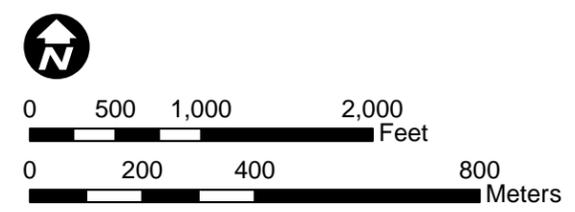


Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:21 File: I:\Projects\2346\1023\Maps\Reports\Draft_EIS\Sections\Section 03\Map 3-05 - Associated Facilities - Route I90-4.mxd User: amm

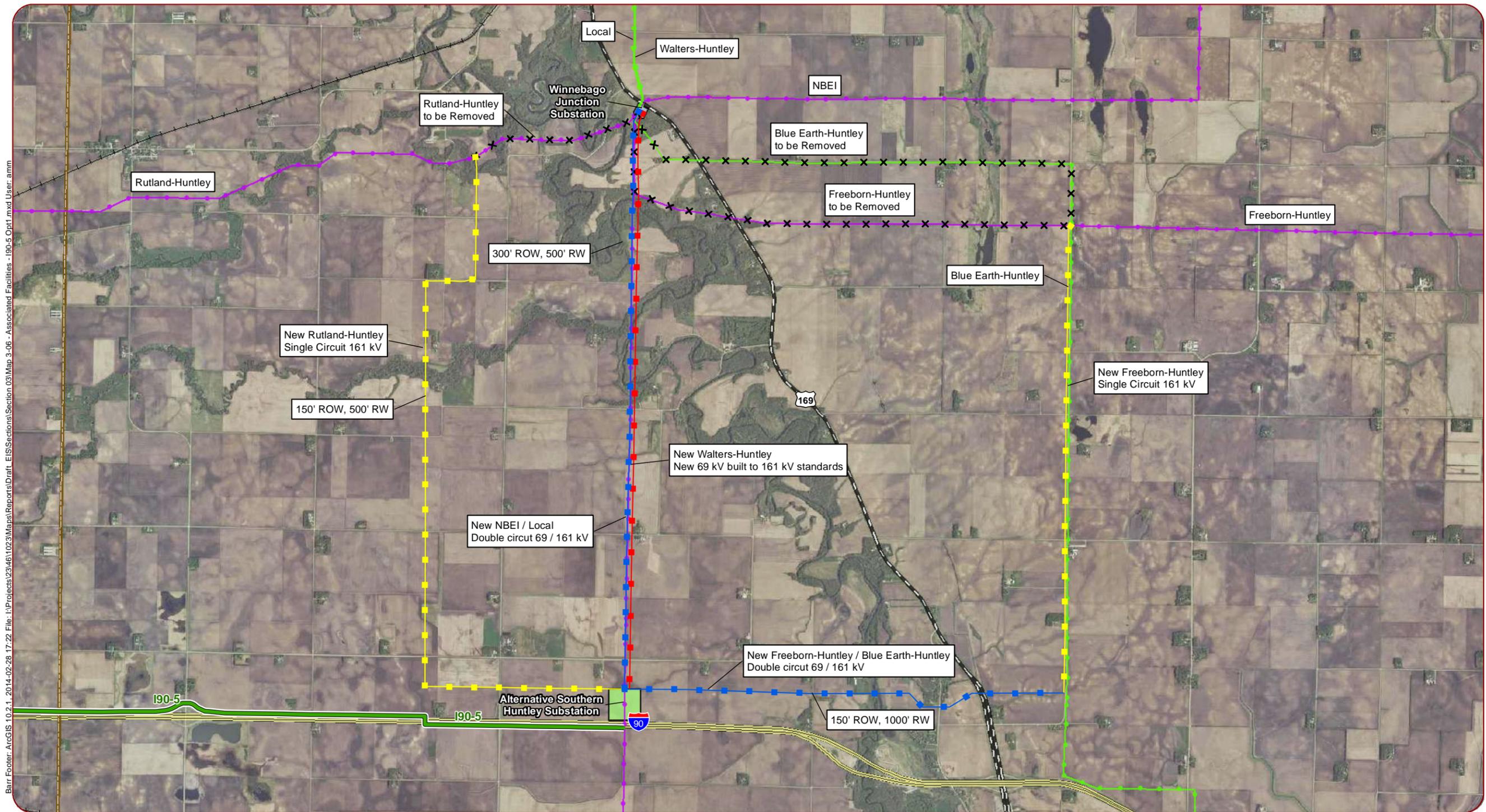


- | Route Alternative | |
|-------------------|---|
| | I90-4 |
| | Proposed Huntley Substation |
| | Winnebago Junction Substation |
| | Existing 69 kV Line |
| | Existing 161 kV Line |
| | New 161kV Single Circuit |
| | New Double Circuit 69/161kV |
| | New 69kV Built to 161kv Standards |
| | Existing 69kV or 161kV Line To be Removed |

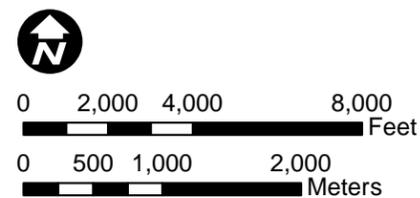
Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-5

**Associated Facilities -
Route Alternative I90-4**
Minnesota-Iowa 345 kV
Transmission Project
ITC Midwest LLC



Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:22 File: I:\Projects\23\461023\Maps\Reports\Draft_EIS\Sections\Section 03\Map 3-06 - Associated Facilities - I90-5 Opt1.mxd User: amm



