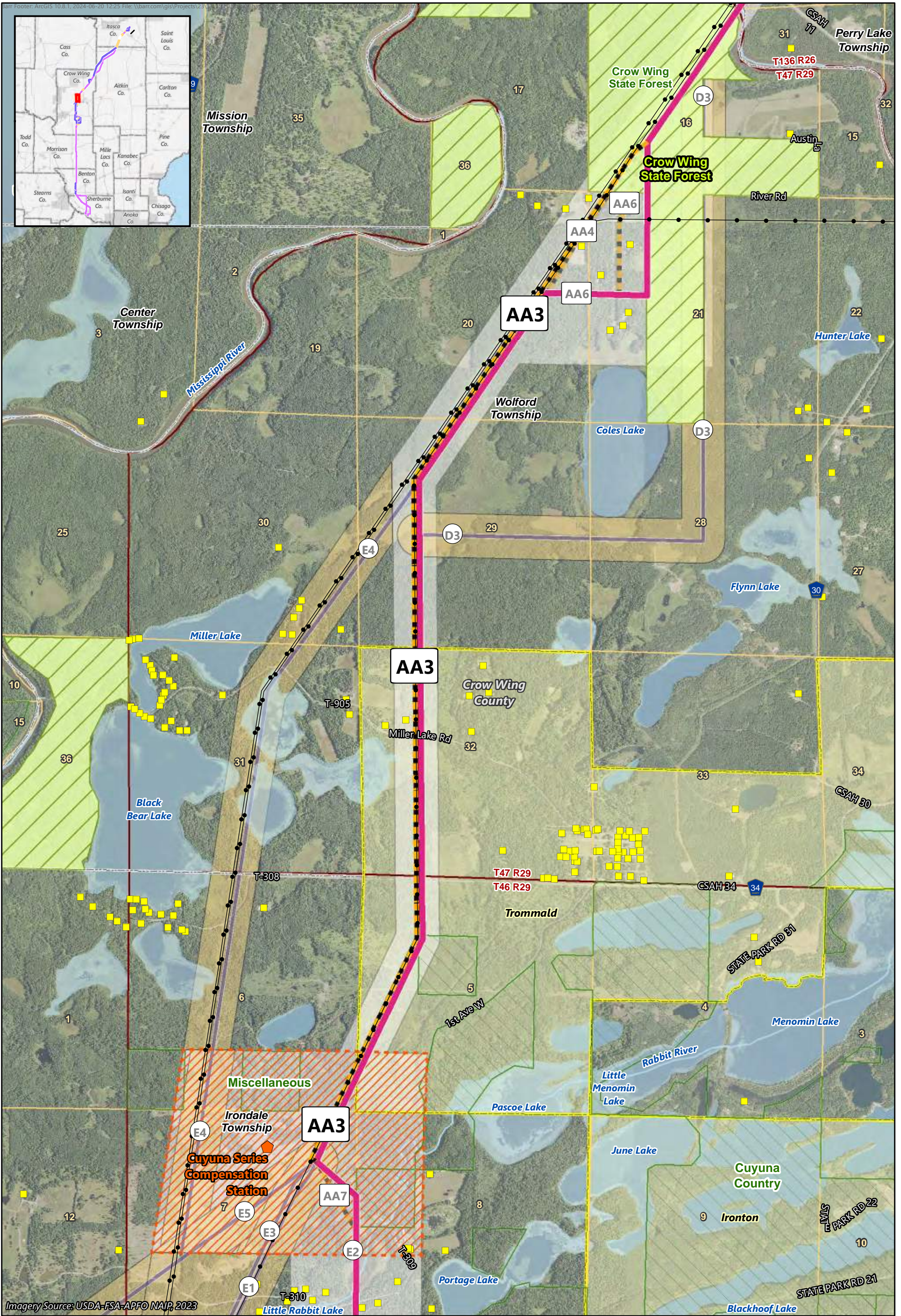
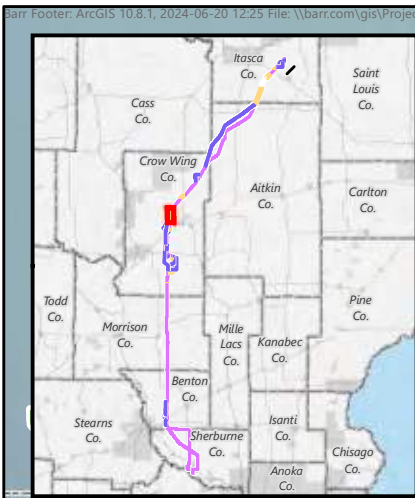


Imagery Source: USDA-FSA-APFO NAIP, 2023

- Applicants' Proposed Route
- Route Width
- Route Alternative
- Alignment Alternative
- Route Alternative Width
- Existing Transmission Line
- Residence
- PWI Waterway
- PWI Basin
- State Forest

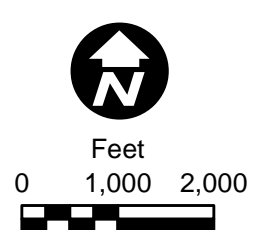


Map 3A-7
ROUTE ALTERNATIVE D3
 Cole Lake/Riverton Region
 Northland Reliability Project

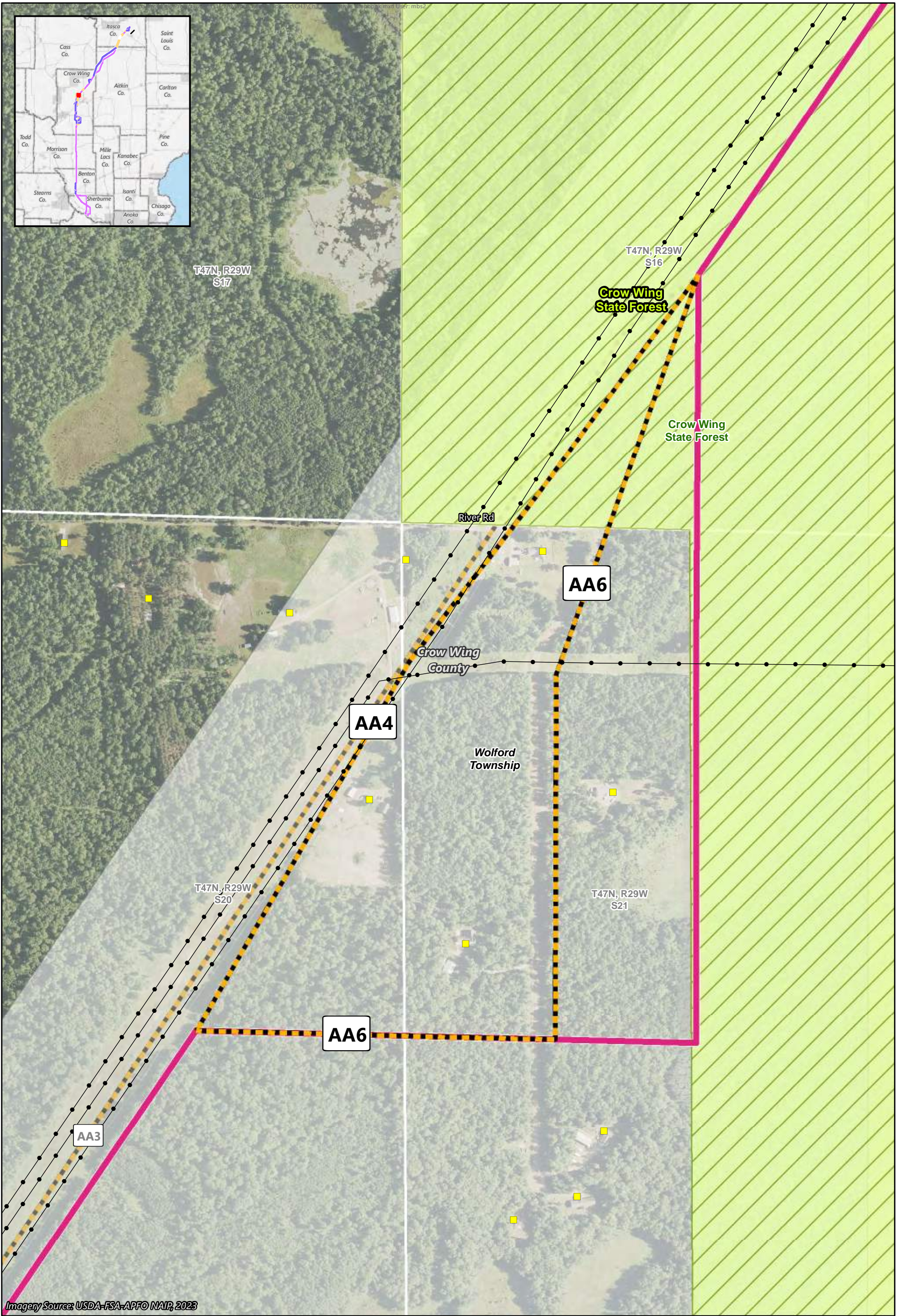


Imagery Source: USDA-FSA-APFO NAIP, 2023









- Applicants' Proposed Route
- Route Width
- Route Alternative
- Alignment Alternative
- Route Alternative Width
- Existing Transmission Line
- Cuyuna Series Compensation Station
- Substation Siting Area
- Residence
- PWI Waterway
- PWI Basin
- State Forest
- Other DNR Land
- Municipal Boundary

