Fredrikson

Fredrikson & Byron, P.A.
Attorneys and Advisors

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Bismarck, ND 58501-1215
Main: 701.221.8700
fredlaw.com

January 30, 2024

HAND DELIVERED

Mr. Steve Kahl
Executive Secretary Director
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480

RE: Case No. PU-22-391
SCS Carbon Transport LLC
Midwest Carbon Express Project
Response to Supplemental Filings 3.1.1 & 3.1.2

Dear Mr. Kahl:

On October 17, 2023, the North Dakota Public Service Commission ("Commission") submitted certain supplemental filings ("Supplemental Filings") and data requests ("Data Requests") to SCS Carbon Transport LLC ("Summit") in the above-referenced case. *See* Docket No. 409. Summit timely filed its response to the Data Requests on October 31, 2023. *See* Docket No. 411. The Commission requested Summit to provide the Supplemental Filings "at such time that it believes it has sufficient data and supporting documentation to adequately address the requested filings." *See* Docket No. 409.

Summit believes it has sufficient data and supporting documentation in response to Supplemental Filings 3.1.1 and 3.1.2 which request:

3.1.1 Detailed maps and available survey and studies along the proposed reroutes. The supplemental filing must identify the percentage of land surveyed by county.

3.1.2 Updated agency consultations on the proposed route.

A flash drive containing Summit's response to the foregoing Supplemental Filings is enclosed herewith. Summit will provide hard copies of the responses upon request by the Commission.

Should you have any questions, please advise.

Sincerely,

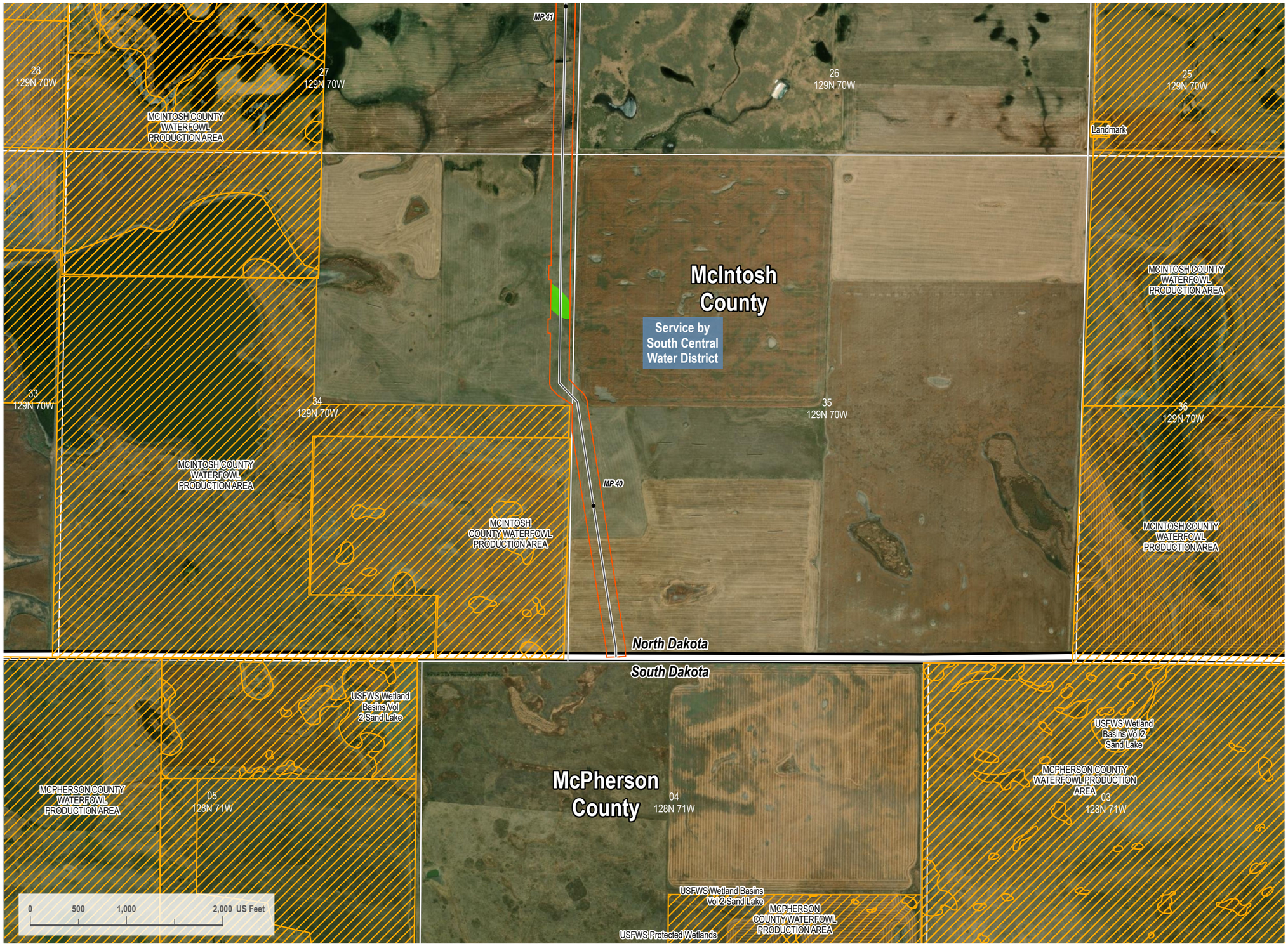
LAWRENCE BENDER

LB/tjg
Enclosures

cc: SCS Carbon Transport LLC

660 PU-22-391 Filed 07/01/2024 Pages: 1425
SCS Exhibit SCS R-5 - 01/30/24 SCS Response to PSC Supp'l Requests 3.1.1., 3.1.2 (Dkt. #435)
SCS Carbon Transport LLC

435 PU-22-391 Filed 01/30/2024 Pages: 1425
Response to Supplemental Filing Requests 3.1.1 & 3.1.2
SCS Carbon Transport LLC
Lawrence Bender, Fredrikson&Byron, P.A.



VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

N

REVISIONS

Date:	Revised by:	Checked by:
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SUMMIT CARBON SOLUTIONS

PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDM-106

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
1
1 of 149

Drawing Number:
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Revision A

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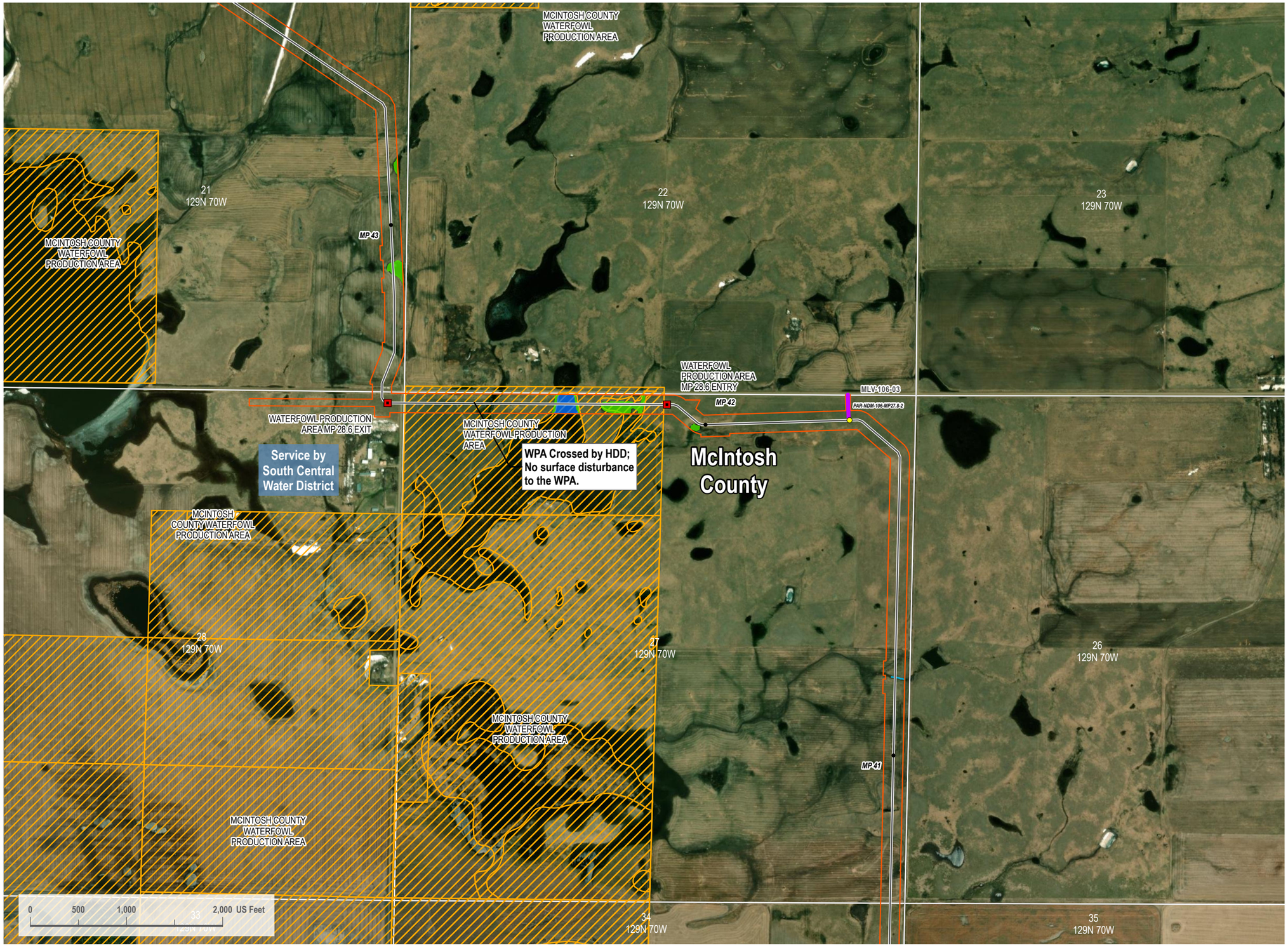
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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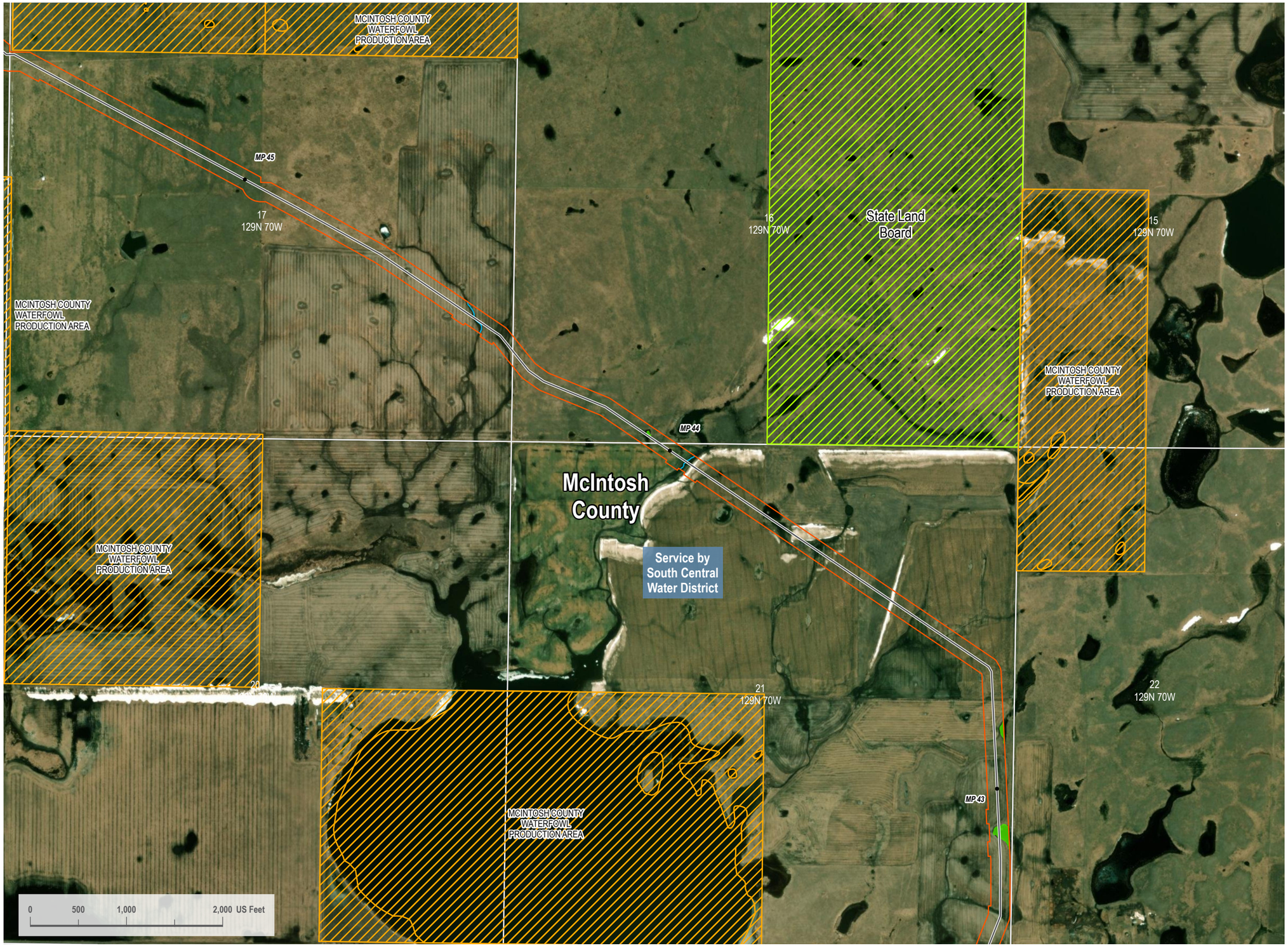