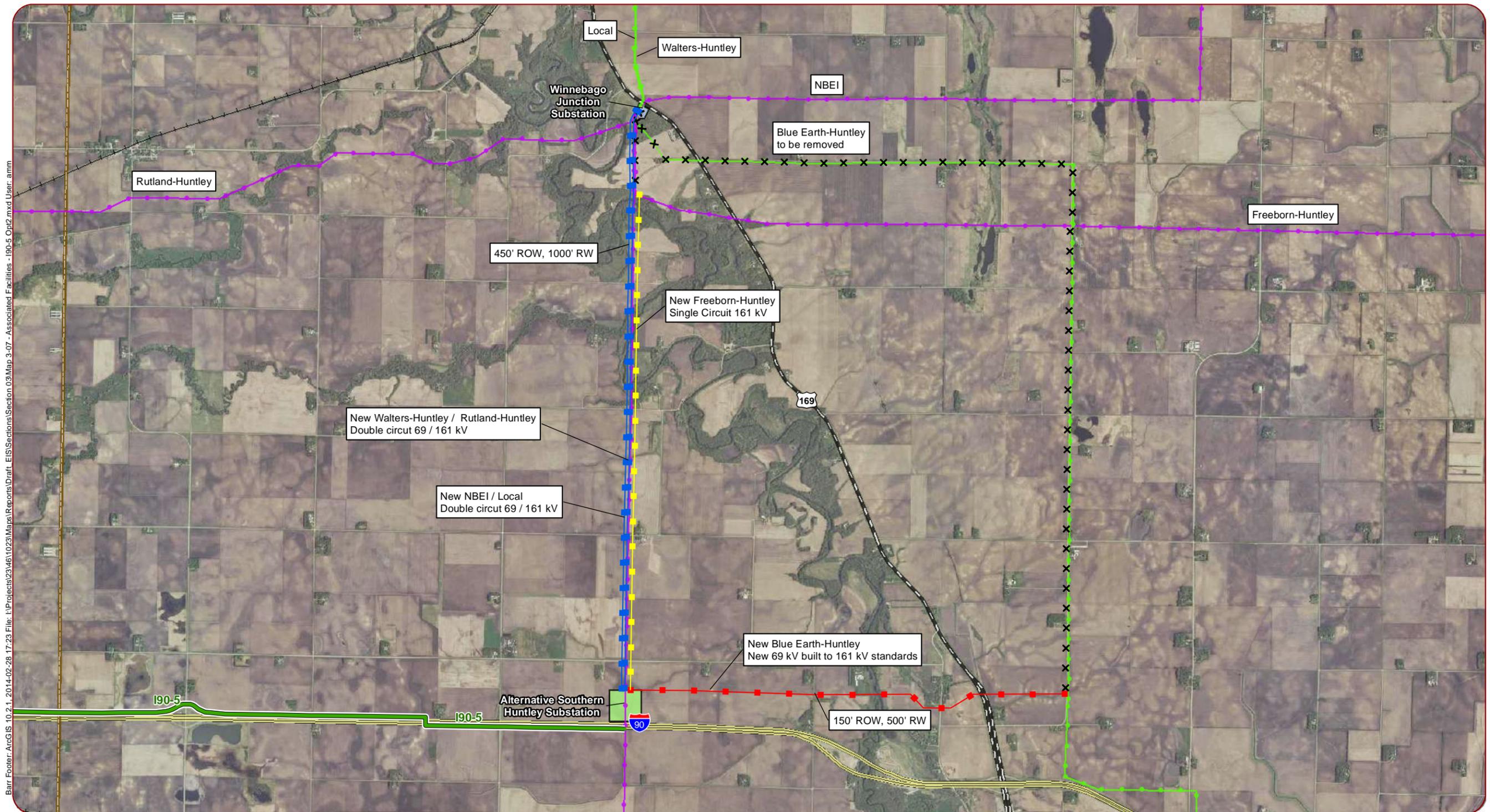
- Route Alternative**
- █ I90-5 (Option 1)
 - Alternative Southern Huntley Substation
 - Winnebago Junction Substation

- Existing 69 kV Line
- Existing 161 kV Line
- - - New 161kV Single Circuit
- - - New Double Circuit 69/161kV
- - - New 69kV Built to 161kv Standards
- + + Existing 69kV or 161kV Line To be Removed

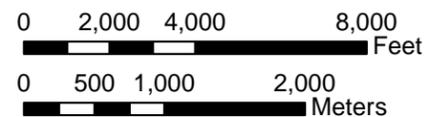
Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-6

**Associated Facilities -
Route Alternative I90-5 Option 1
Minnesota-Iowa 345 kV
Transmission Project
ITC Midwest LLC**



Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:23 File: I:\Projects\2346\1023\Maps\Reports\Draft_EIS\Sections\Section 03\Map 3-07 - Associated Facilities - I90-5 Op2.mxd User: amm



Route Alternative

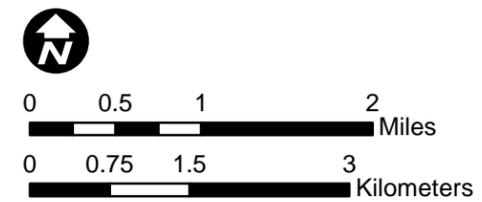
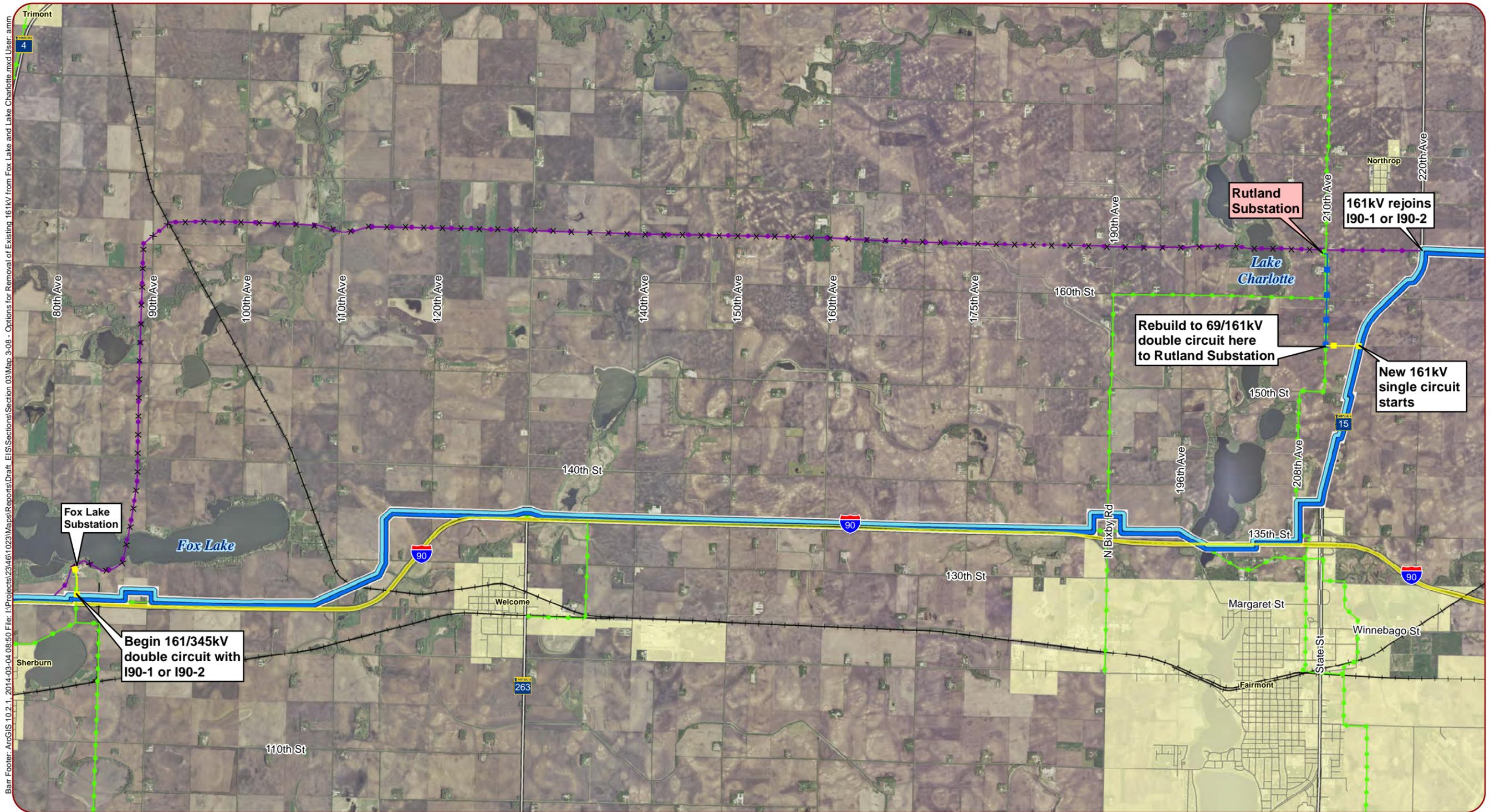
- I90-5 (Option 2)
- Alternative Southern Huntley Substation
- Winnebago Junction Substation