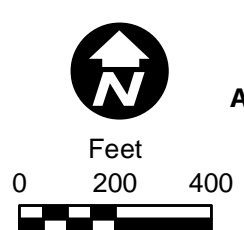


Map 3A-8
ALIGNMENT ALTERNATIVE AA3
 Cole Lake/Riverton Region
 Northland Reliability Project

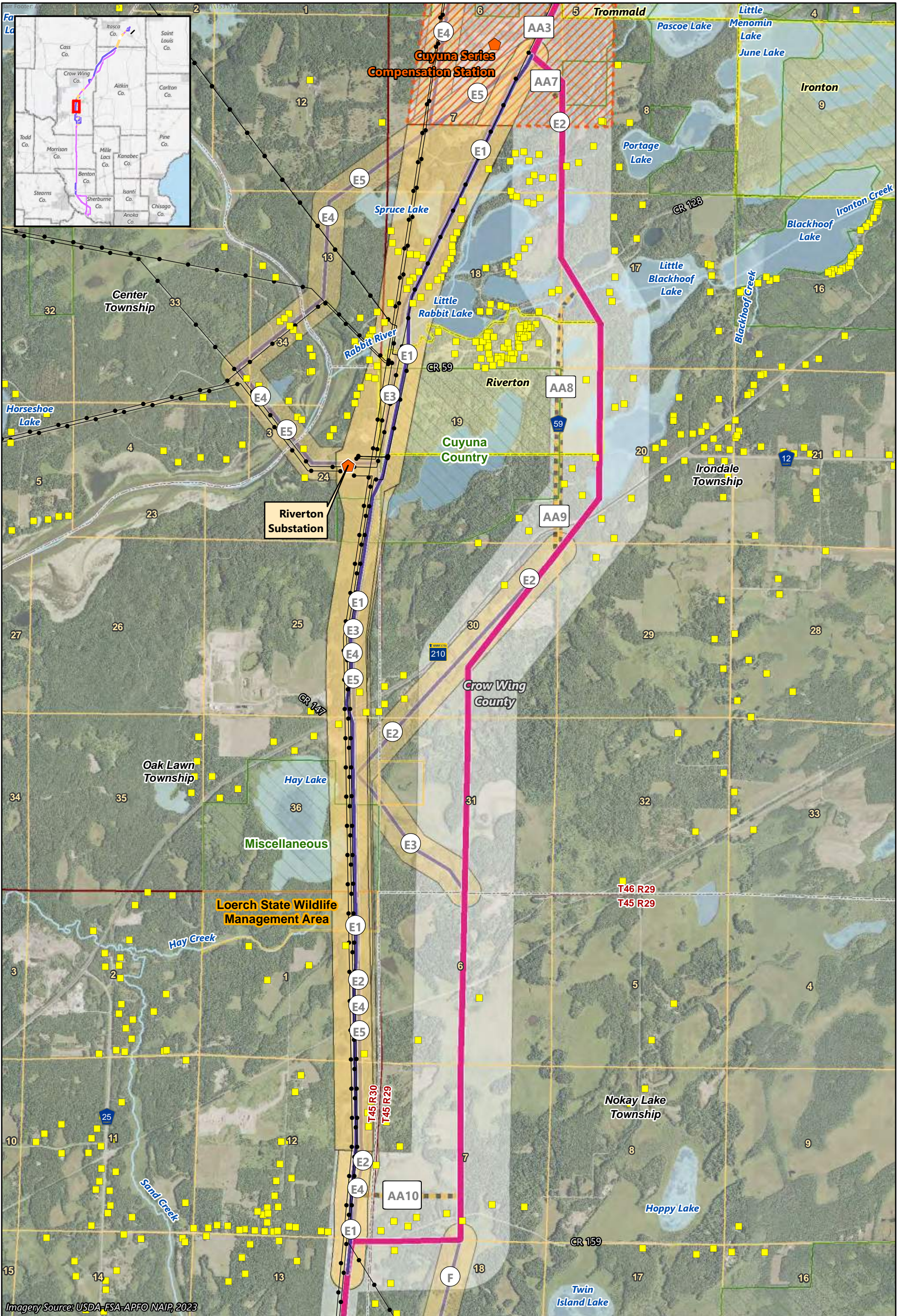


Imagery Source: USDA-FSA-AFFO NAIP, 2023

-  Applicants' Proposed Route
-  Existing Transmission Line
-  Route Width
-  Residence
-  Route Alternative
-  State Forest
-  Alignment Alternative
-  Route Alternative Width

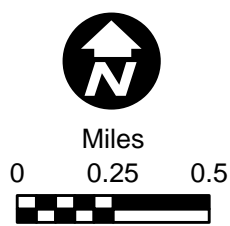


Map 3A-9
ALIGNMENT ALTERNATIVES AA4 AND AA6
 Cole Lake/Riverton Region
 Northland Reliability Project

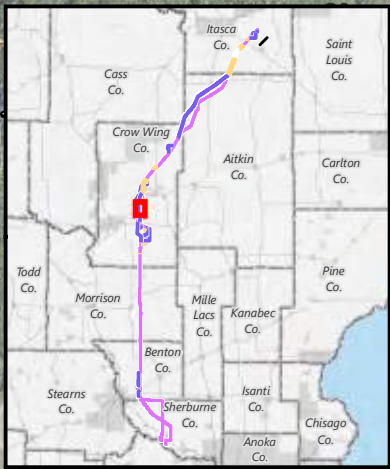
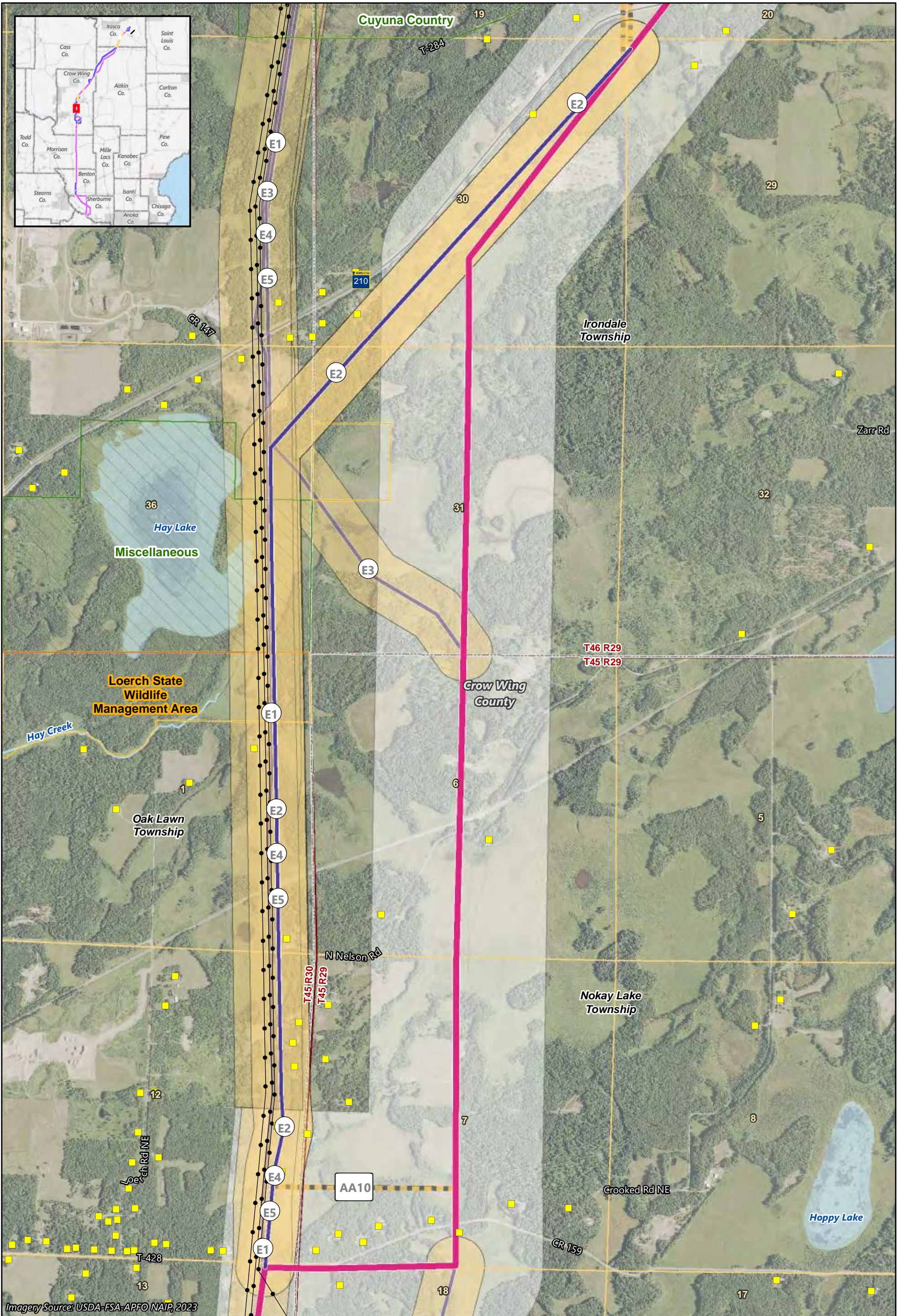


Imagery Source: USDA-FSA-APFO NAIP, 2023












- | | | |
|----------------------------|------------------------------------|--------------------|
| Applicants' Proposed Route | Riverton Substation | PWI Basin |
| Route Width | Cuyuna Series Compensation Station | State WMA |
| Route Alternative | Substation Siting Area | Other DNR Land |
| Alignment Alternative | Residence | Municipal Boundary |
| Route Alternative Width | PWI Waterway | |
| Existing Transmission Line | | |