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor
- State Resource Management Area

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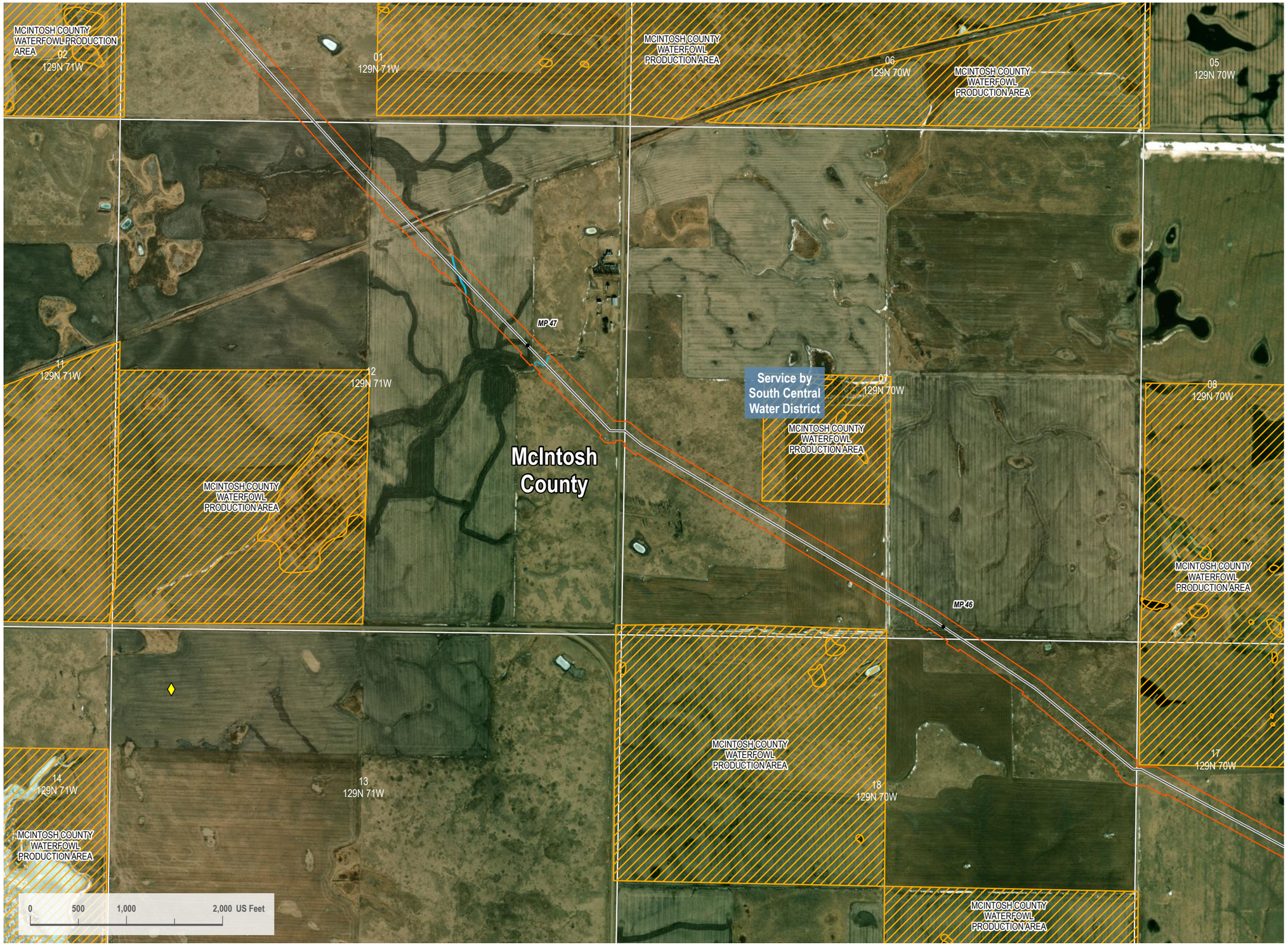

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- Stream
- 200-foot Siting Corridor

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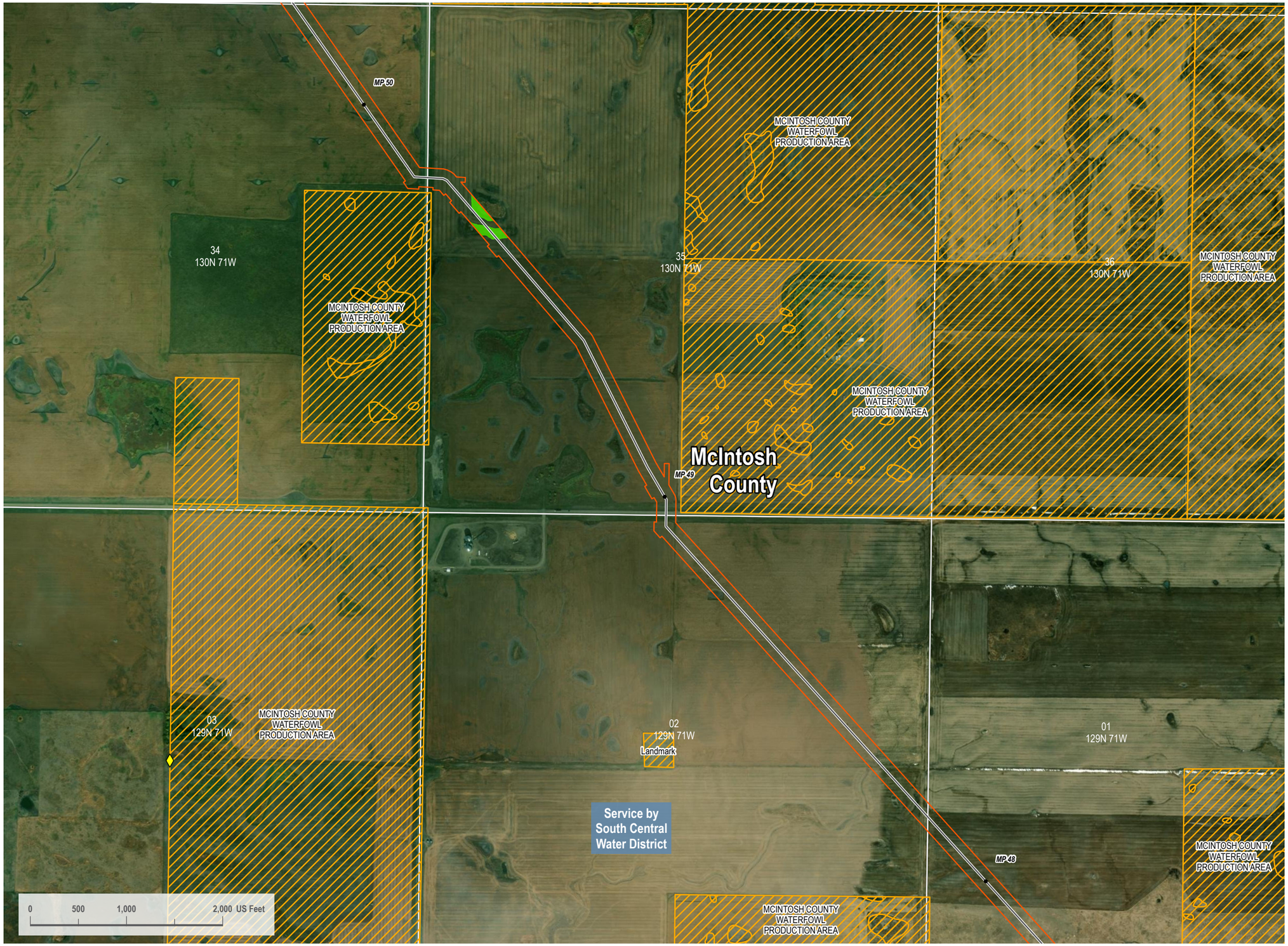

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
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- 200-foot Siting Corridor

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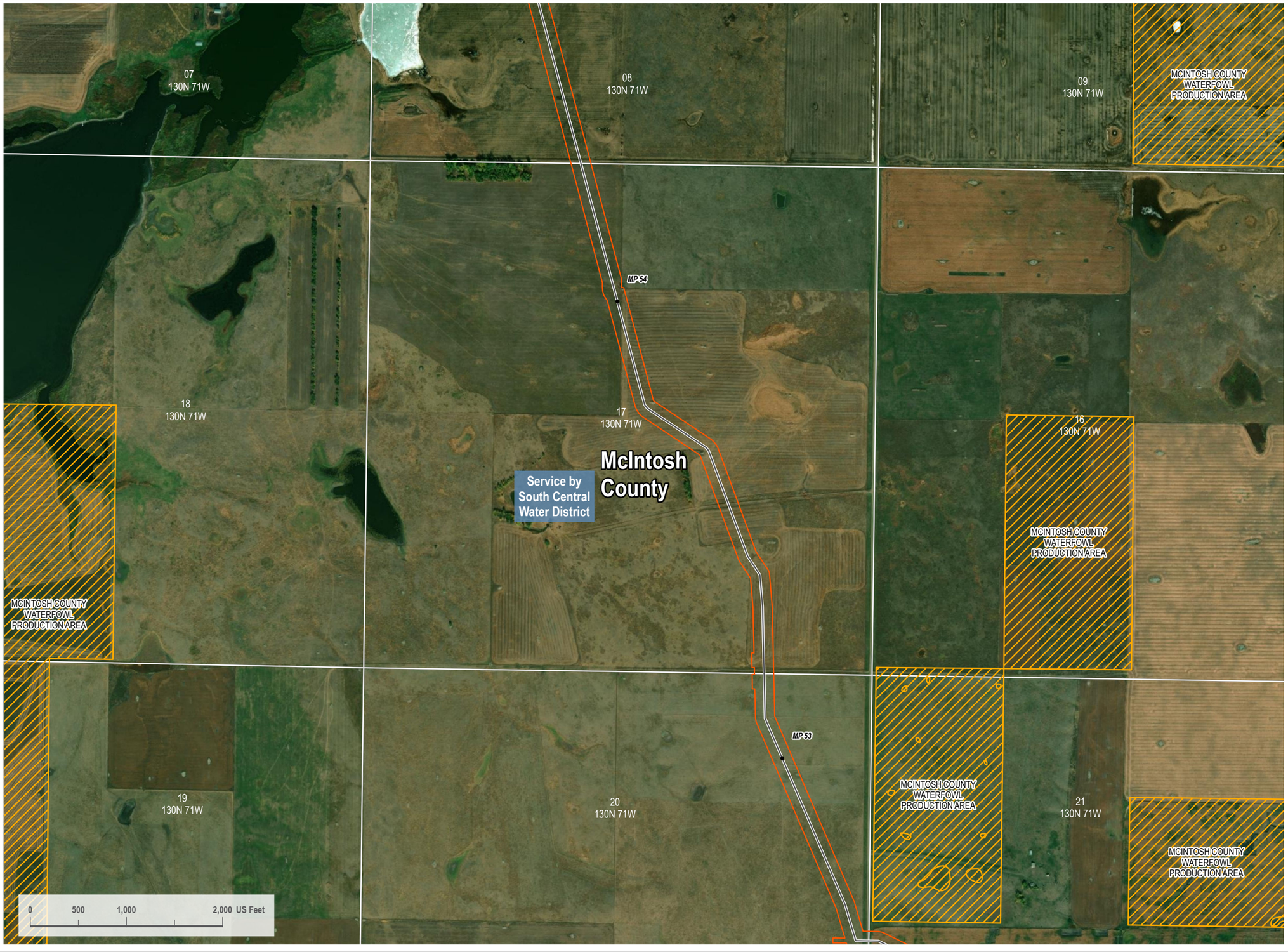