- Existing 69 kV Line
- Existing 161 kV Line
- New 161kV Single Circuit
- New Double Circuit 69/161kV
- New 69kV Built to 161kV Standards
- Existing 69kV Line To be Removed

Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-7

**Associated Facilities -
Route Alternative I90-5 Option 2**
Minnesota-Iowa 345 kV
Transmission Project
ITC Midwest LLC

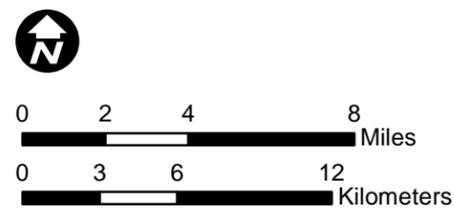
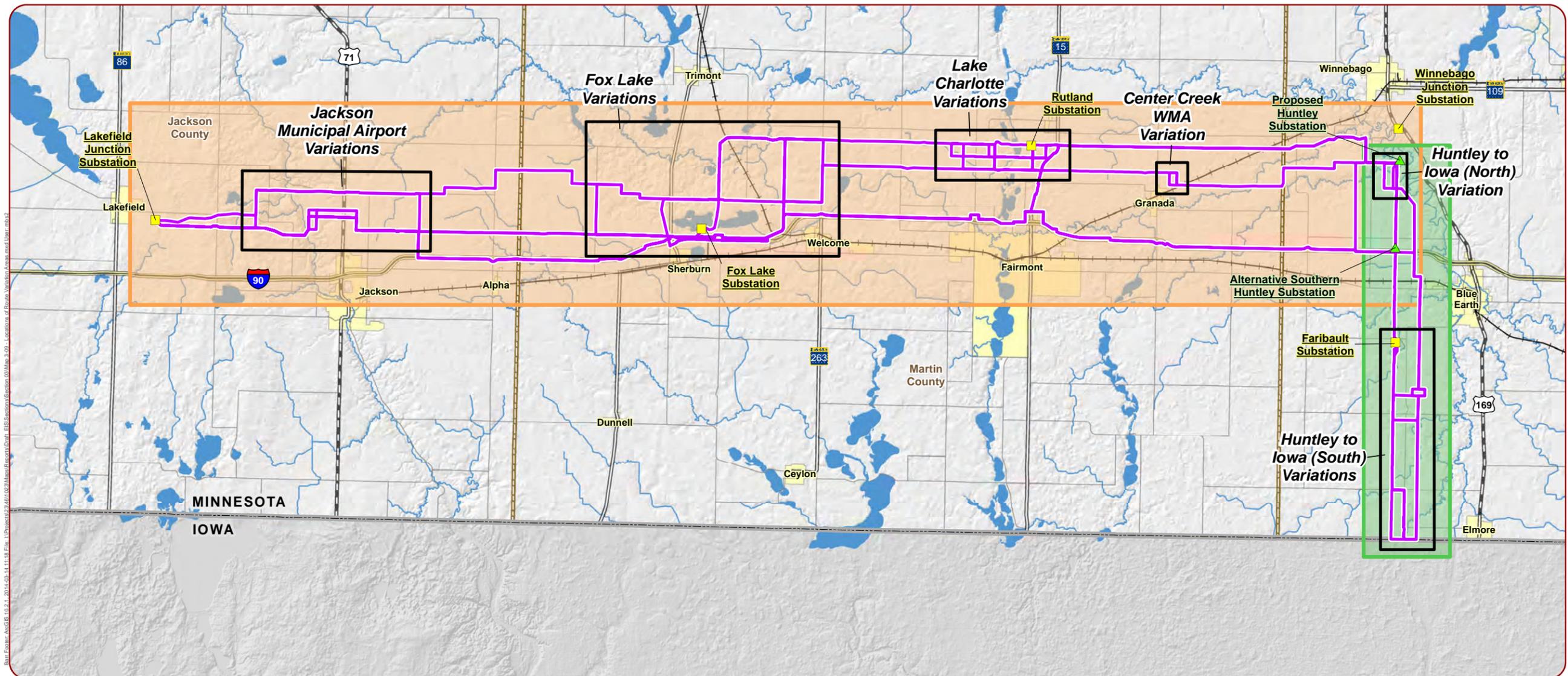


- Route Alternatives**
- I90-1
 - I90-2
 - Existing 69 kV Line
 - Existing 161 kV Line
 - New 161kV Single Circuit
 - New Double Circuit 69/161kV
 - + + Existing 161kV Line to be Removed

Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-8

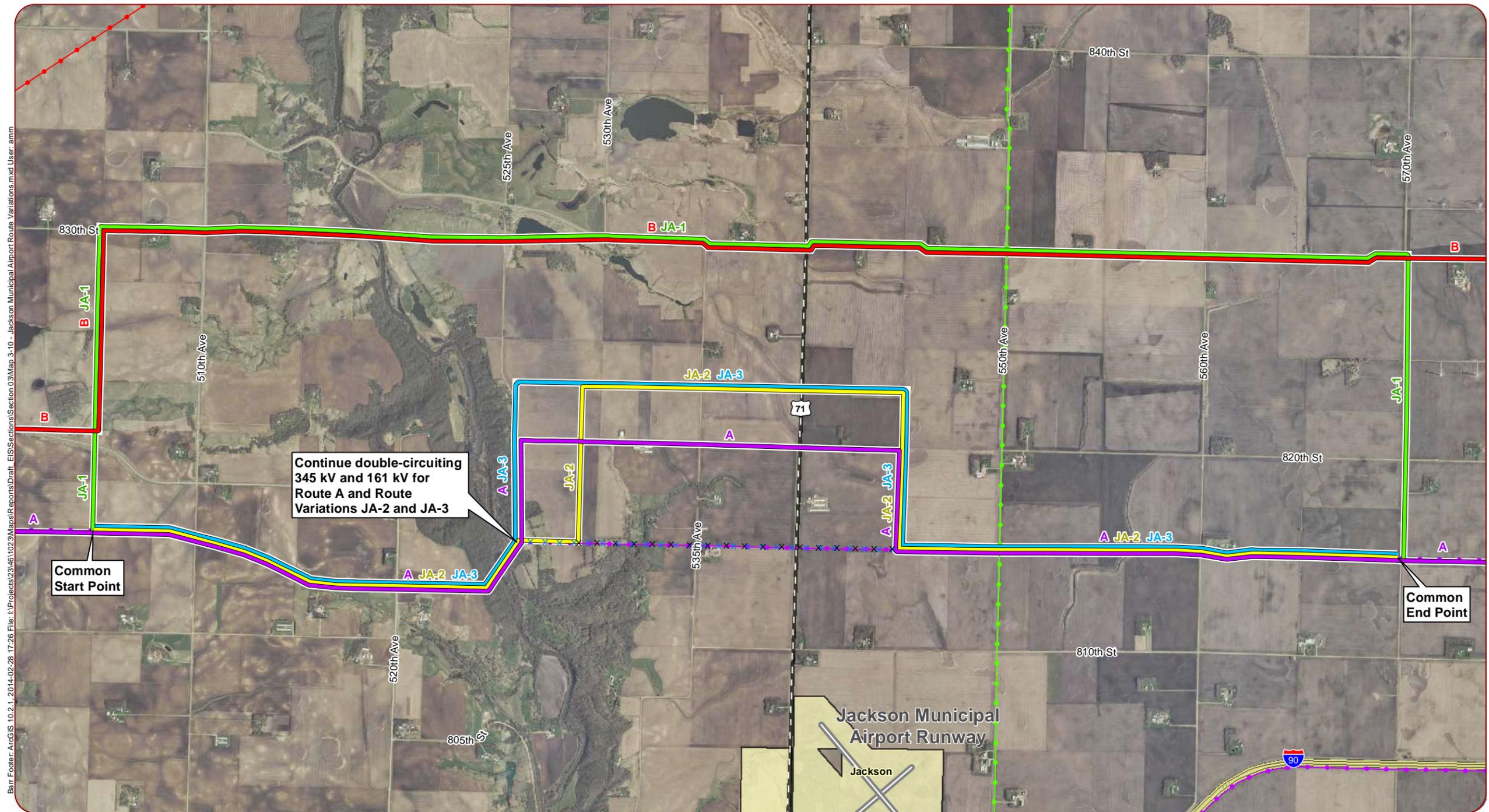
Options for Removal of Existing 161kV Lines from Fox Lake and Lake Charlotte
Minnesota-Iowa 345 kV Transmission Project
ITC Midwest LLC