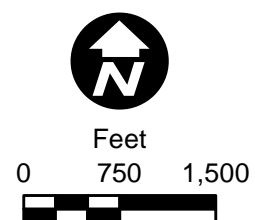


Map 3A-10
ROUTE ALTERNATIVE E1
 Cole Lake/Riverton Region
 Northland Reliability Project

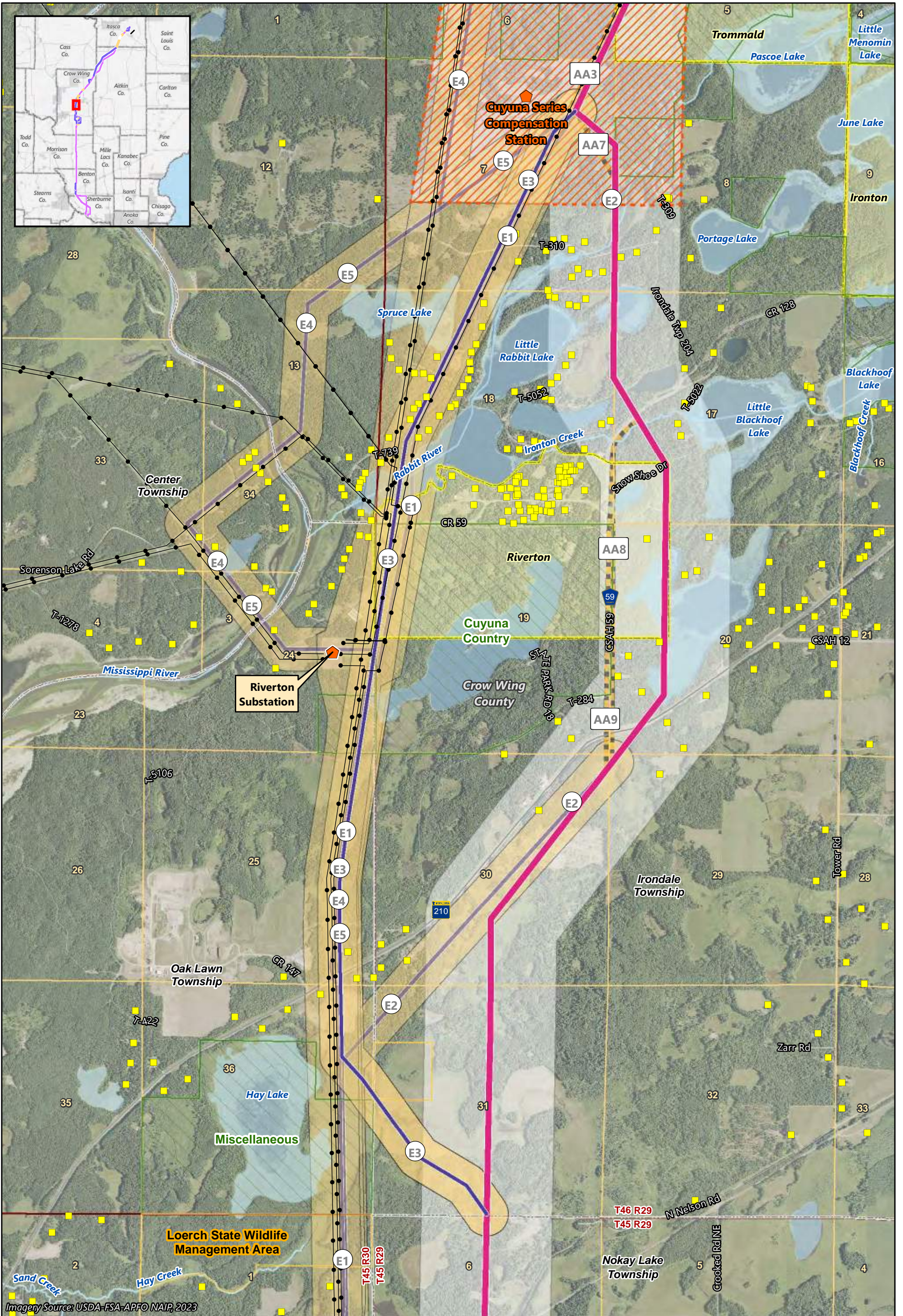


Imagery Source: USDA-FSA-APFO NAIP, 2023

-  Applicants' Proposed Route
-  Route Width
-  Route Alternative
-  Alignment Alternative
-  Route Alternative Width
-  Existing Transmission Line
-  Residence
-  PWI Waterway
-  PWI Basin
-  State WMA
-  Other DNR Land

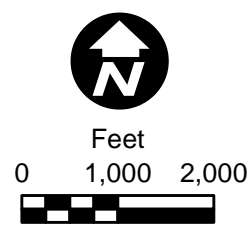


Map 3A-11
ROUTE ALTERNATIVE E2
 Cole Lake/Riverton Region
 Northland Reliability Project

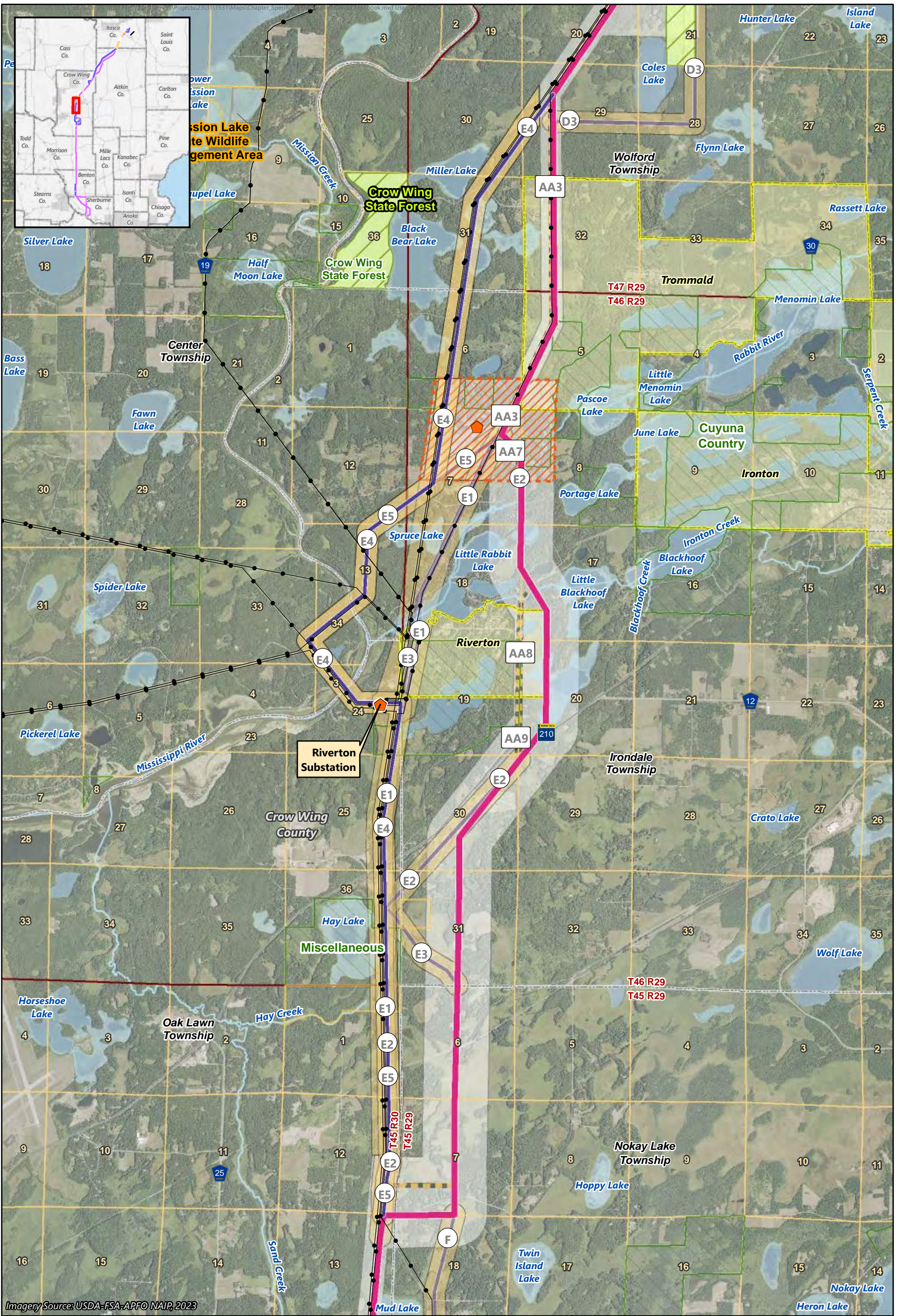


Imagery Source: USDA-FSA-APFO NAIP, 2023







- | | | | | | |
|--|----------------------------|--|------------------------------------|--|--------------------|
| | Applicants' Proposed Route | | Riverton Substation | | PWI Basin |
| | Route Width | | Cuyuna Series Compensation Station | | State WMA |
| | Route Alternative | | Substation Siting Area | | Other DNR Land |
| | Alignment Alternative | | Residence | | Municipal Boundary |
| | Route Alternative Width | | PWI Waterway | | |
| | Existing Transmission Line | | | | |