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- 200-foot Siting Corridor

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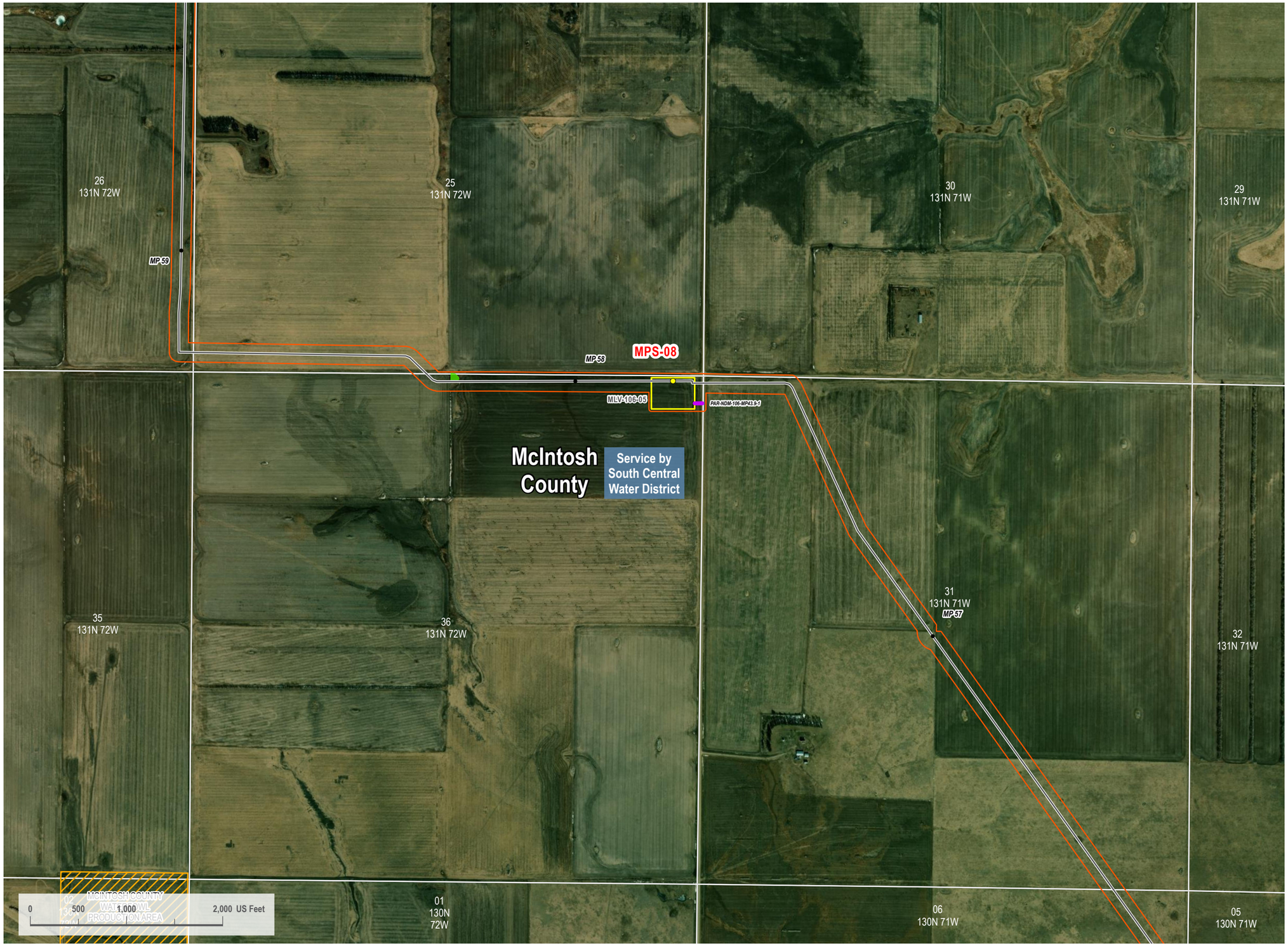

VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
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- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
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- PEM Wetland
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
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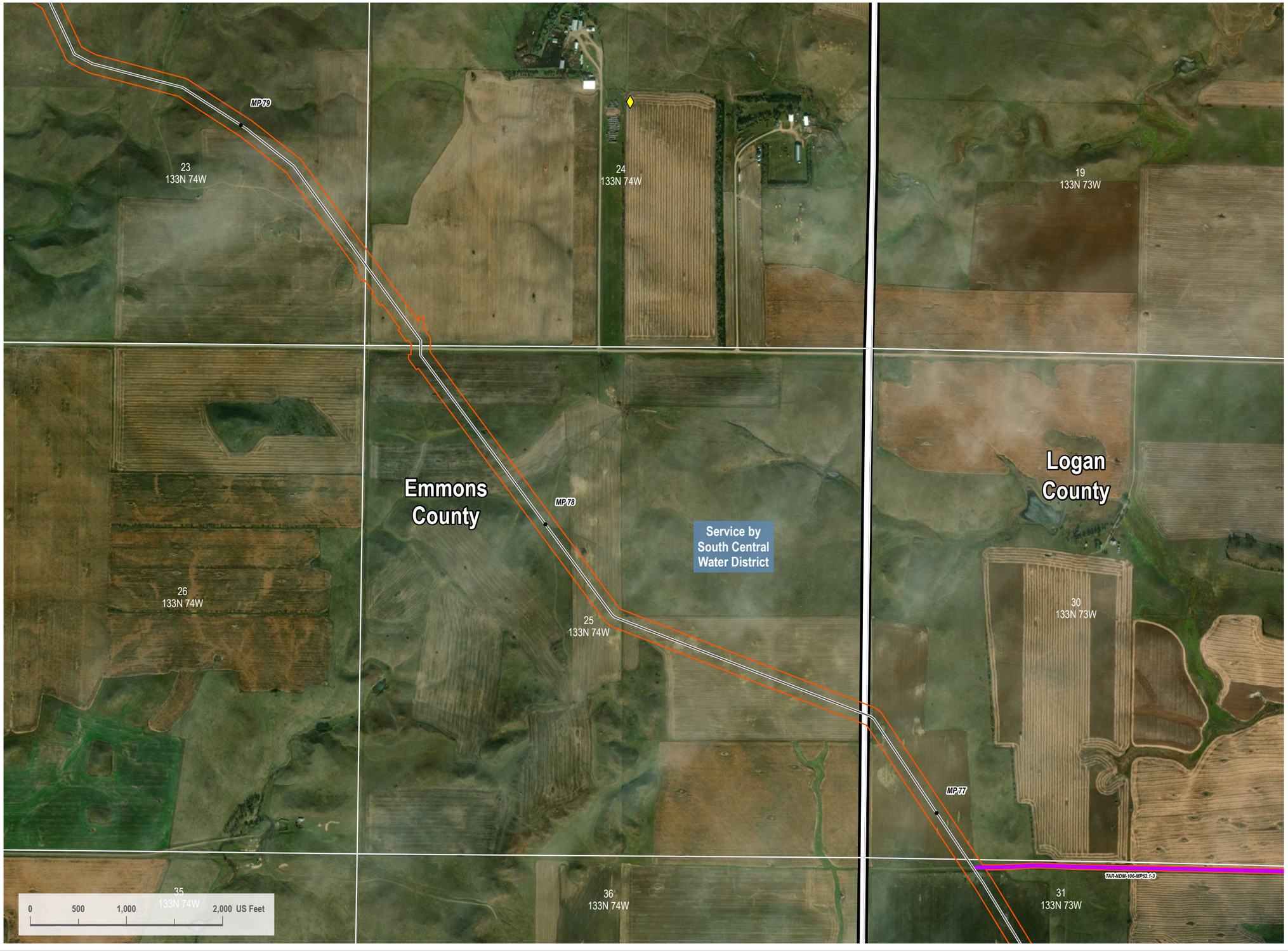

VICINITY MAP



LEGEND

- Centerline Mileposts
- 200-foot Siting Corridor
- Water Well (Avoidance)
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- Section Line
- Access Road
- Pump Station

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ND PSC - AERIAL MAP BOOK

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133N 74W

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133N 74W

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State Land Board

16
133N 74W

MP 81

15
133N 74W

14
133N 74W

EMMONS COUNTY WATERFOWL PRODUCTION AREA

Emmons County

Service by South Central Water District

MP 80

21
133N 74W

22
133N 74W

23
133N 74W

0 500 1,000 2,000 US Feet

VICINITY MAP



LEGEND

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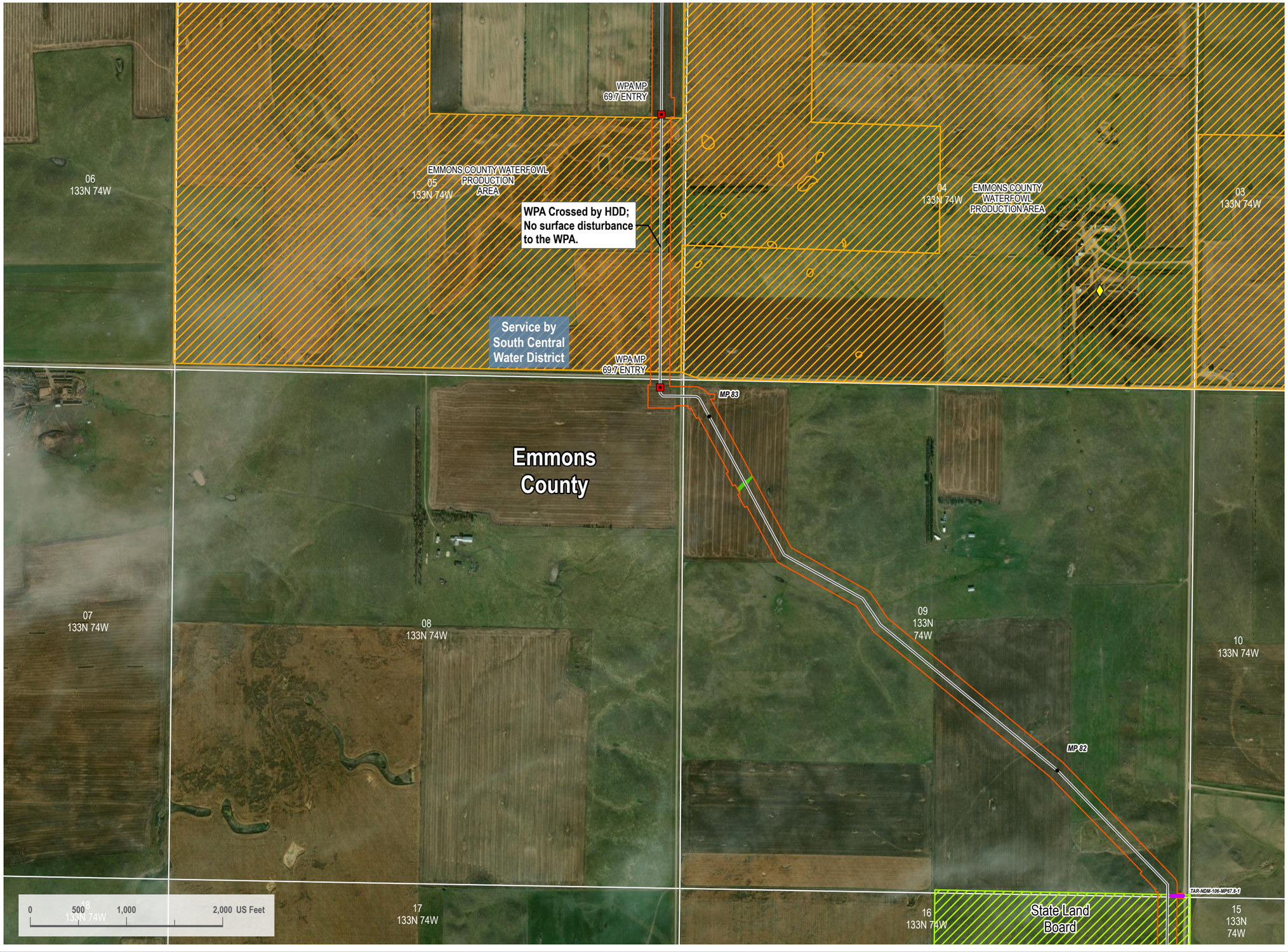

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor
- State Resource Management Area

N

REVISIONS

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDM-106

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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Projection:
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Revision A

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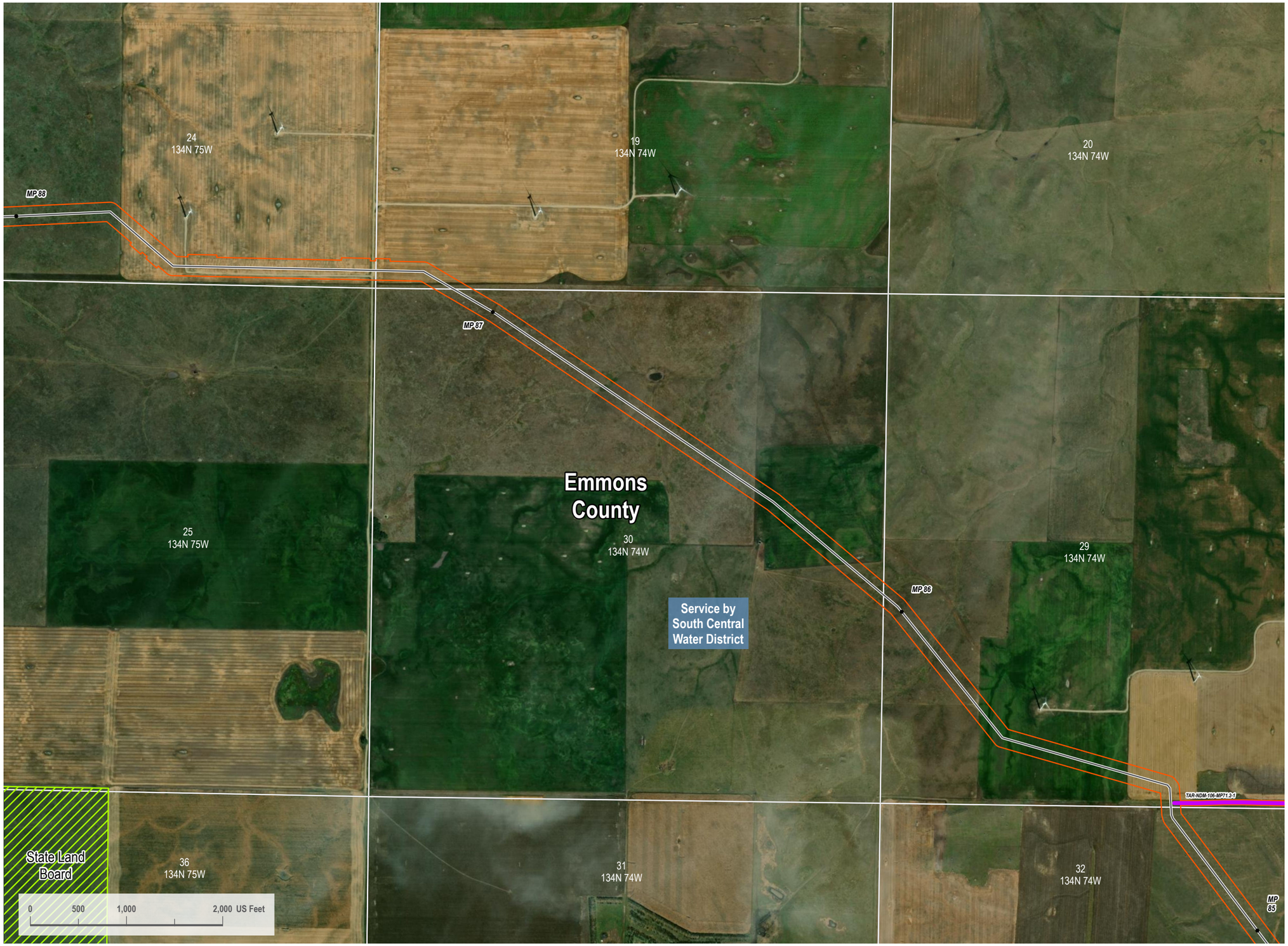
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Pump Station
- 200-foot Siting Corridor
- State Resource Management Area