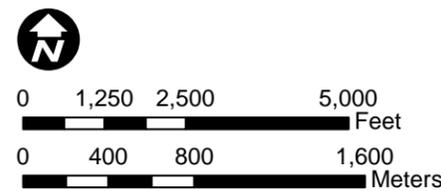
- Routing Options Evaluated in EIS
- Existing Substation
- ▲ Potential New Substation
- Segment 1: Lakefield to Huntley
- Segment 2: Huntley to Iowa Border
- Route Variation Area
- Municipal Boundary
- County Boundary
- State Boundary

Map 3-9

Locations of Route Variation Areas
 Minnesota-Iowa 345 kV
 Transmission Project
 ITC Midwest LLC



Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:26 File: I:\Projects\23461023\Map\Reports\Draft_EIS\Sections\Section 03\Map 3-10 - Jackson Municipal Airport Route Variations.mxd User: ammm



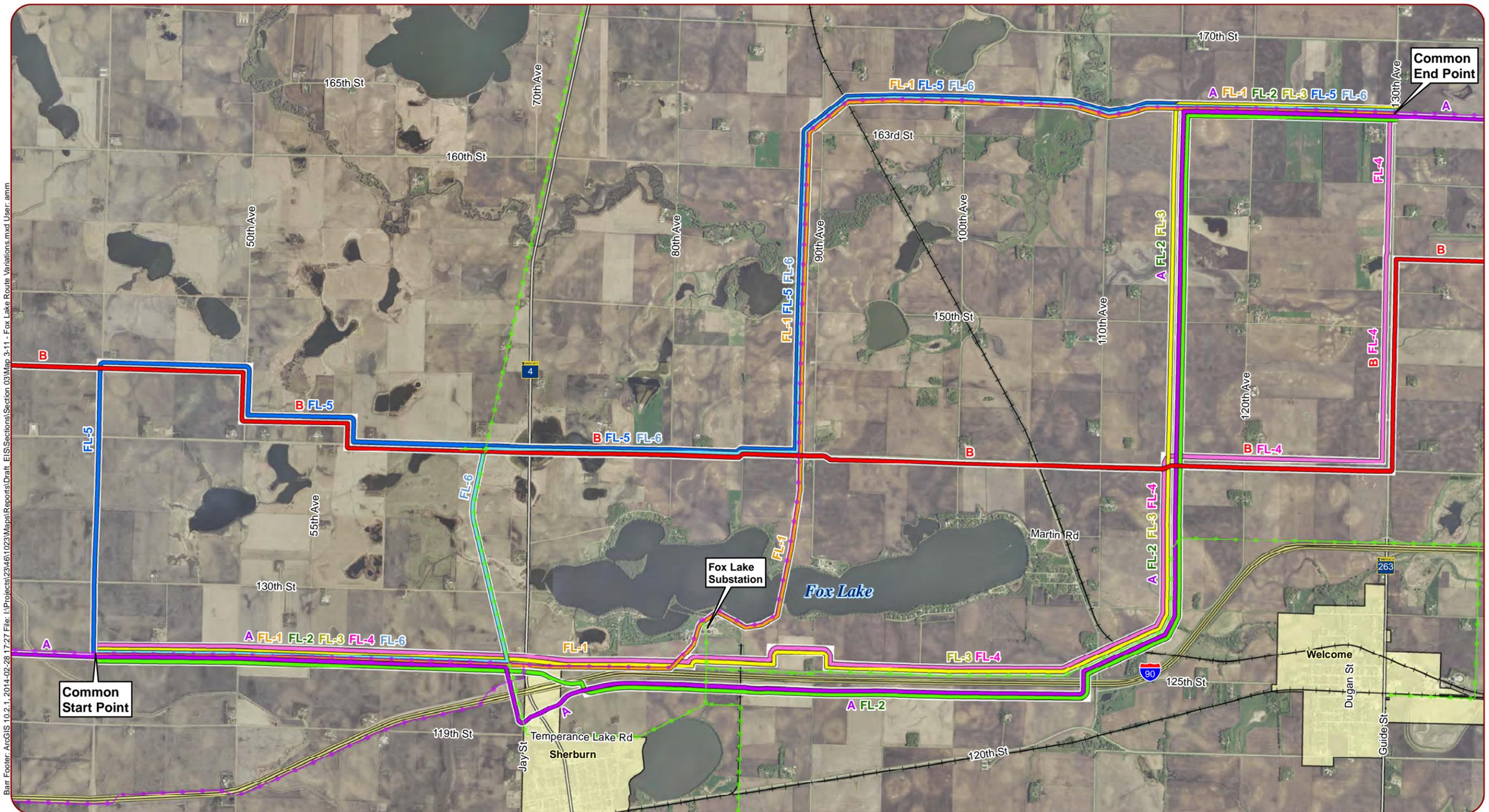
- | | |
|-------------------------|--|
| Routes | Existing 69 kV Line |
| A | Existing 161 kV Line |
| B | Existing 345 kV Line |
| Route Variations | Existing 161kV Line to be Removed in Conjunction with Route Variation JA-2 |
| JA-1 | Existing 161kV Line to be Removed in Conjunction with Route A and Route Variation JA-3 |
| JA-2 | |
| JA-3 | |

- Jackson Municipal Airport Runway
- Municipal Boundary

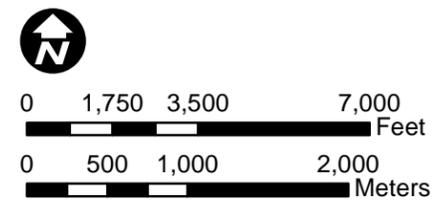
Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-10

Jackson Municipal Airport Route Variations
Minnesota-Iowa 345 kV
Transmission Project
ITC Midwest LLC