Map 3A-12
ROUTE ALTERNATIVE E3
 Cole Lake/Riverton Region
 Northland Reliability Project

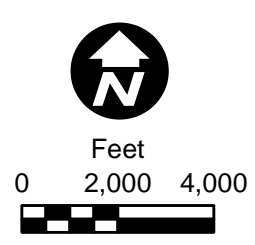


Imagery Source: USDA-FSA-APFO NAIP, 2023

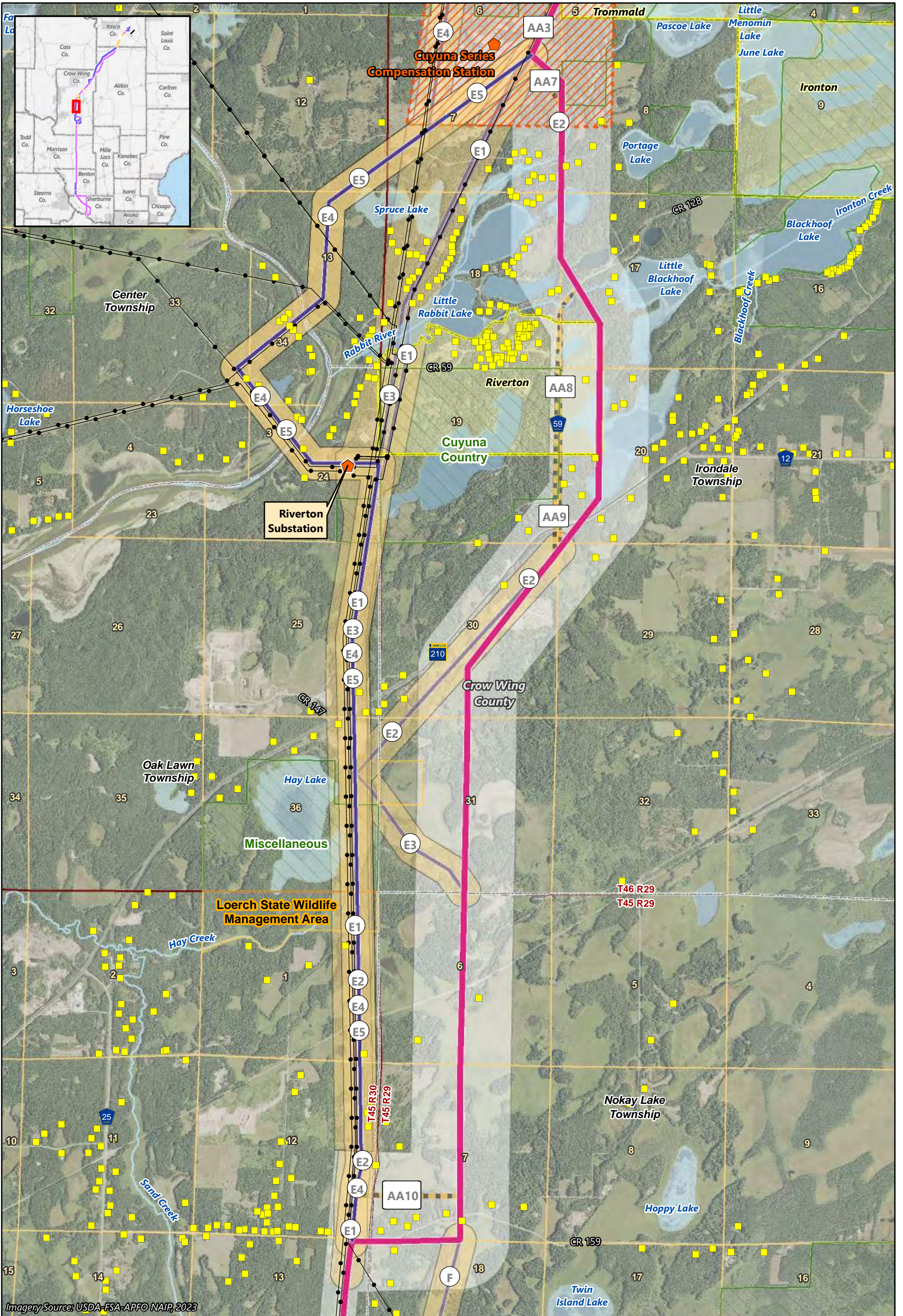
-  Applicants' Proposed Route
-  Route Width
-  Route Alternative
-  Alignment Alternative
-  Route Alternative Width
-  Existing Transmission Line

-  Riverton Substation
-  Cuyuna Series Compensation Station
-  Substation Siting Area
-  PWI Waterway
-  PWI Basin

-  State WMA
-  State Forest
-  Other DNR Land
-  Municipal Boundary

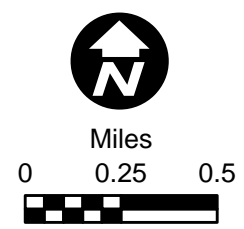


Map 3A-13
ROUTE ALTERNATIVE E4
 Cole Lake/Riverton Region
 Northland Reliability Project

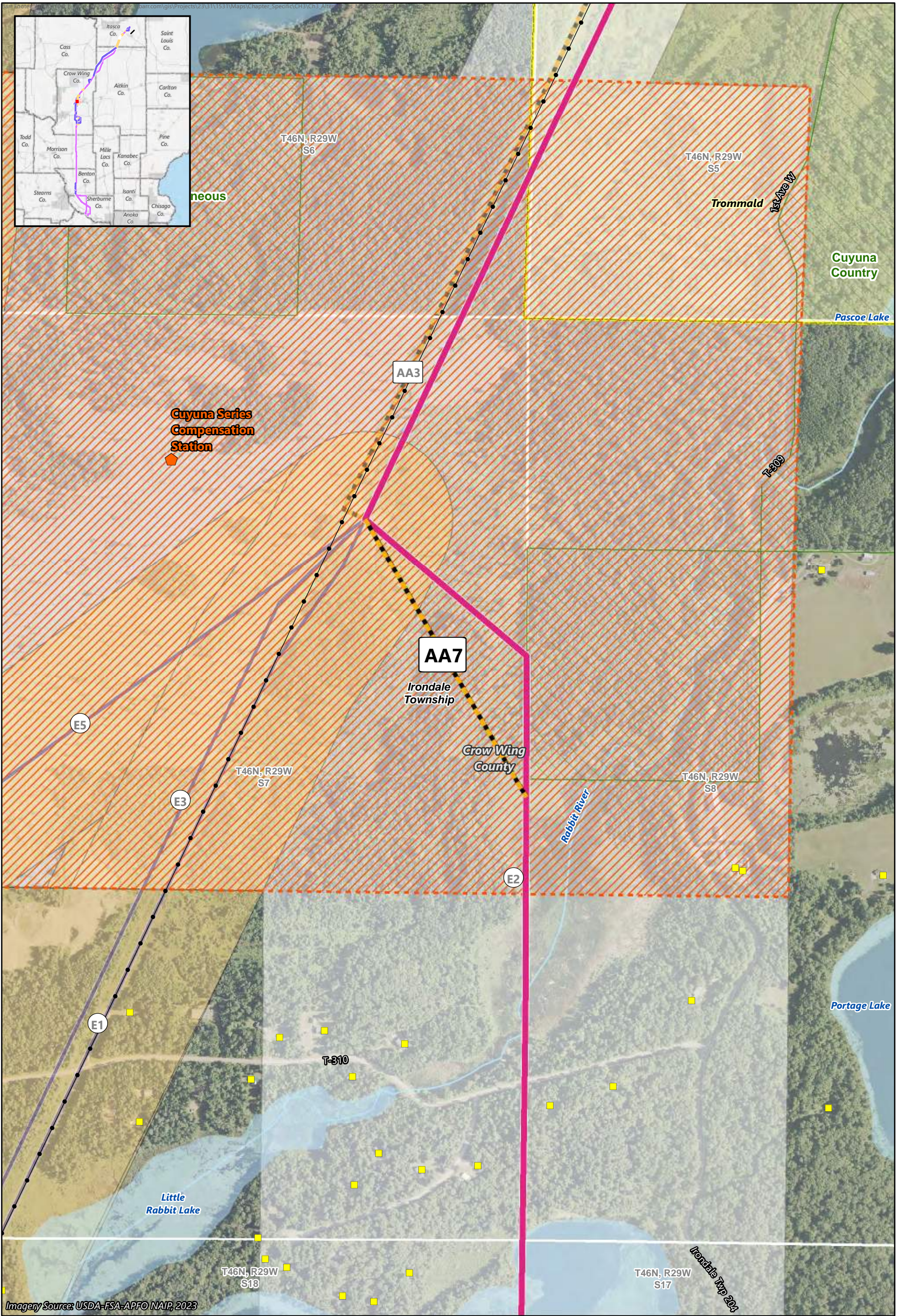


Imagery Source: USDA-FSA-APFO NAIP, 2023














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|----------------------------|------------------------------------|--------------------|
| Applicants' Proposed Route | Riverton Substation | PWI Basin |
| Route Width | Cuyuna Series Compensation Station | State WMA |
| Route Alternative | Substation Siting Area | Other DNR Land |
| Alignment Alternative | Residence | Municipal Boundary |
| Route Alternative Width | PWI Waterway | |
| Existing Transmission Line | | |

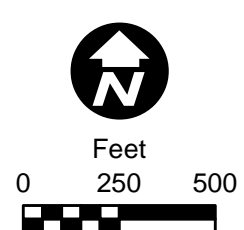


Map 3A-14
ROUTE ALTERNATIVE E5
 Cole Lake/Riverton Region
 Northland Reliability Project