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor
- State Resource Management Area

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
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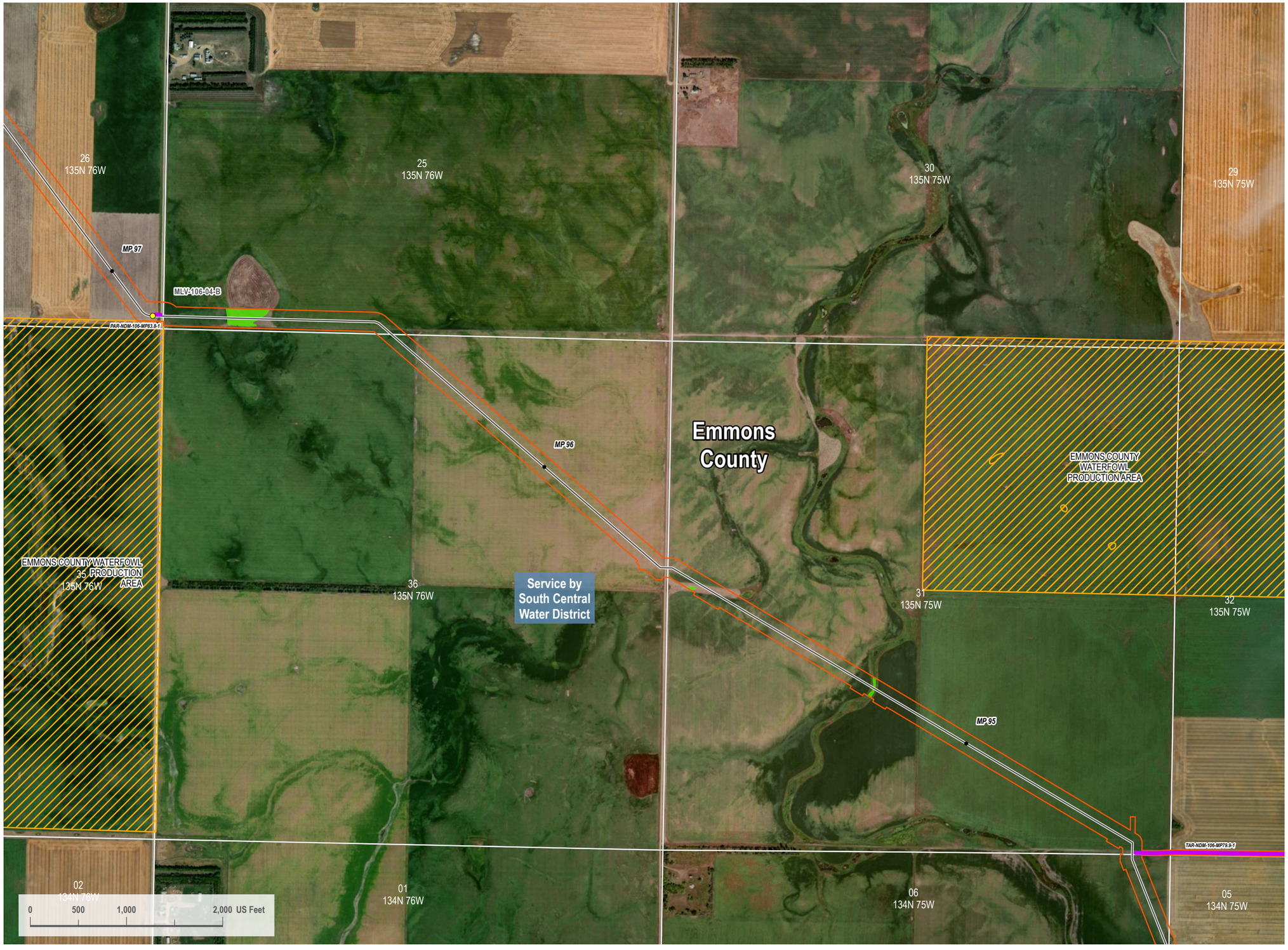

VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
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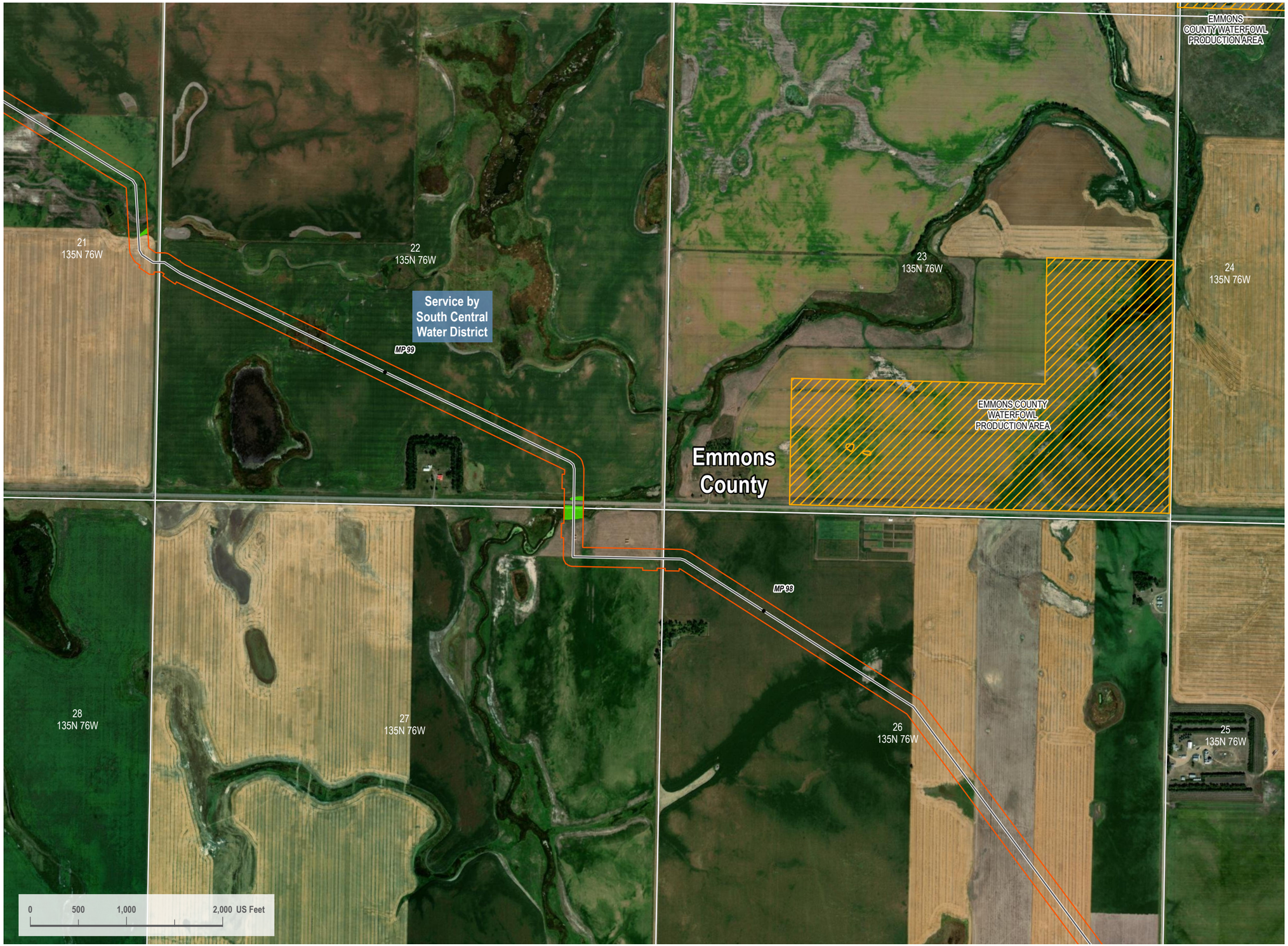

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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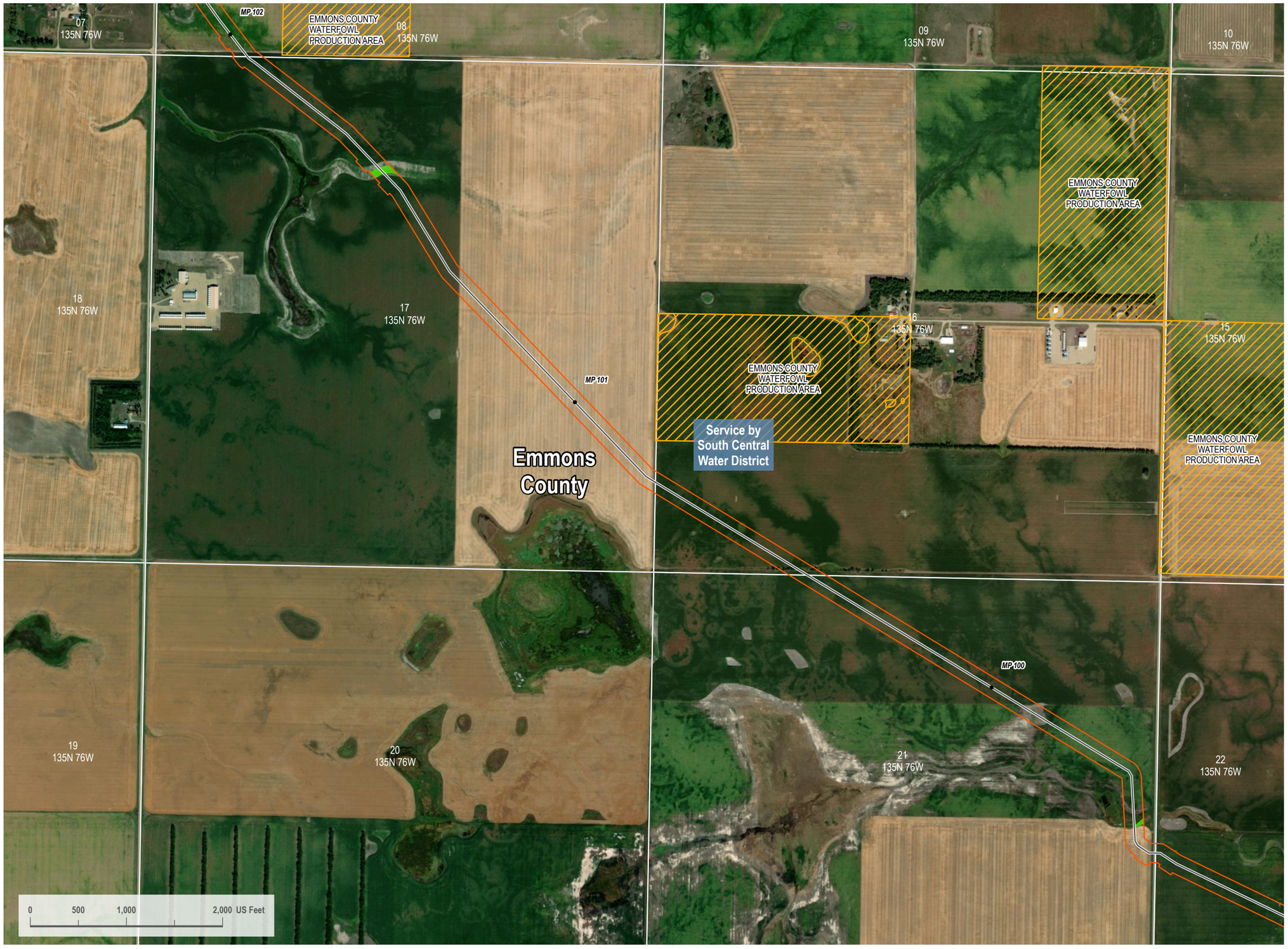