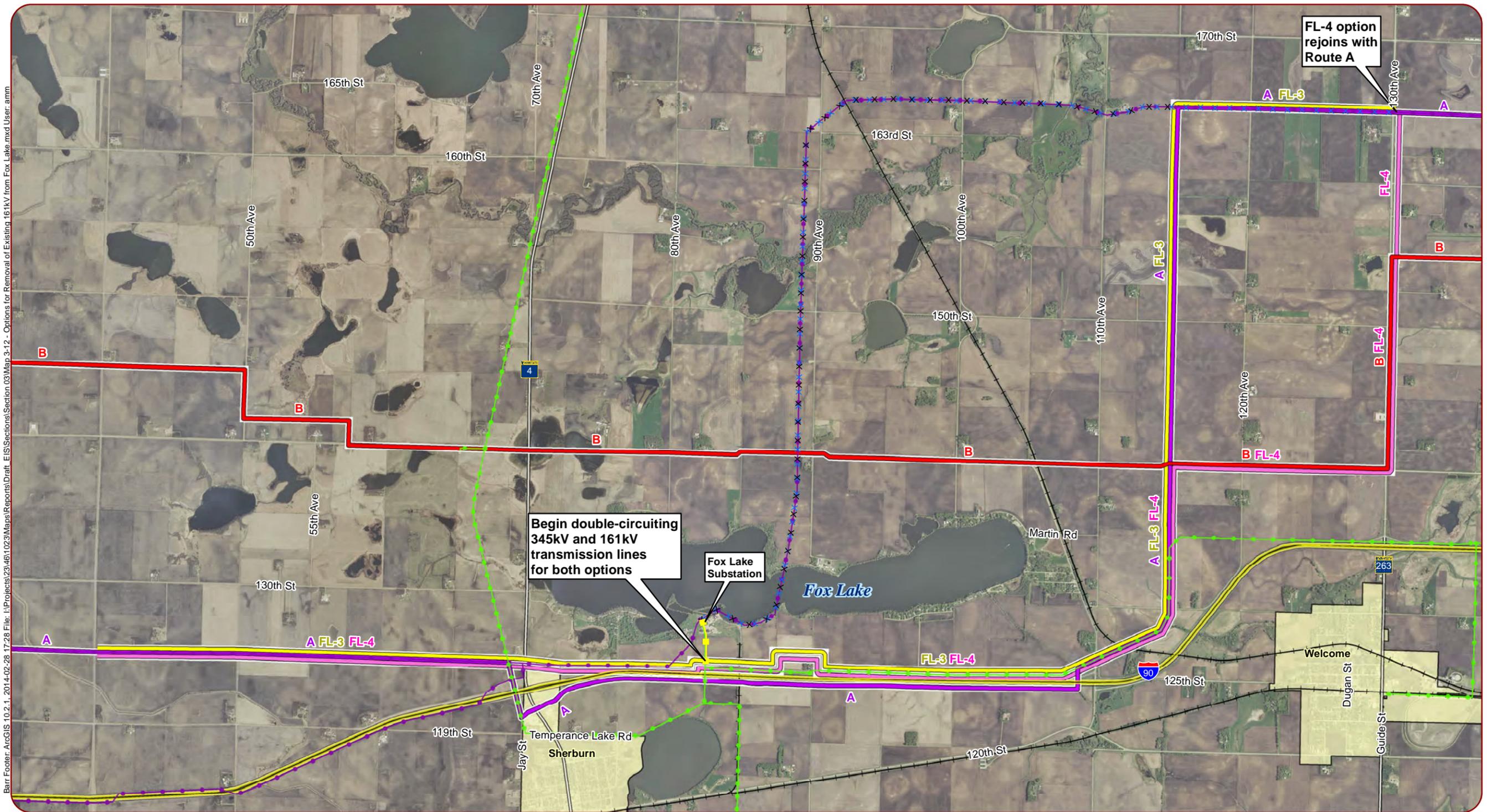
Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:27 File: I:\Projects\2346\1023\Maps\Reports\Draft_EIS\Sections\Section 03\Map 3-11 - Fox Lake Route Variations.mxd User: ammm



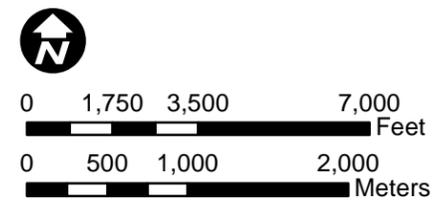
- | Routes | Route Variations | Existing 69 kV Line |
|--------|------------------|----------------------|
| A | FL-1 | Existing 69 kV Line |
| B | FL-2 | Existing 161 kV Line |
| | FL-3 | |
| | FL-4 | |
| | FL-5 | |
| | FL-6 | |

Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-11
Fox Lake Route Variations
Minnesota-Iowa 345 kV
Transmission Project
ITC Midwest LLC



Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:28 File: I:\Projects\2346\1023\Maps\Reports\Draft_EIS\Sections\Section 03\Map 3-12 - Options for Removal of Existing 161kV from Fox Lake.mxd User: amm