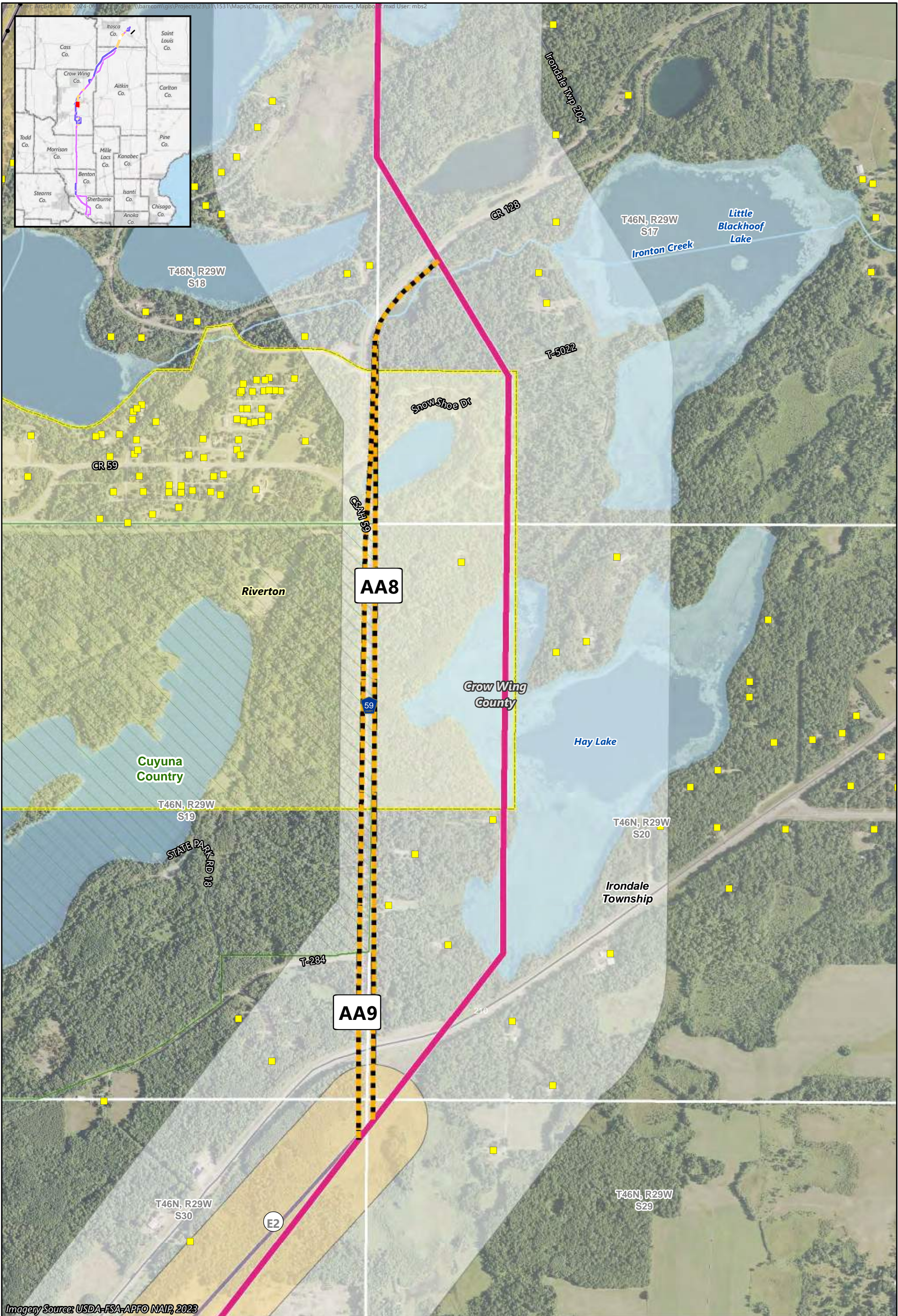


Imagery Source: USDA-FSA-APFO NAIP, 2023

-  Applicants' Proposed Route
-  Route Width
-  Route Alternative
-  Alignment Alternative
-  Route Alternative Width
-  Existing Transmission Line
-  Cuyuna Series Compensation Station
-  Substation Siting Area
-  Residence
-  PWI Waterway
-  PWI Basin
-  Other DNR Land
-  Municipal Boundary

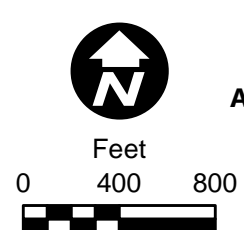


Map 3A-15
ALIGNMENT ALTERNATIVE AA7
 Cole Lake/Riverton Region
 Northland Reliability Project

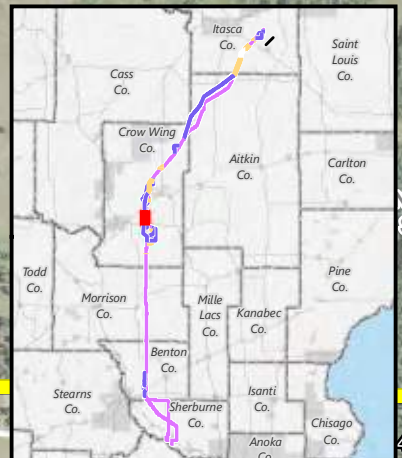
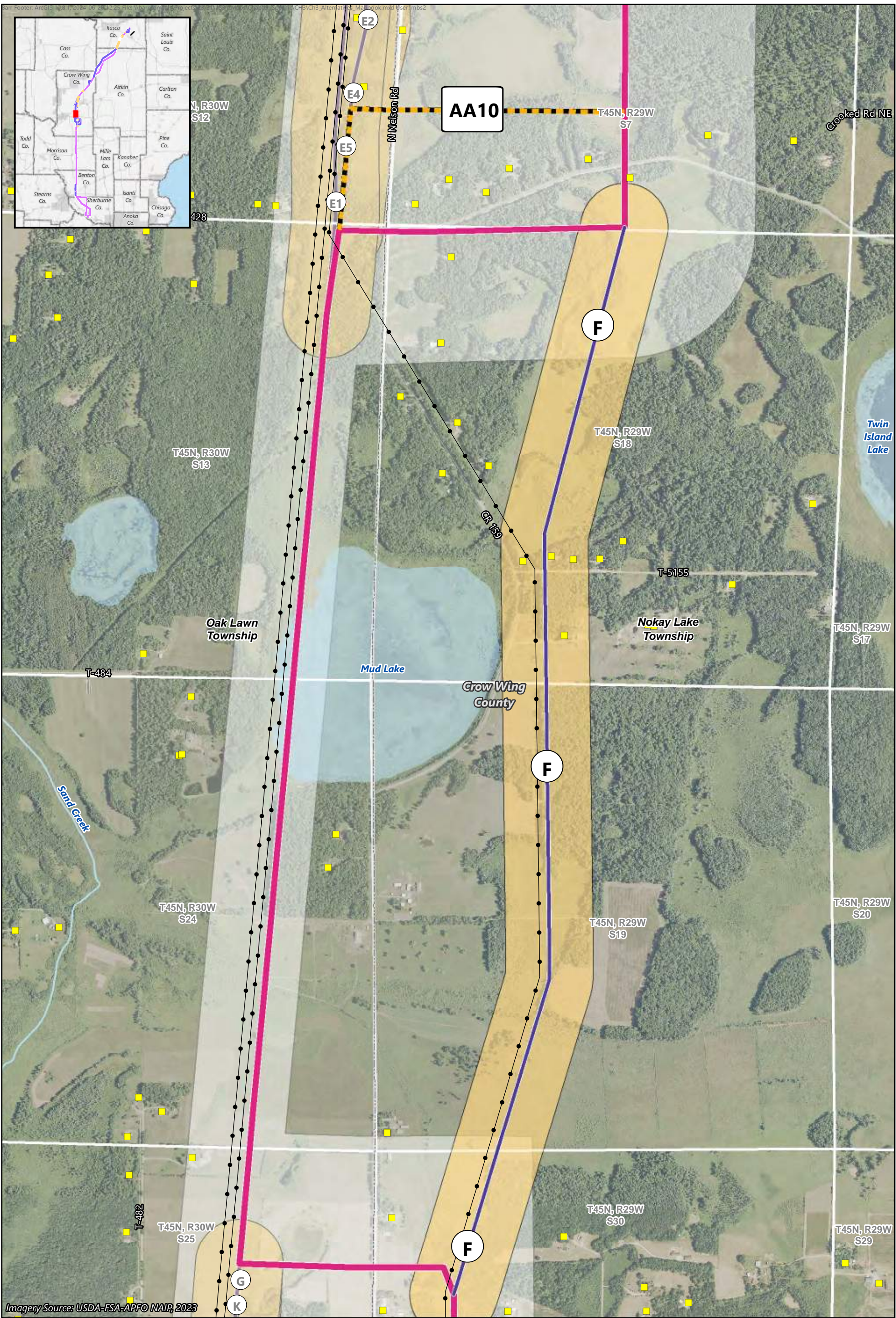


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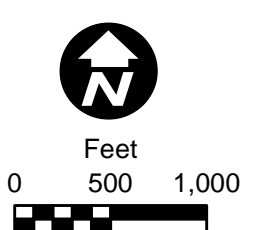
- Applicants' Proposed Route
- Route Width
- Route Alternative
- Alignment Alternative
- Route Alternative Width
- Existing Transmission Line
- Residence
- PWI Waterway
- PWI Basin
- Other DNR Land
- Municipal Boundary