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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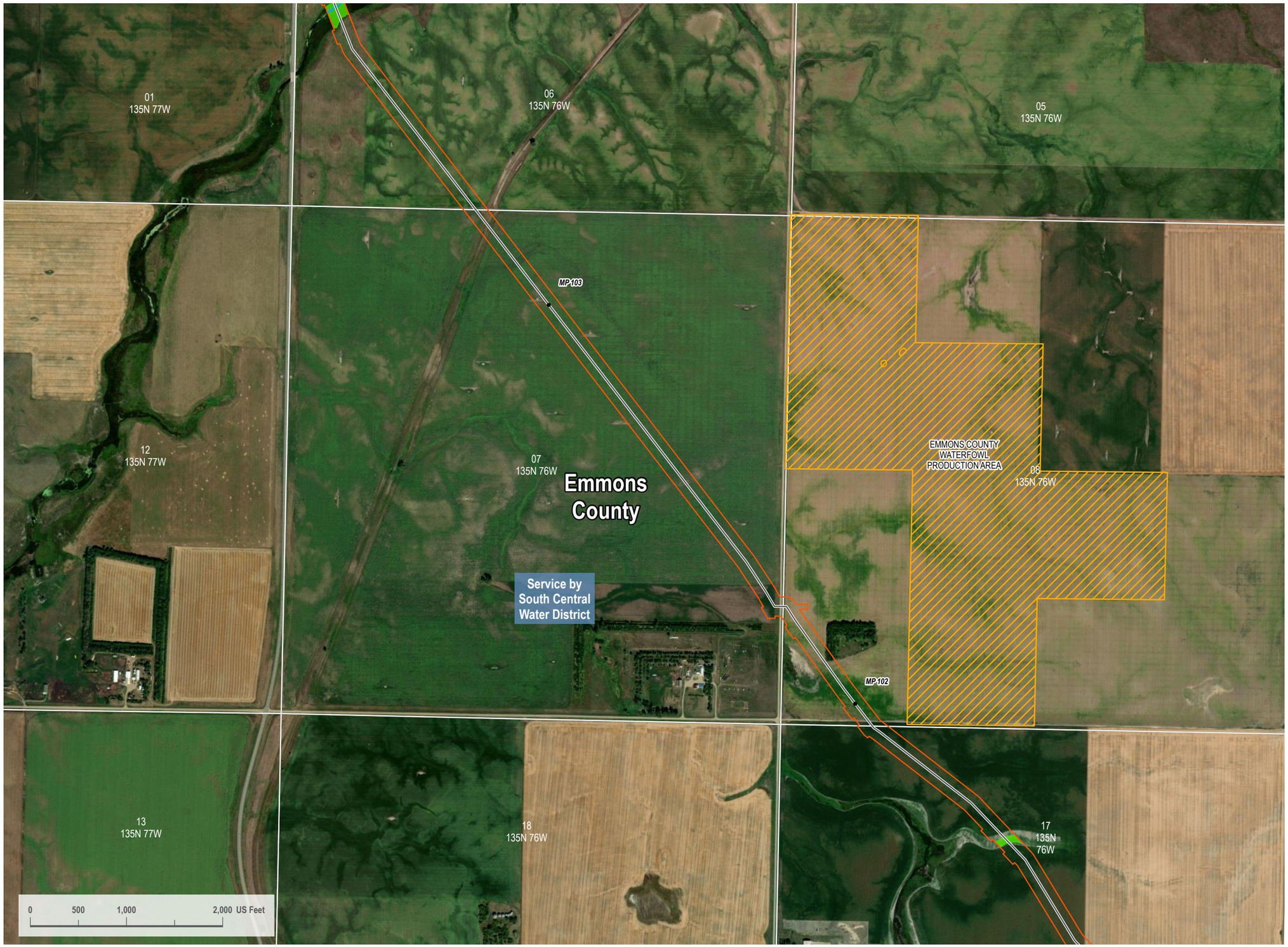
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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NAD 1983 UTM Zone 14N

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Revision A

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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NAD 1983 UTM Zone 14N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- Stream
- 200-foot Siting Corridor
- State Resource Management Area

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Figure Number:
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1 : 12,000 1 inch equals 1,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N
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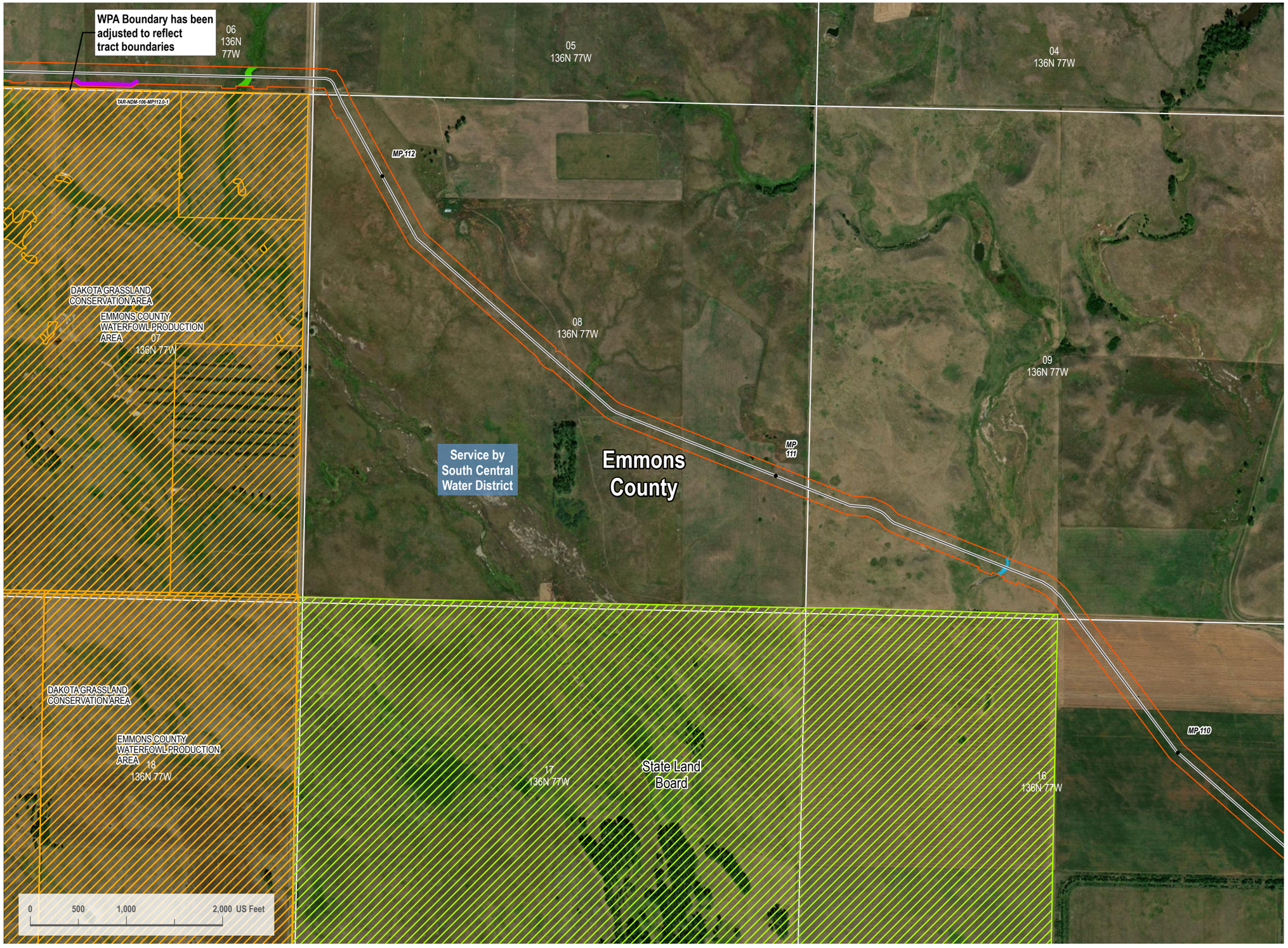

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor
- State Resource Management Area

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Projection:
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- PSS Wetland
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- 200-foot Siting Corridor
- State Resource Management Area

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VICINITY MAP



LEGEND

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VICINITY MAP



LEGEND

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

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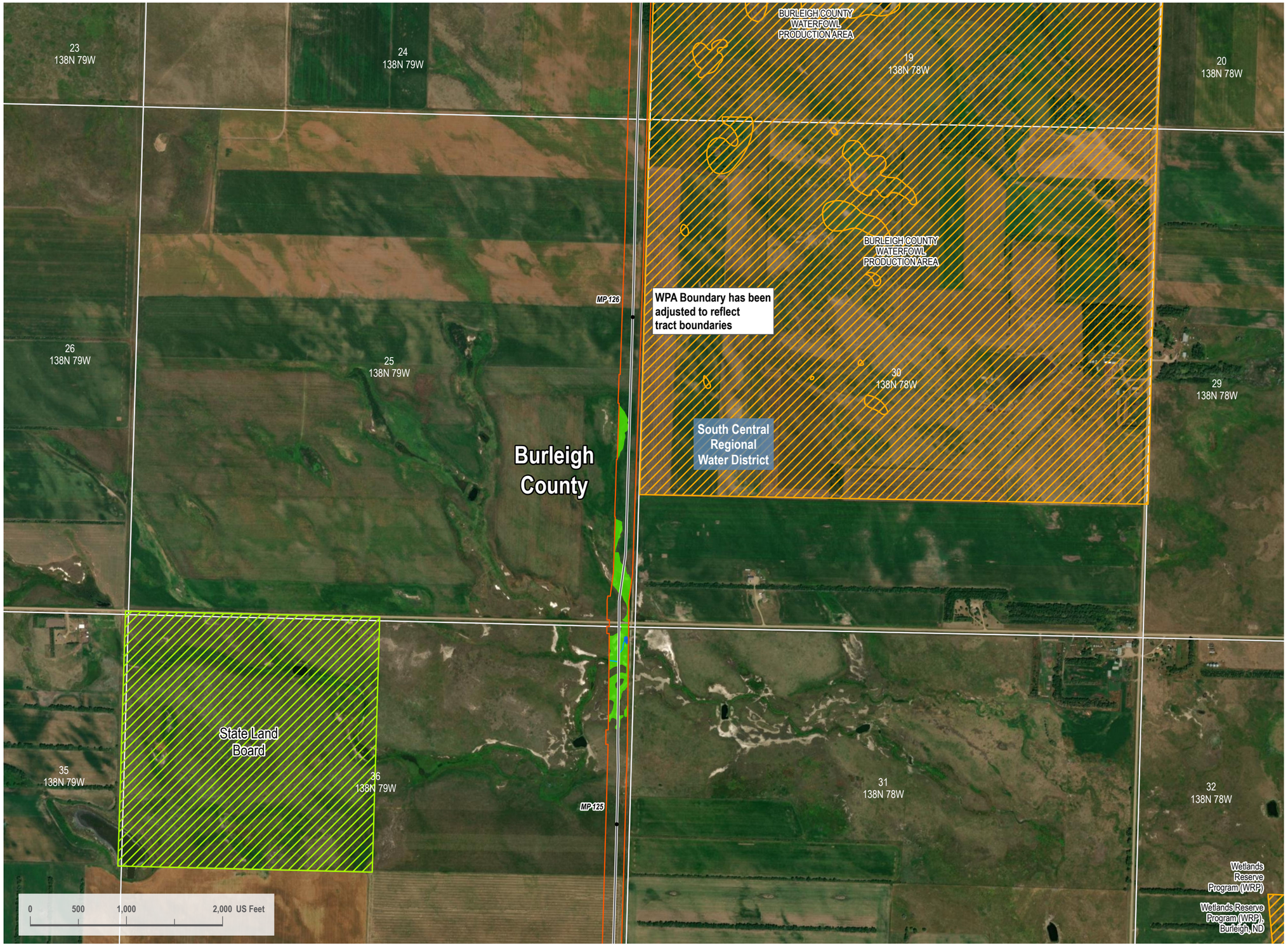

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LEGEND

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDM-106

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Drawing Number:
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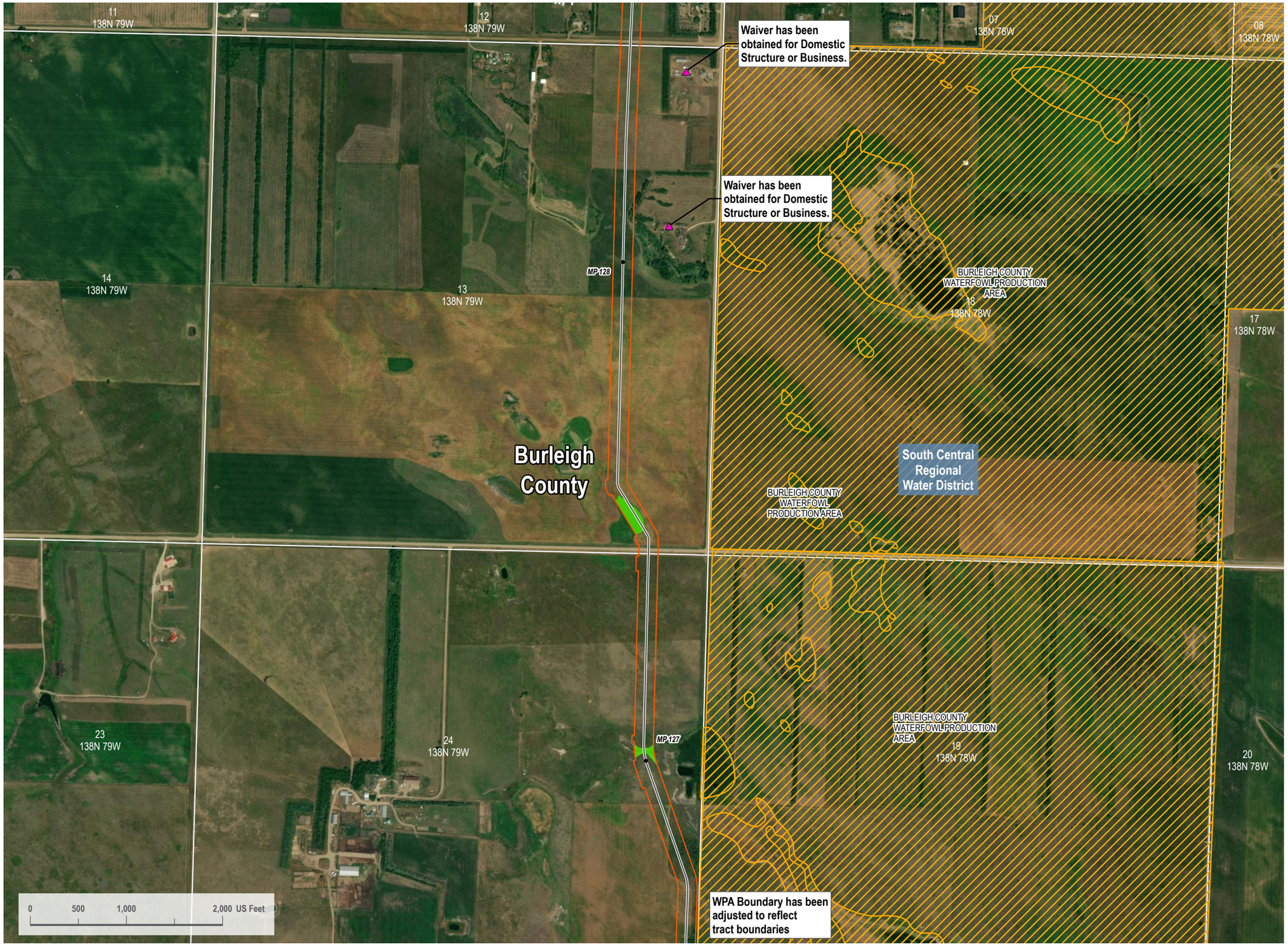