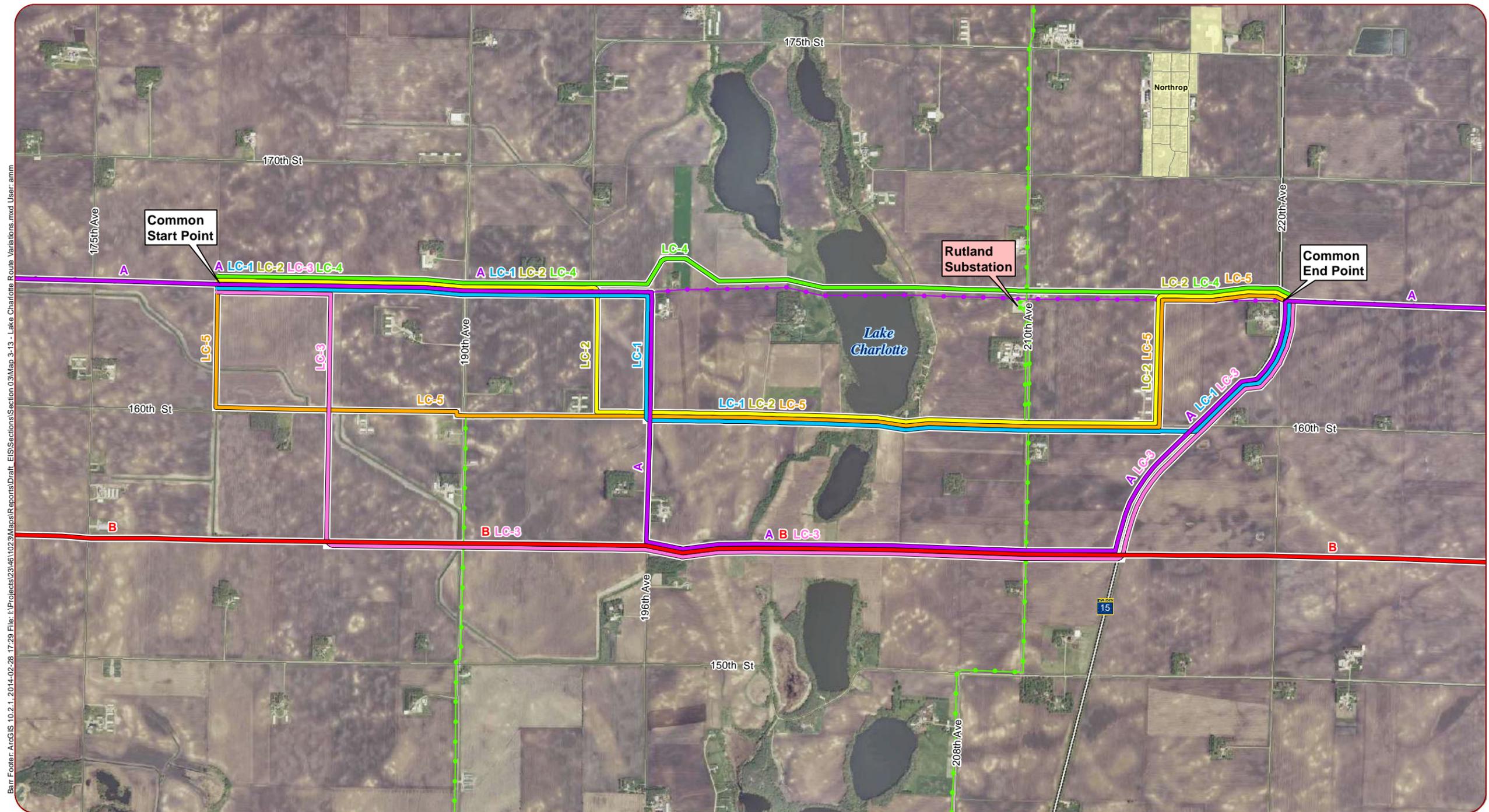


- | | |
|-------------------------|--|
| Routes | Existing 69 kV Line |
| A | Existing 161 kV Line |
| B | New 161kV Single Circuit |
| Route Variations | Existing 161kV Line to be Removed in Conjunction with FL-3 |
| FL-3 | Existing 161kV Line to be Removed in Conjunction with FL-4 |
| FL-4 | |

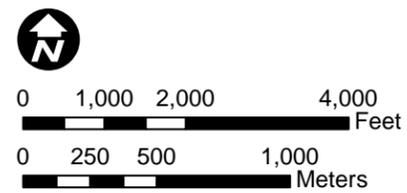
Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-12

Options for Removal of Existing 161kV Line from Fox Lake
Minnesota-Iowa 345 kV Transmission Project
ITC Midwest LLC



Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:29 File: I:\Projects\23461023\Map\Reports\Draft - EIS\Sections\Section 03\Map 3-13 - Lake Charlotte Route Variations.mxd User: ammm

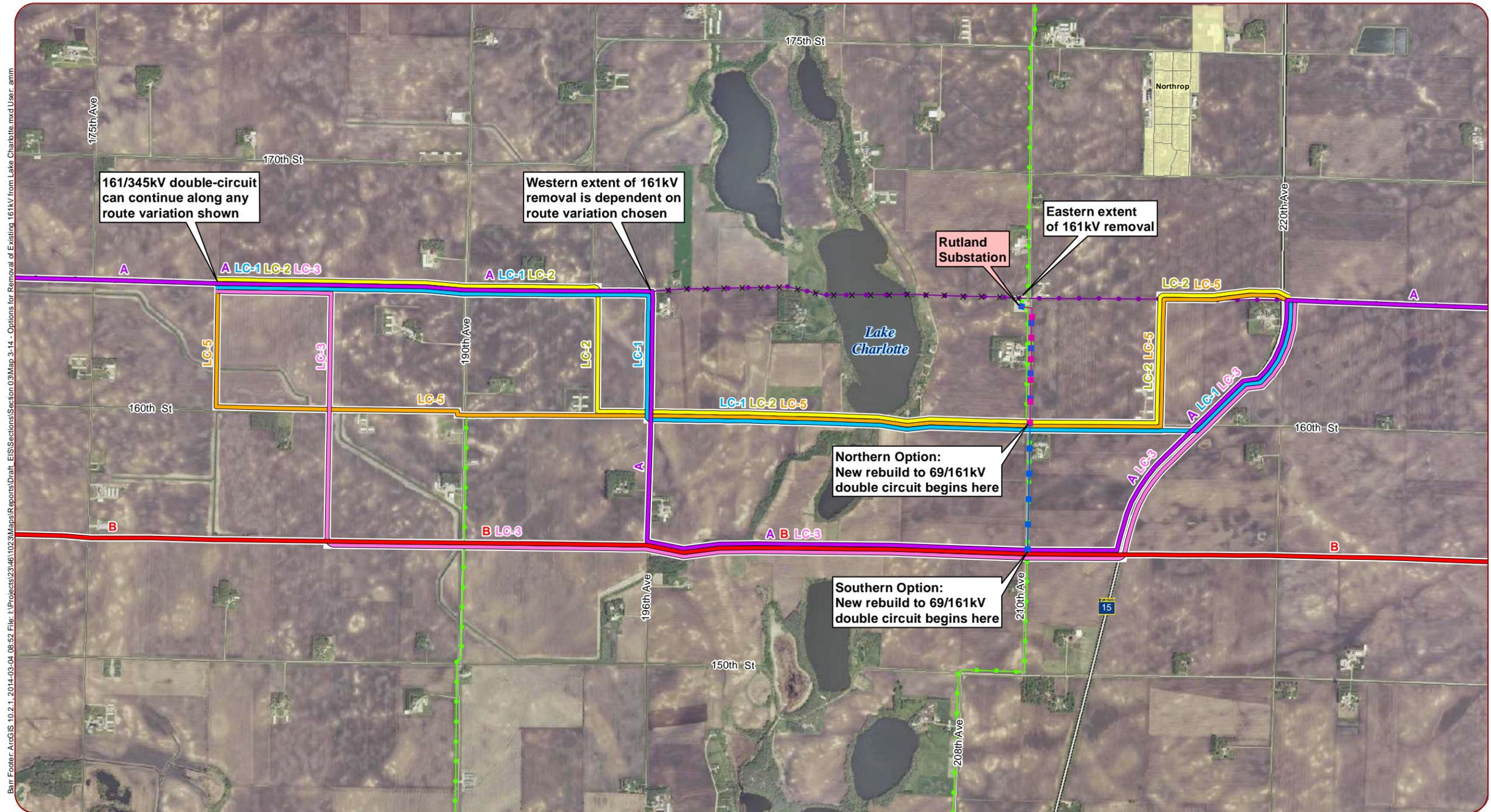


- | | | |
|---------------|-------------------------|----------------------|
| Routes | Route Variations | Existing 69 kV Line |
| A | LC-1 | Existing 161 kV Line |
| B | LC-2 | |
| | LC-3 | |
| | LC-4 | |
| | LC-5 | |

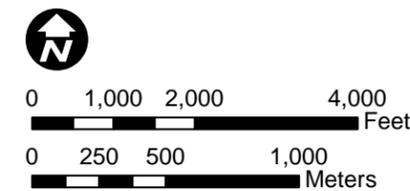
Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-13

Lake Charlotte Route Variations
Minnesota-Iowa 345 kV
Transmission Project
ITC Midwest LLC



Barr Footer: ArcGIS 10.2.1, 2014-05-04 08:52 File: L:\Projects\2346102\Map\Reports\Draft_EIS\Sections\Section 03\Map 3-14 - Options for Removal of Existing 161kV from Lake Charlotte.mxd User: ammm



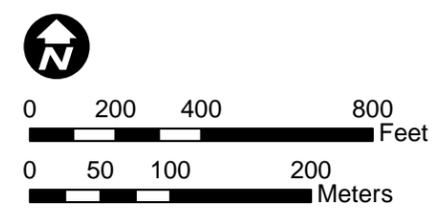
- | | | | |
|---------------|-------------------------|--|--|
| Routes | Route Variations | Existing 69 kV Line | Existing 161kV Line to be Removed
(Western extent of removal
dependent upon route
variation chosen) |
| A | LC-1 | Existing 161 kV Line | x x |
| B | LC-2 | New Double-Circuit 69/161kV
if southern Route Variation is used | |
| | LC-3 | New Double-Circuit 69/161kV
if northern (160th St) Route
Variation is used | |
| | LC-5 | | |

Note:
Anticipated alignments are shown
offset for display purposes only.
Please refer to more detailed figures
for precise alignment placement.