Map 3A-16
ALIGNMENT ALTERNATIVES AA8 AND AA9
 Cole Lake/Riverton Region
 Northland Reliability Project



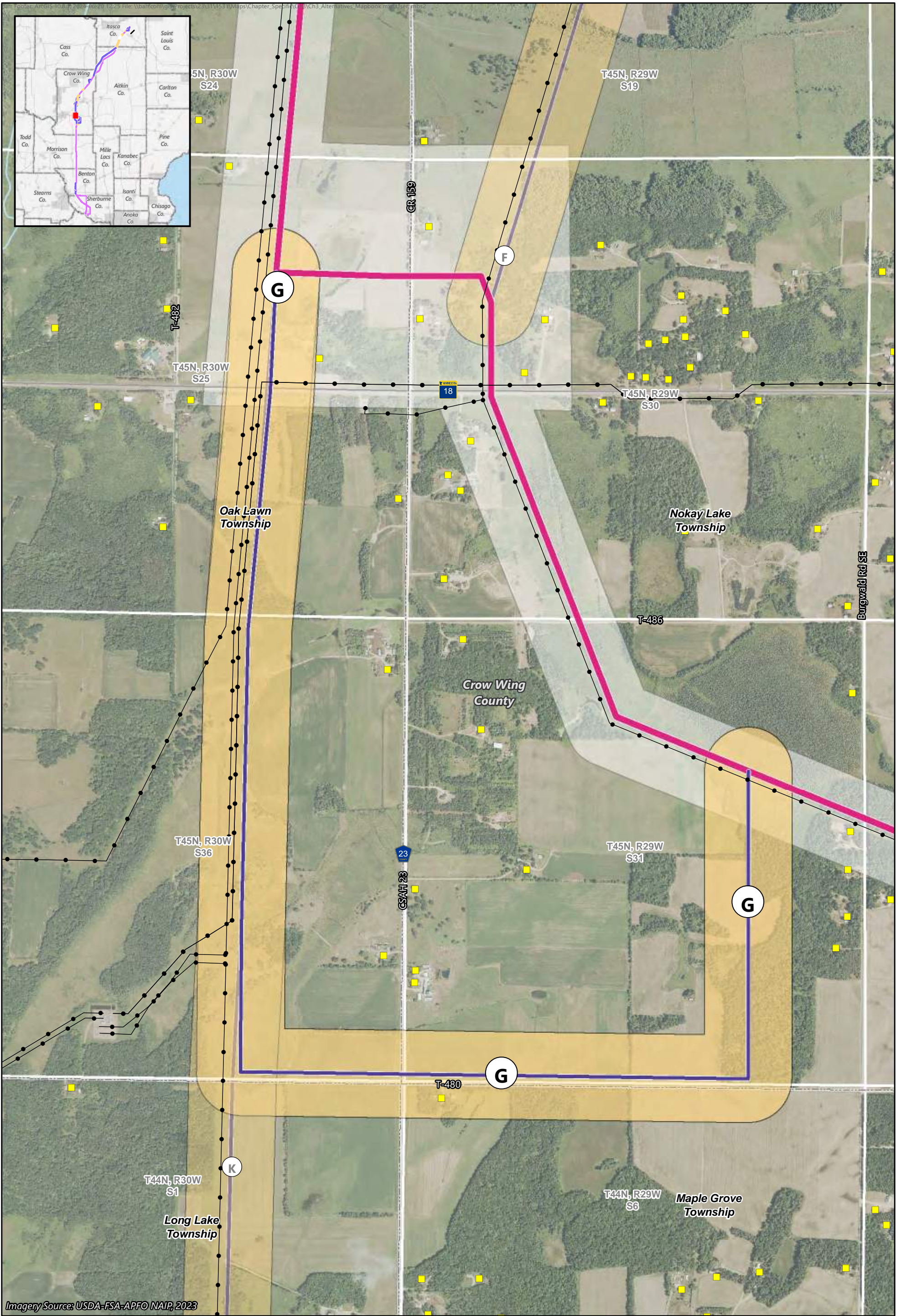
- Applicants' Proposed Route
- Existing Transmission Line
- Route Width
- Residence
- PWI Waterway
- PWI Basin
- Alignment Alternative
- Route Alternative Width











Map 3A-17

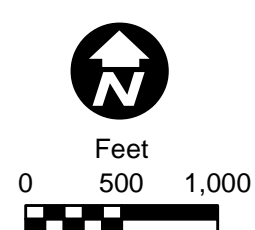
**ROUTE ALTERNATIVE F AND
ALIGNMENT ALTERNATIVE AA10**
Cole Lake/Riverton Region
Northland Reliability Project

Imagery Source: USDA-FSA-APFO NAIP, 2023



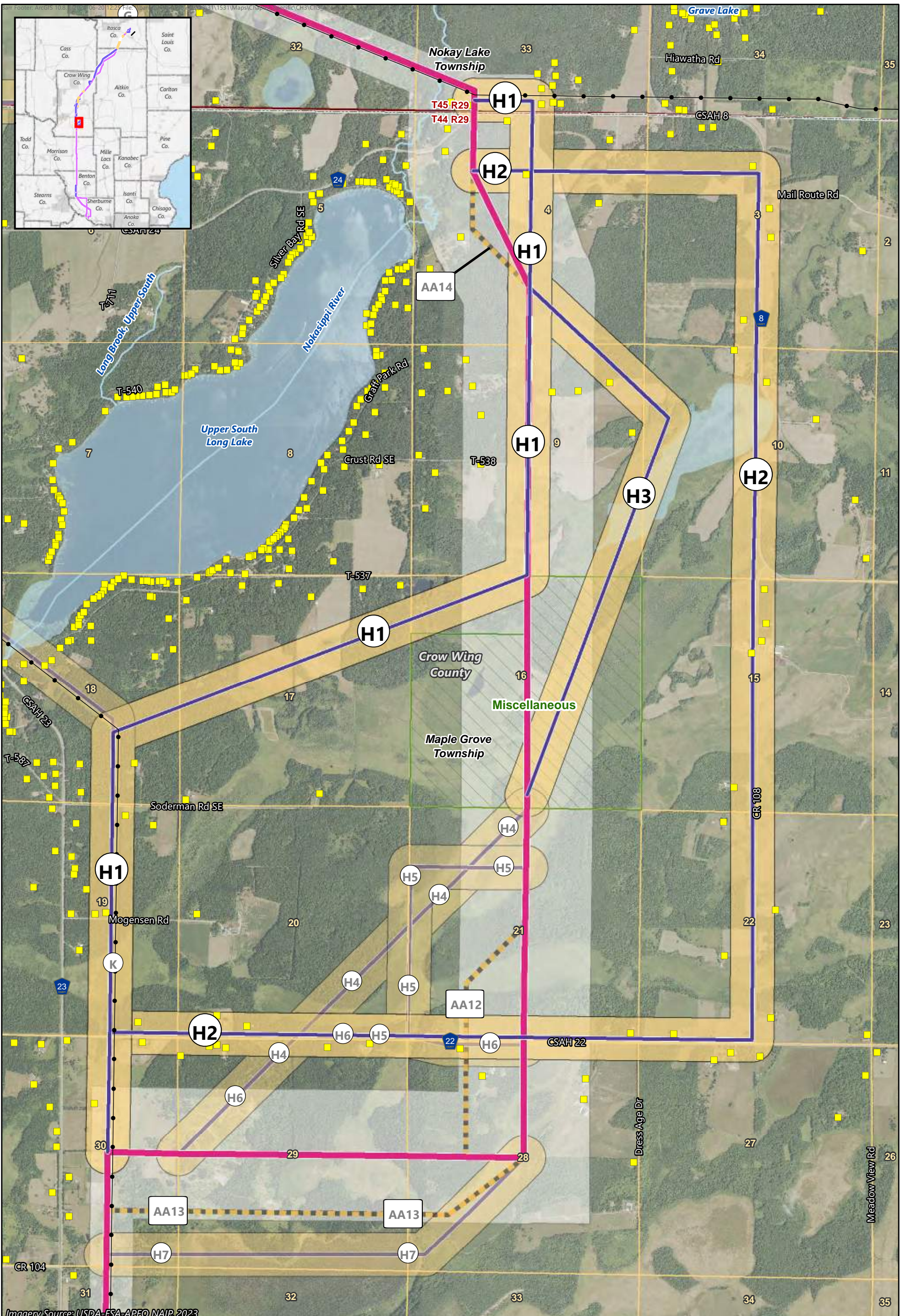
Imagery Source: USDA-FSA-APFO NAIP, 2023

-  Applicants' Proposed Route
-  Existing Transmission Line
-  Route Width
-  Residence
-  Route Alternative
-  PWI Waterway
-  Alignment Alternative
-  Route Alternative Width