VICINITY MAP



LEGEND

- Centerline Mileposts
- Domestic Structure or Business (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

N

REVISIONS

Date	Revised by	Checked by
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Transverse Mercator
NAD 1983 UTM Zone 14N

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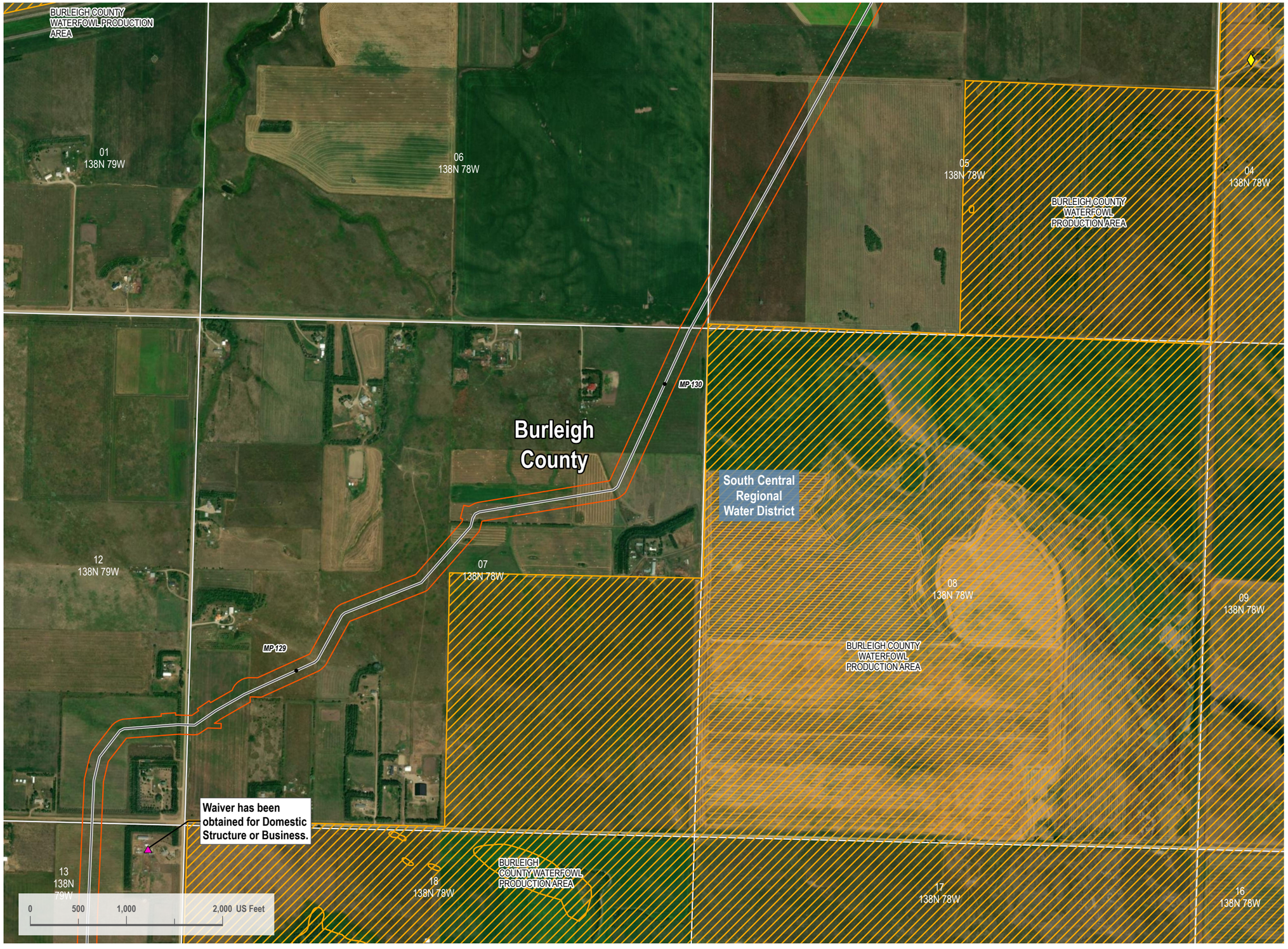

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Domestic Structure or Business (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- 200-foot Siting Corridor

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NAD 1983 UTM Zone 14N

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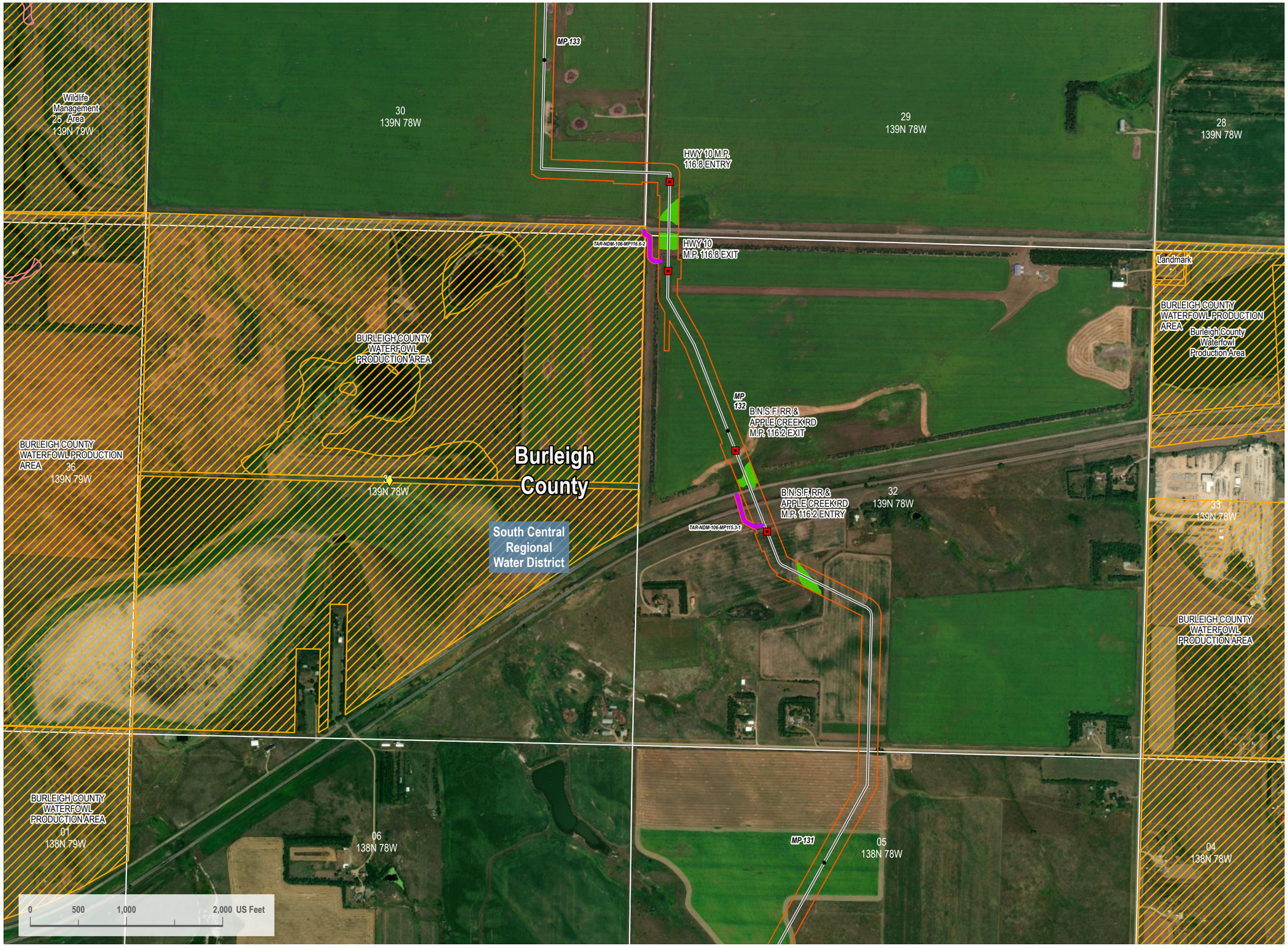
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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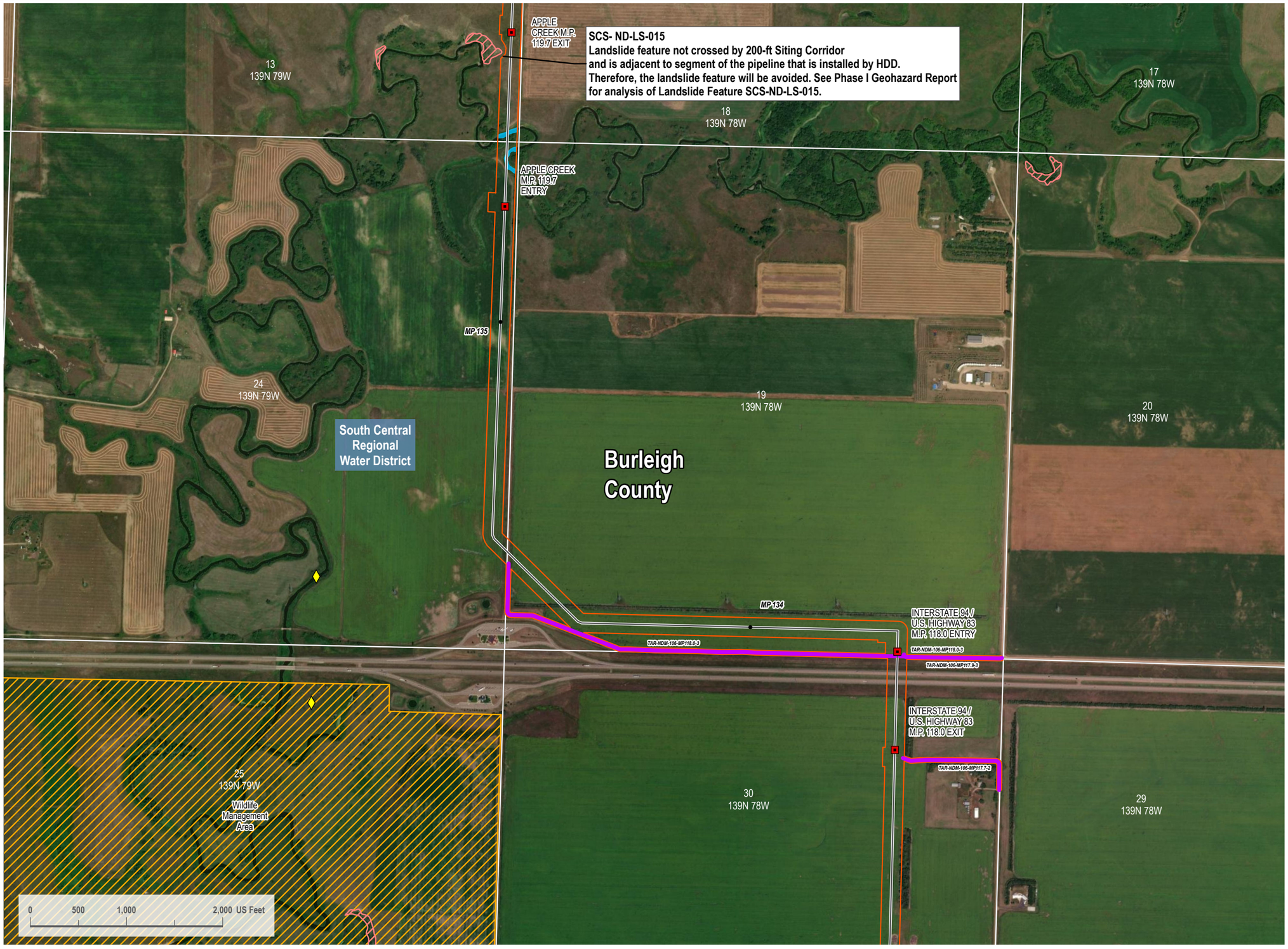