Map 3-14
**Options for Removal of Existing
161kV Line from Lake Charlotte**
Minnesota-Iowa 345 kV
Transmission Project
ITC Midwest LLC



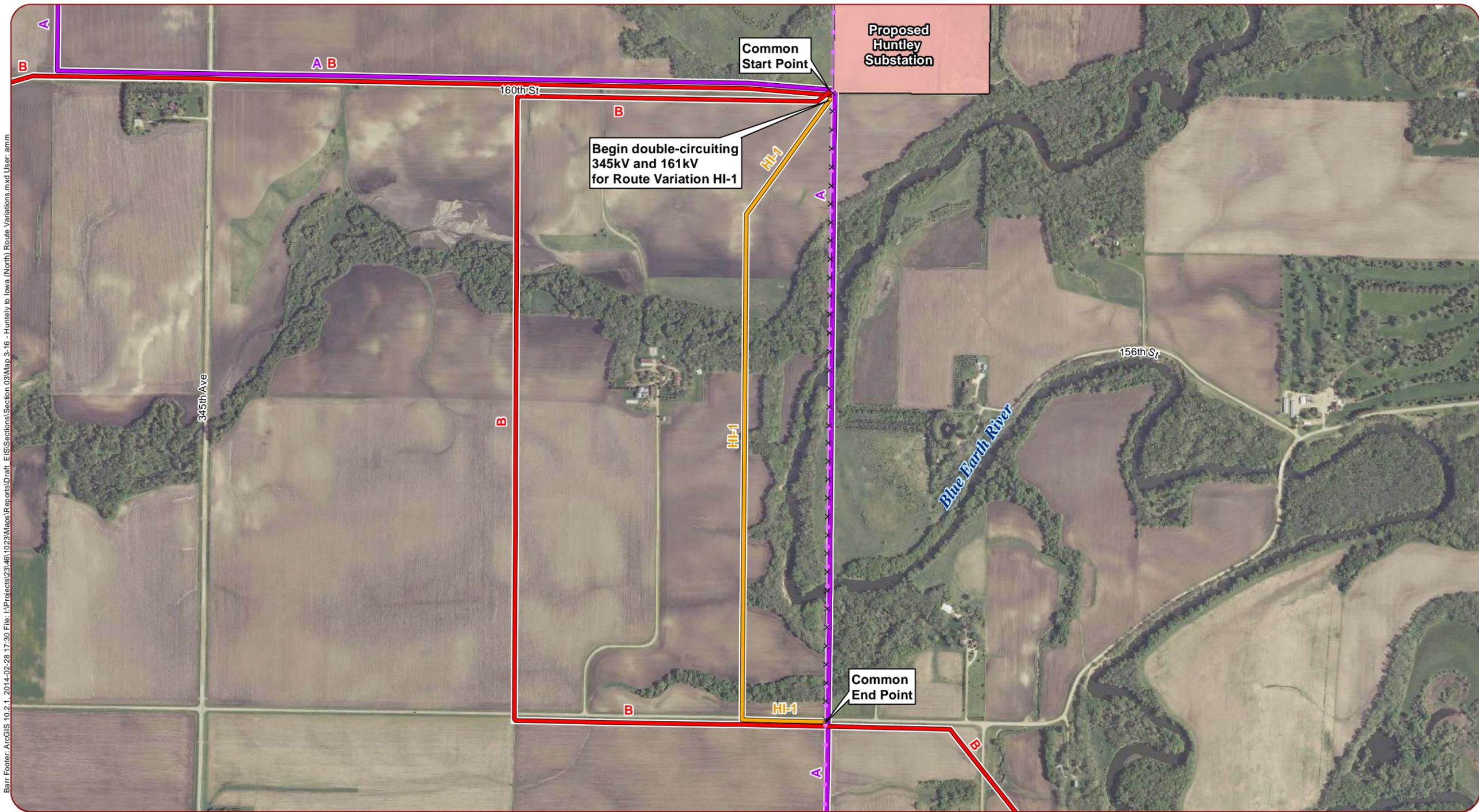
Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:30 File: I:\Projects\2346\1023\Maps\Reports\Draft_EIS\Sections\Section 03\Map 3-15 - Center Creek WMA Route Variations.mxd User: ammm



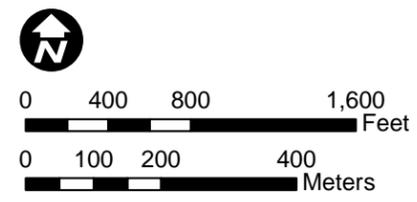
- Route B
- Route Variation CC-1
- State Wildlife Management Area

Map 3-15

Center Creek WMA Route Variations
 Minnesota-Iowa 345 kV
 Transmission Project
 ITC Midwest LLC



Barr Footer: ArcGIS 10.2.1, 2014-02-28 17:30 File: \\Projects\2346\1023\Maps\Reports\Draft EIS\Sections\Section 03\Map 3-16 - Huntley to Iowa (North) Route Variations.mxd User: amm