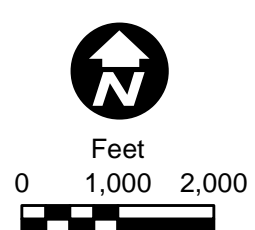
Map 3A-18

ROUTE ALTERNATIVE G
 Cole Lake/Riverton Region
 Northland Reliability Project

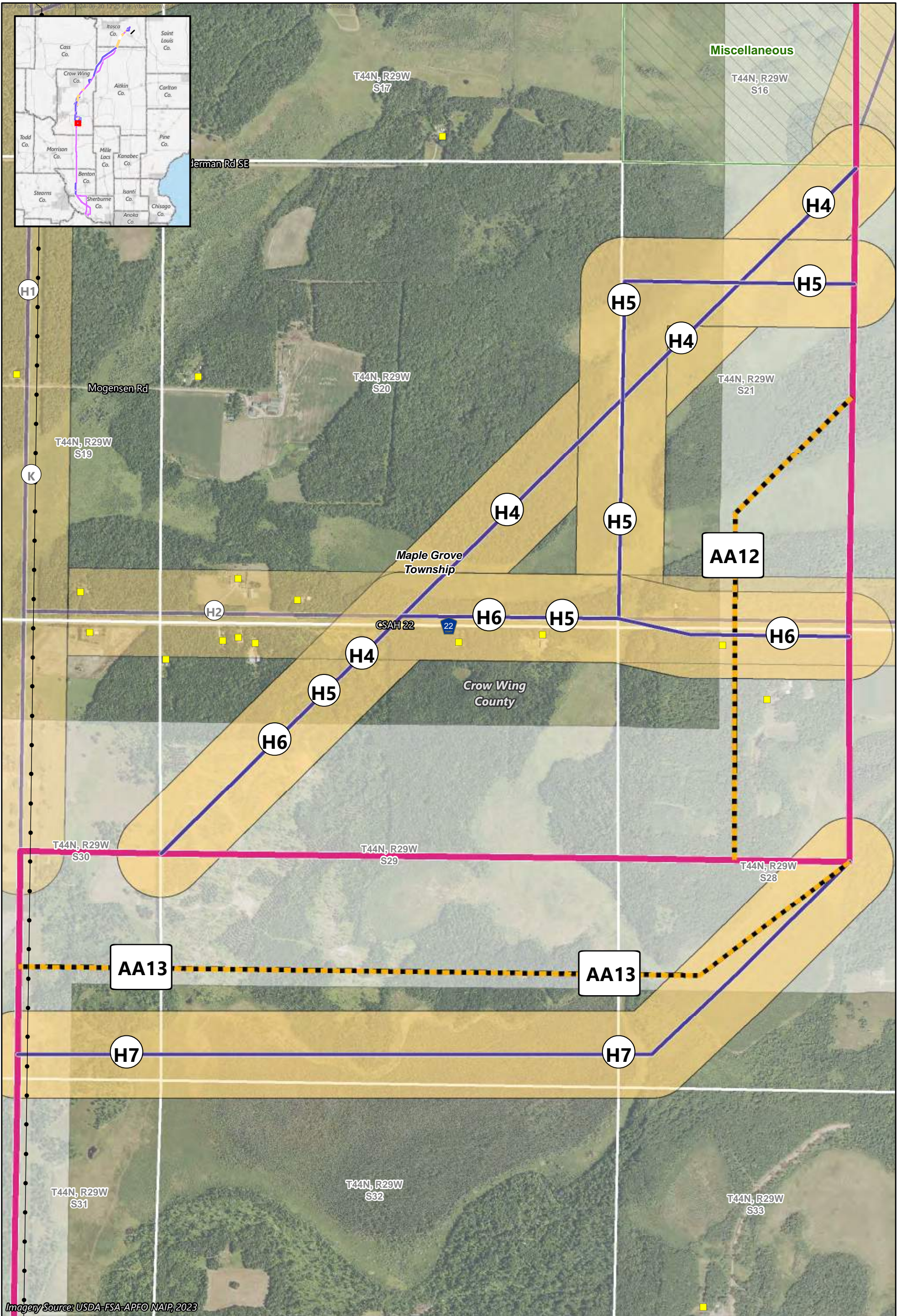


Imagery Source: USDA-FSA-APFO NAIP, 2023









-  Applicants' Proposed Route
-  Existing Transmission Line
-  Route Width
-  Residence
-  Route Alternative
-  PWI Waterway
-  Alignment Alternative
-  PWI Basin
-  Route Alternative Width
-  Other DNR Land

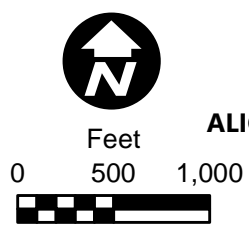


Map 3A-19
ROUTE ALTERNATIVES H1 - H3
 Long Lake Region
 Northland Reliability Project



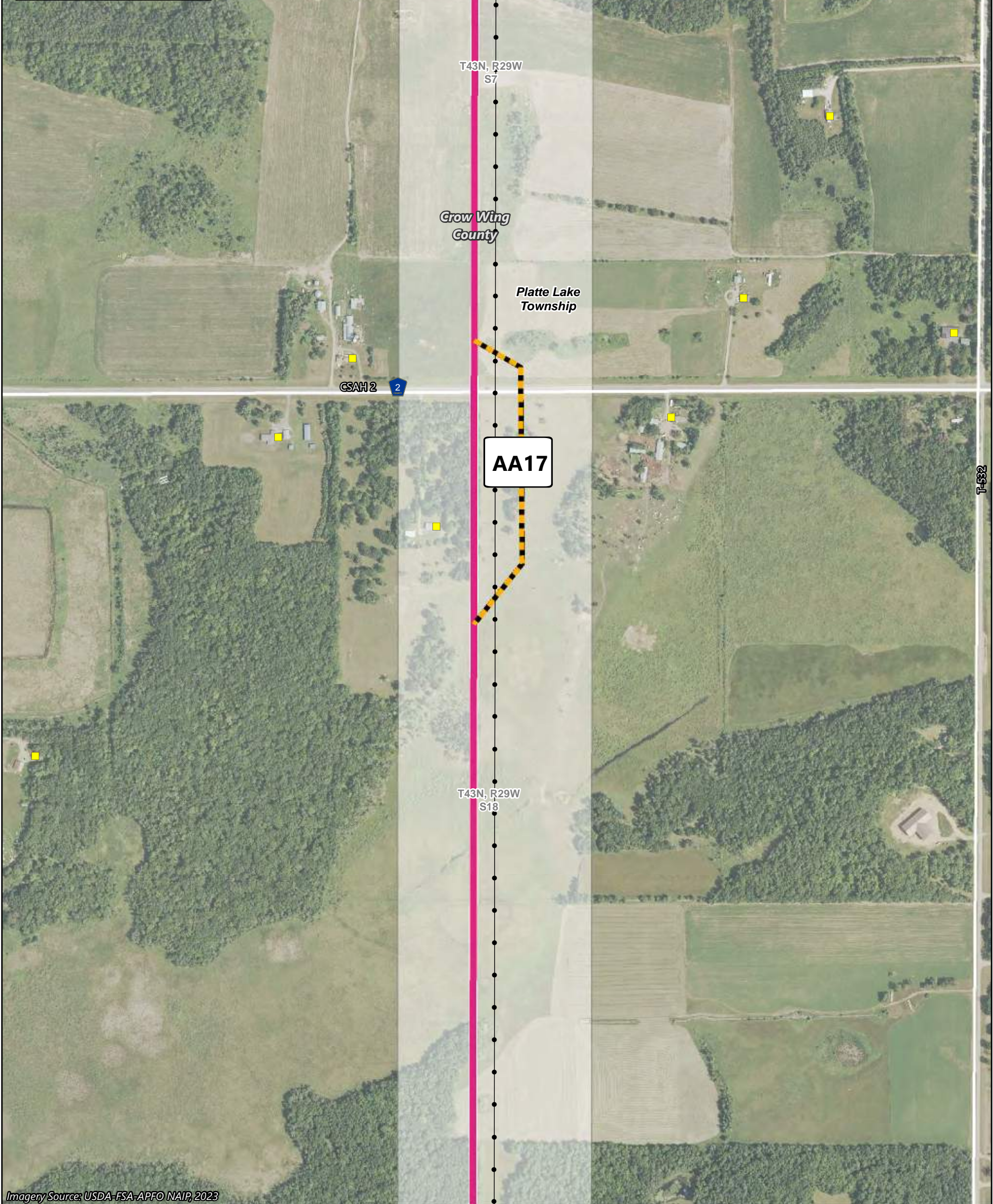
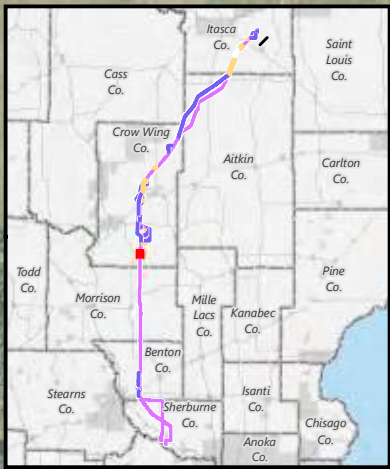
Imagery Source: USDA-FSA-APFO NAIP, 2023

-  Applicants' Proposed Route
-  Existing Transmission Line
-  Route Width
-  Residence
-  Route Alternative
-  Other DNR Land
-  Alignment Alternative
-  Route Alternative Width