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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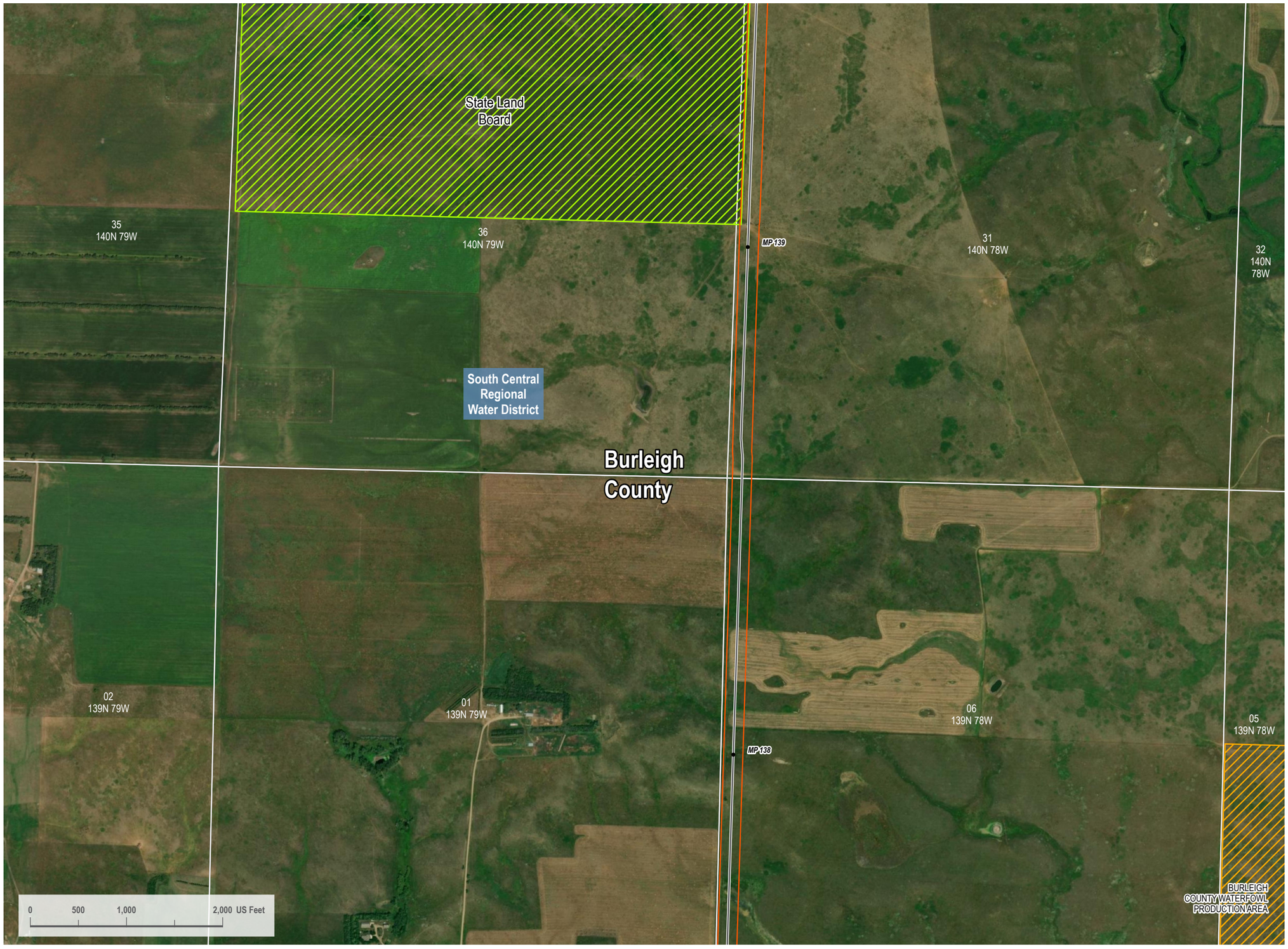

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- 200-foot Siting Corridor
- State Resource Management Area

N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor
- State Resource Management Area

N

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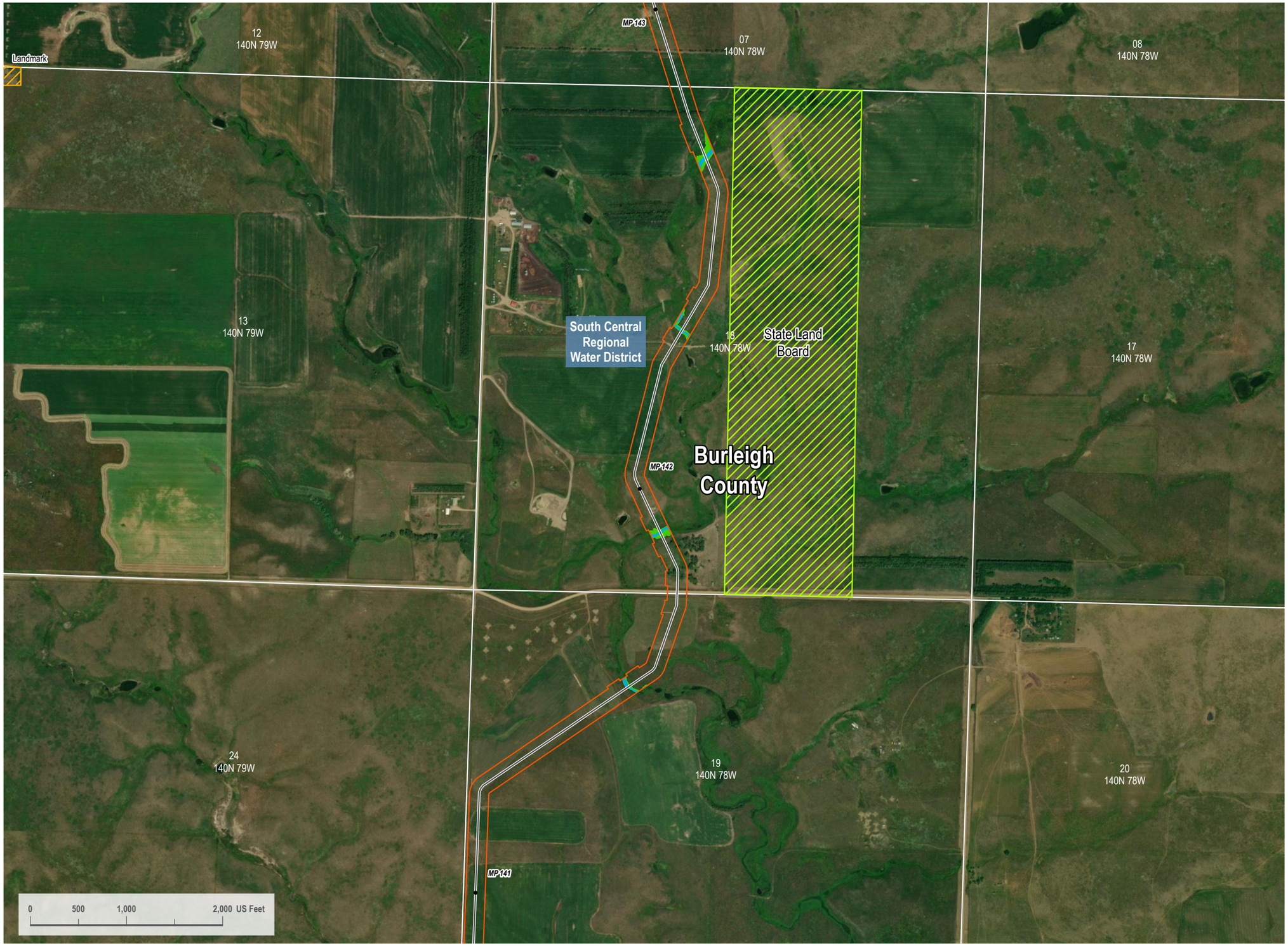
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor
- State Resource Management Area

N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

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Map Book 1

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Projection:
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NAD 1983 UTM Zone 14N

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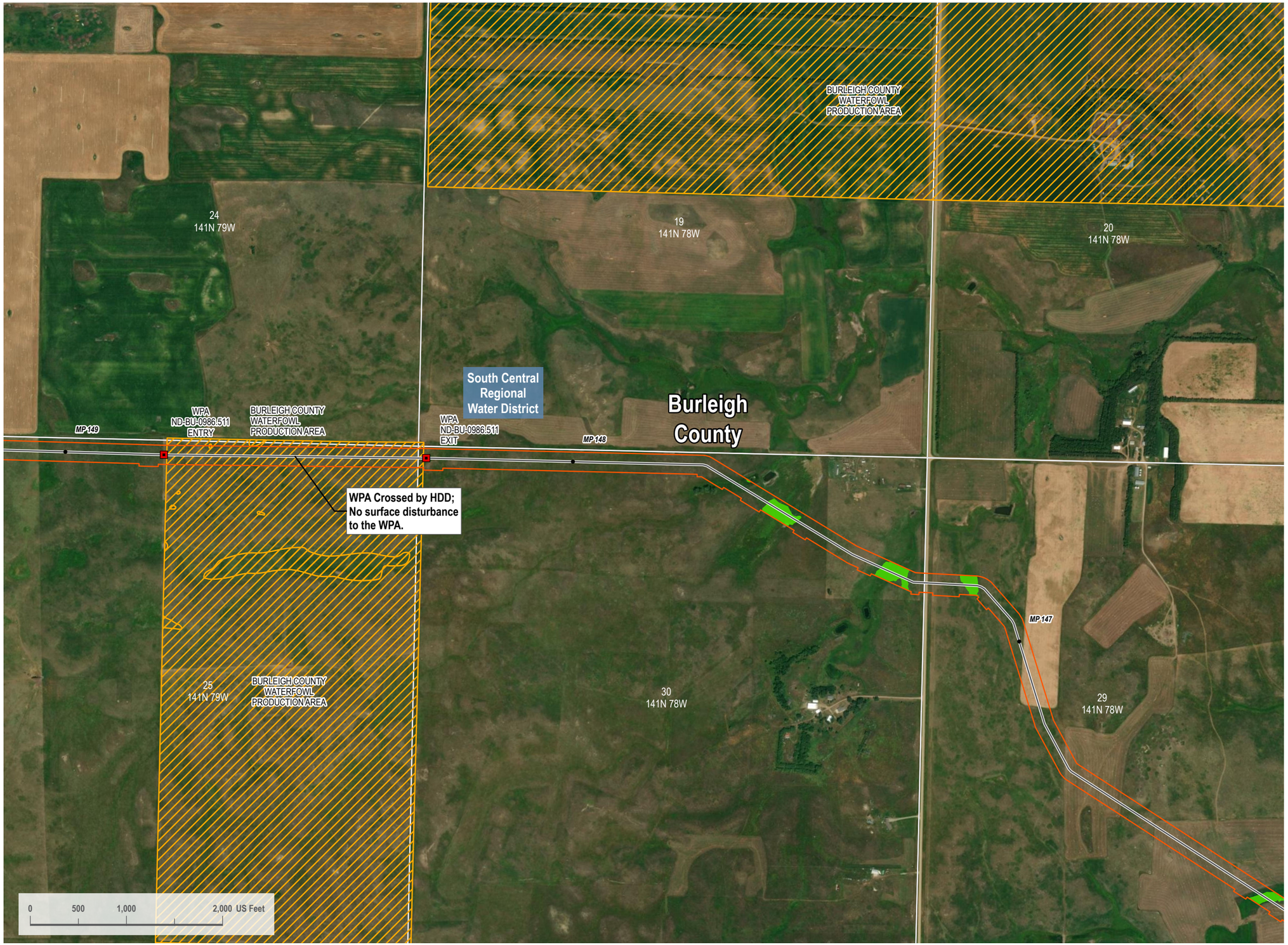
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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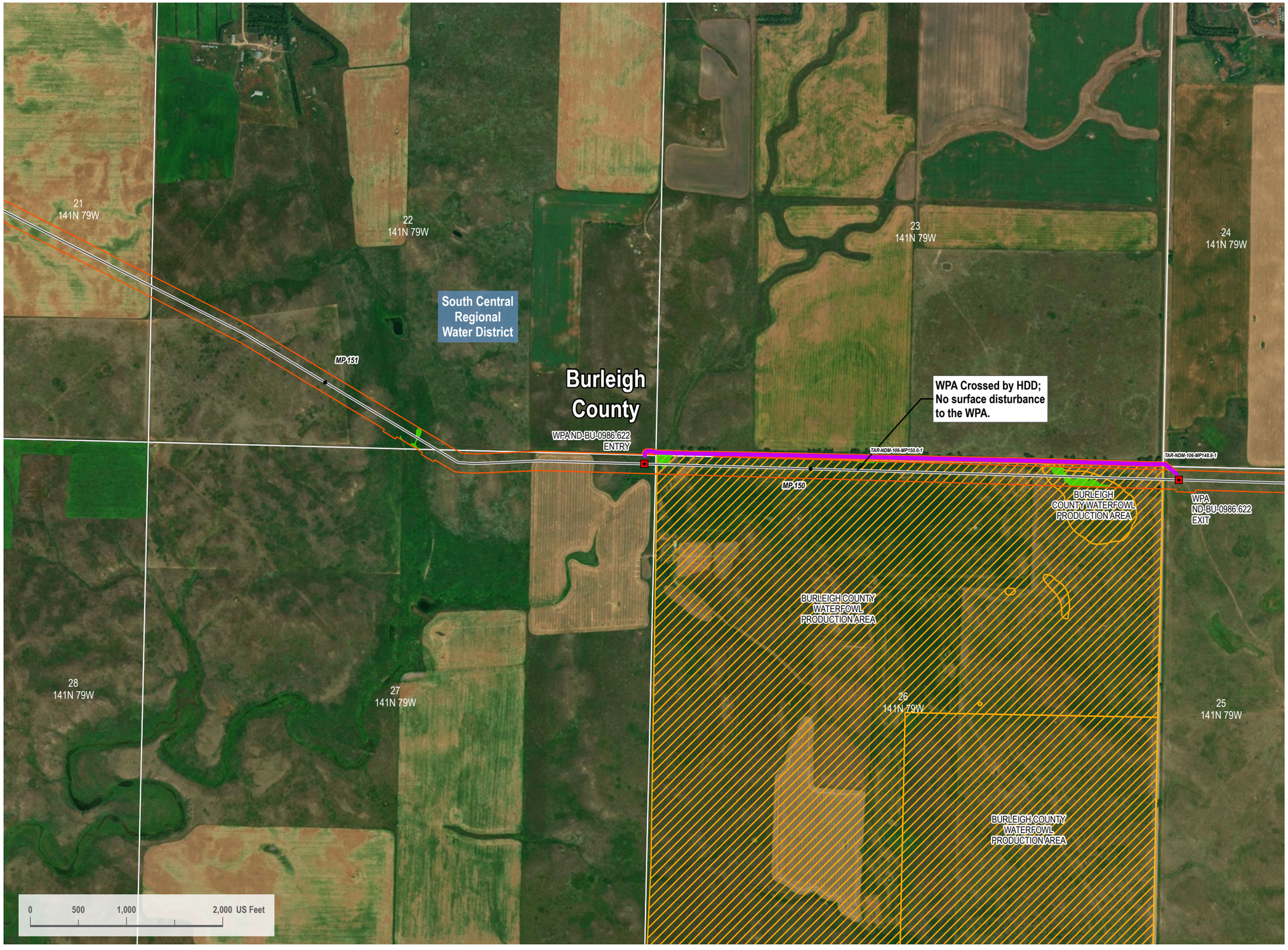