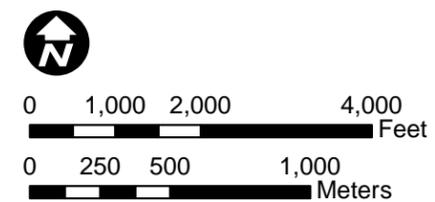
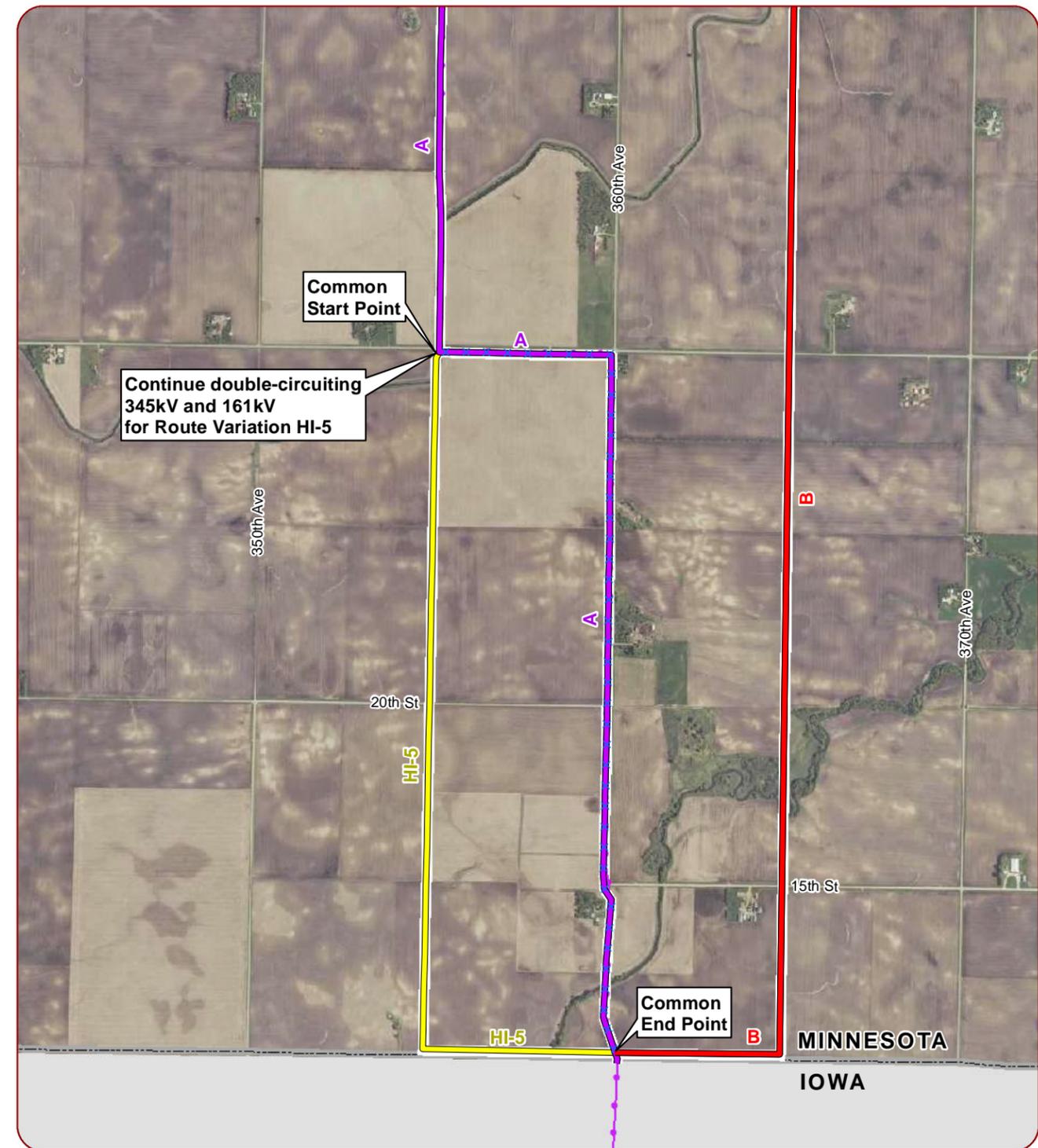
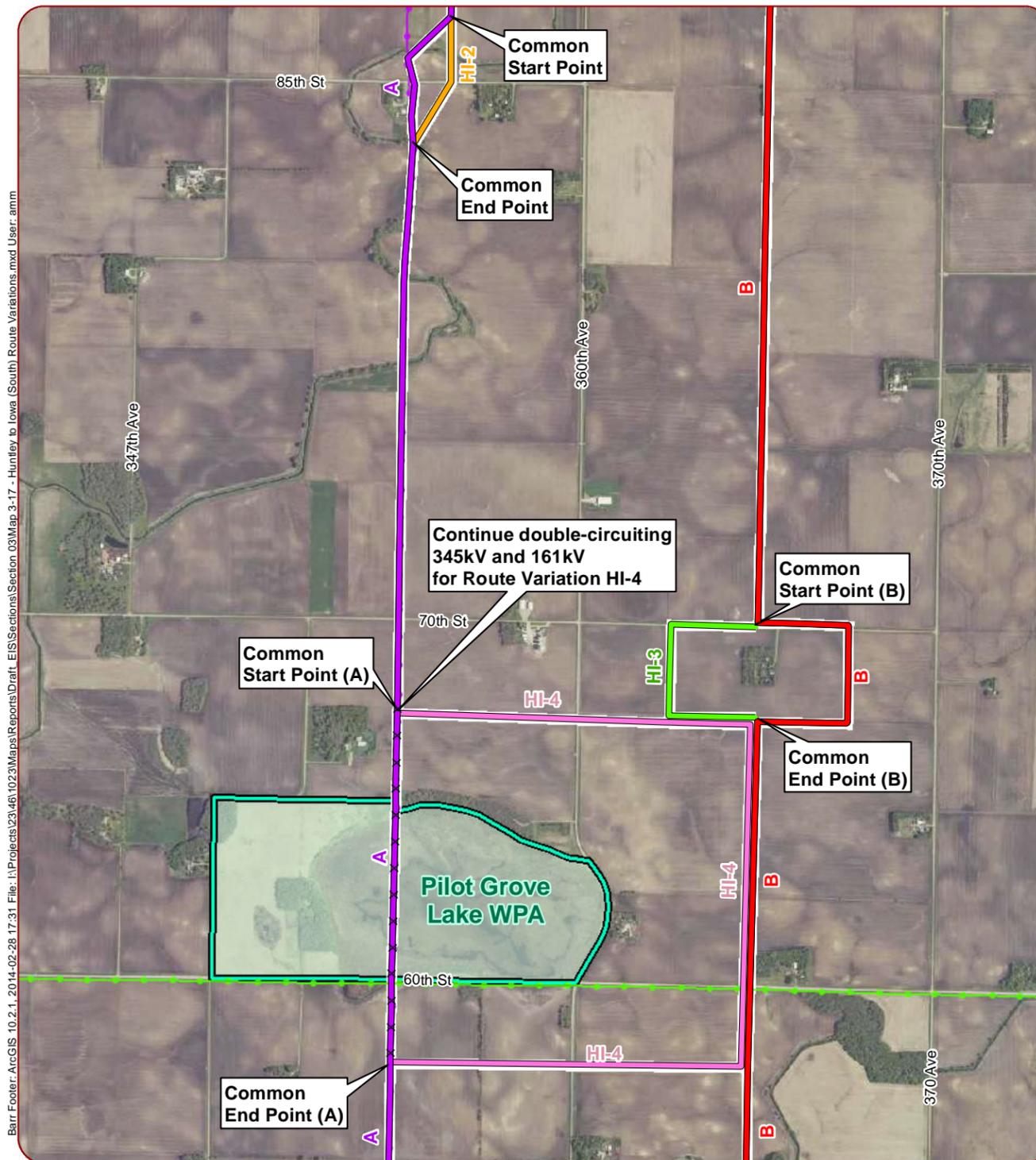
- Routes**
- A
 - B
- Route Variation**
- HI-1
 - Proposed Huntley Substation

- Existing 161 kV Line
- Existing 161kV Line to be Removed in Conjunction with Route Variation HI-1.

Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-16

**Huntley to Iowa Border (North)
Route Variations**
Minnesota-Iowa 345 kV
Transmission Project
ITC Midwest LLC



- | | | |
|---------------|-------------------------|--|
| Routes | Route Variations | Existing 69 kV Line |
| A | HI-2 | Existing 161 kV Line |
| B | HI-3 | Existing 161kV Line to be Removed in Conjunction with Route Variation HI-4 |
| | HI-4 | Existing 161kV Line to be Removed in Conjunction with Route A and Route Variation HI-5 |
| | HI-5 | |

- USFWS Waterfowl Production Area
- State Boundary

Note:
Anticipated alignments are shown offset for display purposes only. Please refer to more detailed figures for precise alignment placement.

Map 3-17

Huntley to Iowa Border (South) Route Variations
Minnesota-Iowa 345 kV Transmission Project
ITC Midwest LLC

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