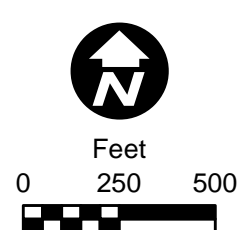
Map 3A-20

**ROUTE ALTERNATIVES H4 - H7 AND
ALIGNMENT ALTERNATIVES AA12 AND AA13**
Long Lake Region
Northland Reliability Project

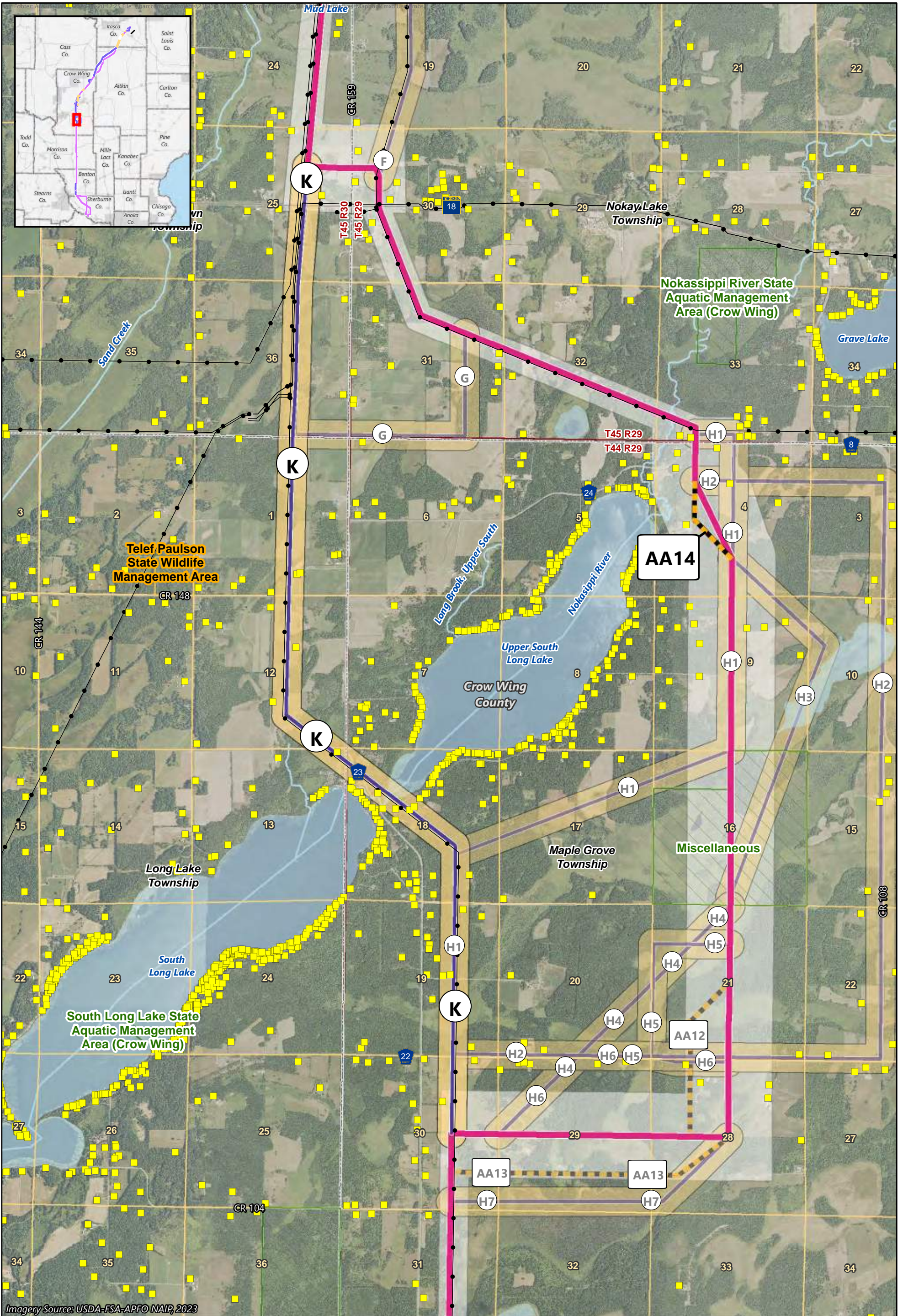


Imagery Source: USDA-FSA-APFO NAIP, 2023

-  Applicants' Proposed Route
-  Existing Transmission Line
-  Route Width
-  Residence
-  Route Alternative
-  Alignment Alternative
-  Route Alternative Width

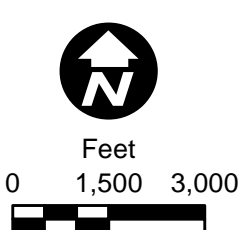


Map 3A-21
ALIGNMENT ALTERNATIVE AA17
 Long Lake Region
 Northland Reliability Project

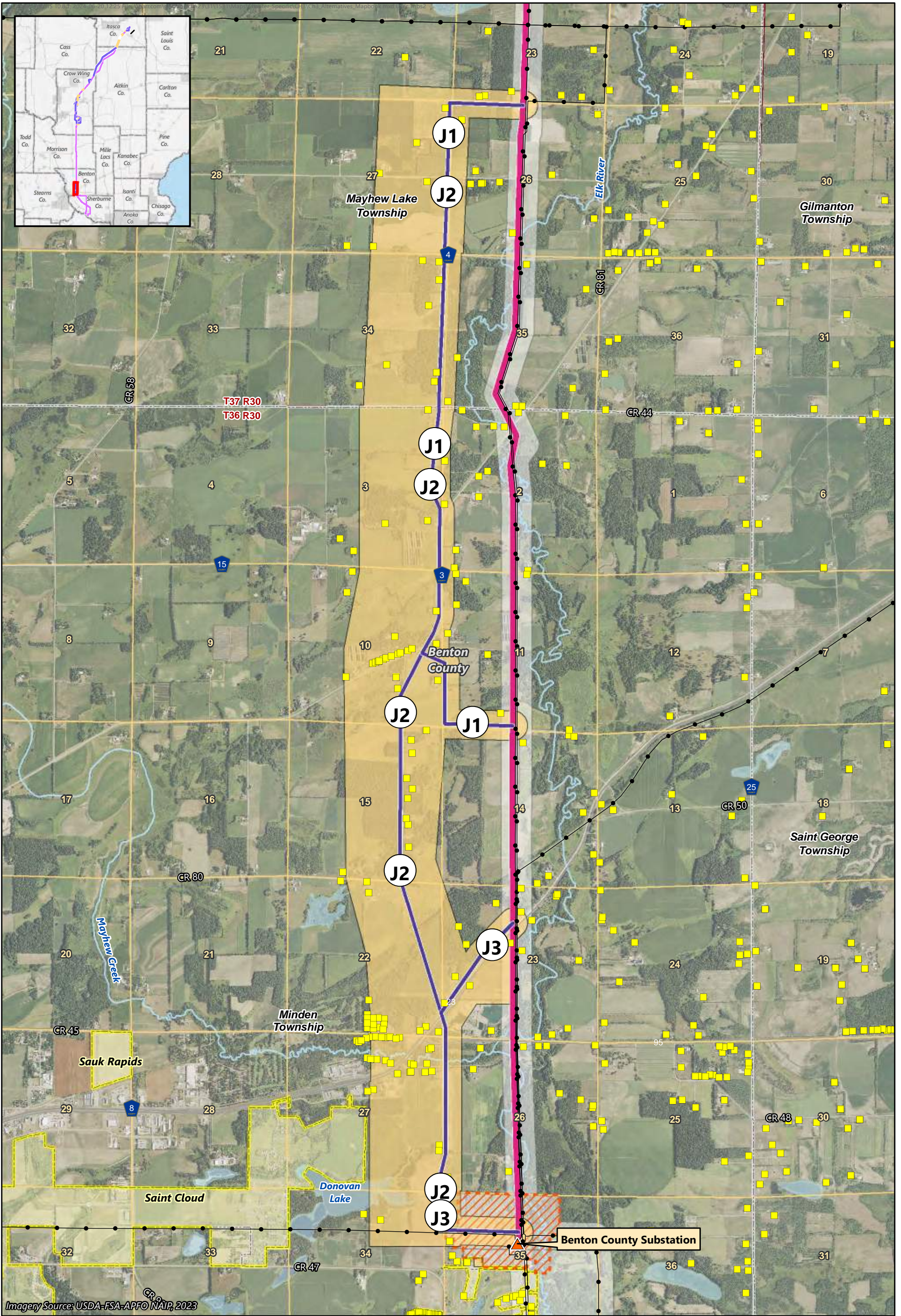


Imagery Source: USDA-FSA-APFO NAIP, 2023








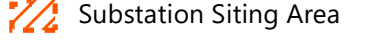




- Applicants' Proposed Route
- Route Width
- Route Alternative
- Alignment Alternative
- Route Alternative Width
- Existing Transmission Line
- Residence
- PWI Waterway
- PWI Basin
- State WMA
- Other DNR Land

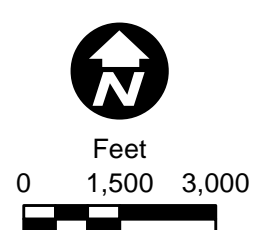


Map 3A-22
**ROUTE ALTERNATIVE K AND
 ALIGNMENT ALTERNATIVE AA14**
 Long Lake Region
 Northland Reliability Project



Imagery Source: USDA-FSA-APFO NAIP, 2023

-  Applicants' Proposed Route
-  Route Width
-  Route Alternative
-  Alignment Alternative
-  Route Alternative Width
-  Existing Transmission Line
-  Benton County Substation
-  Substation Siting Area
-  Residence
-  PWI Waterway
-  PWI Basin
-  Municipal Boundary



Map 3A-23
ROUTE ALTERNATIVES J1 - J3
Benton County Elk River Region
Northland Reliability Project