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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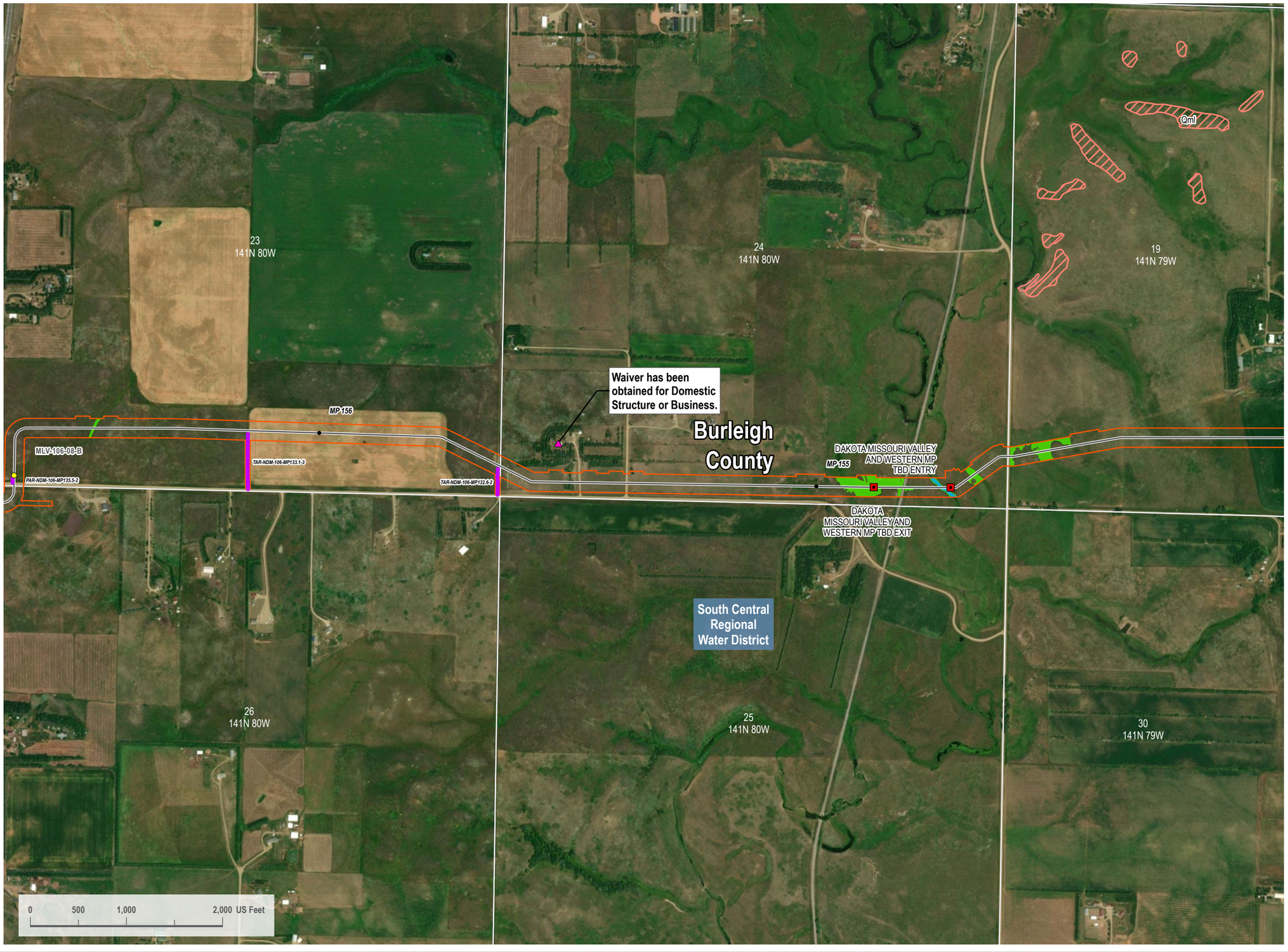

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Domestic Structure or Business (Avoidance)
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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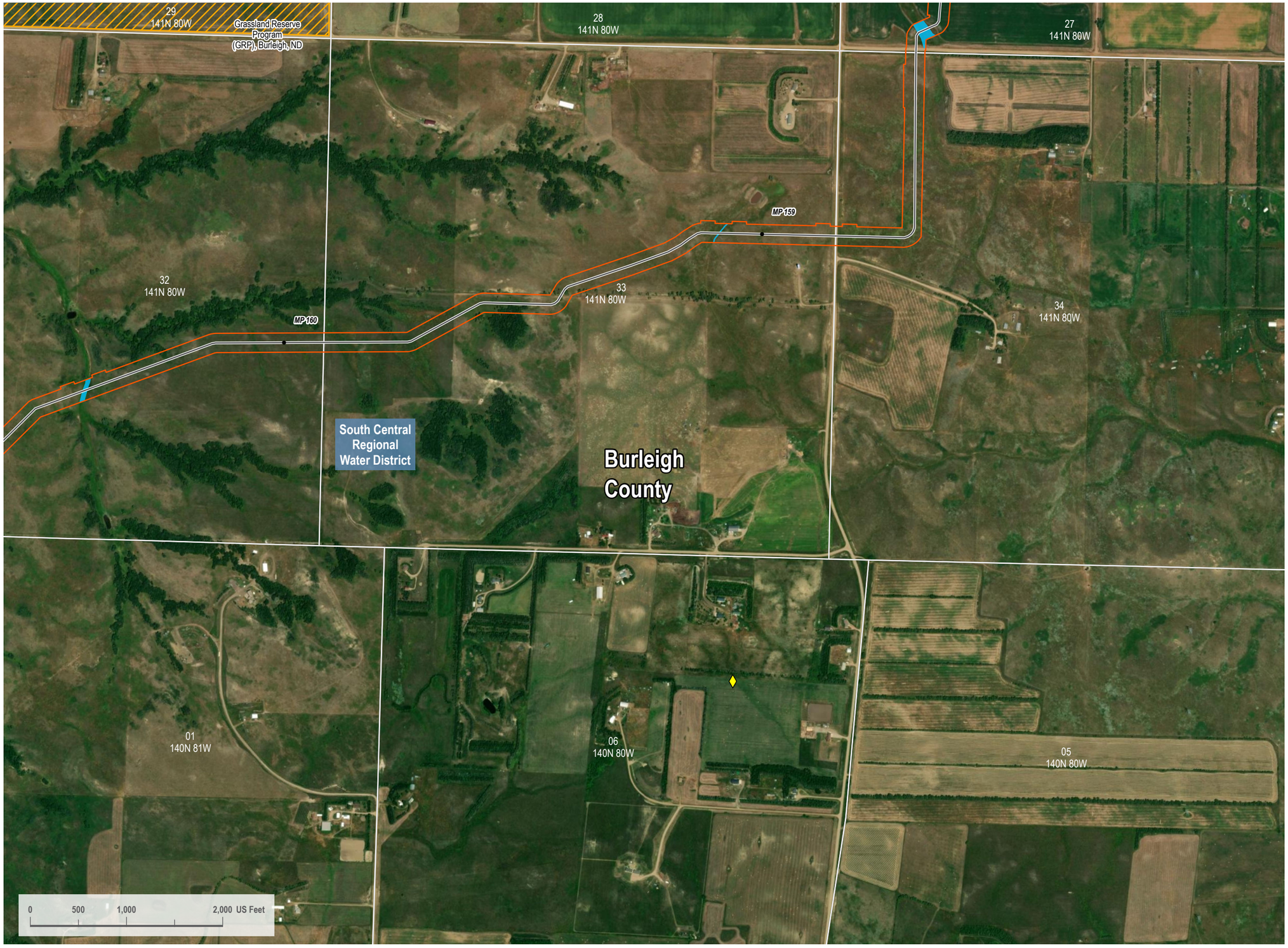

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- Stream
- 200-foot Siting Corridor
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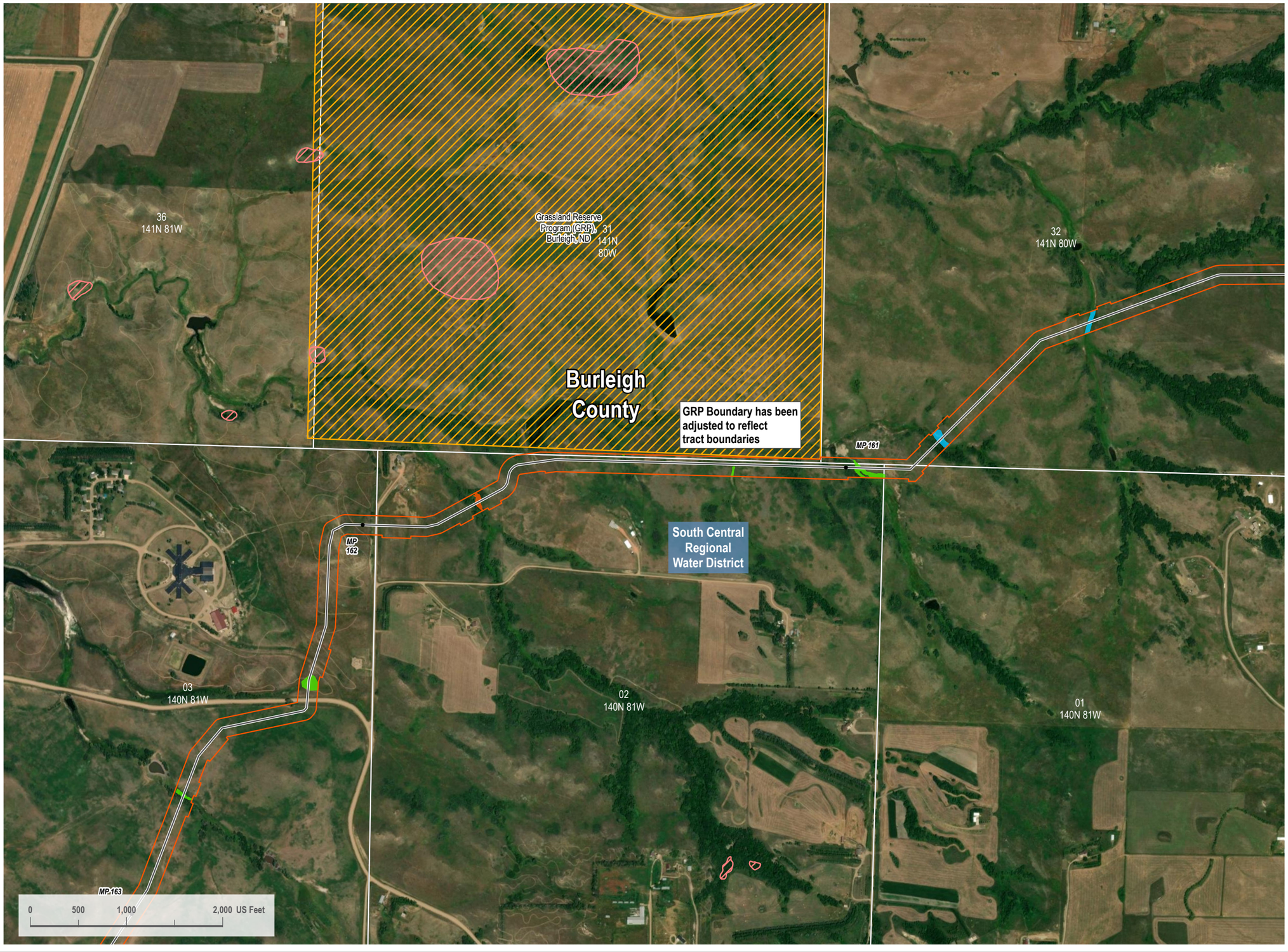

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- PFO Wetland
- Stream
- 200-foot Siting Corridor

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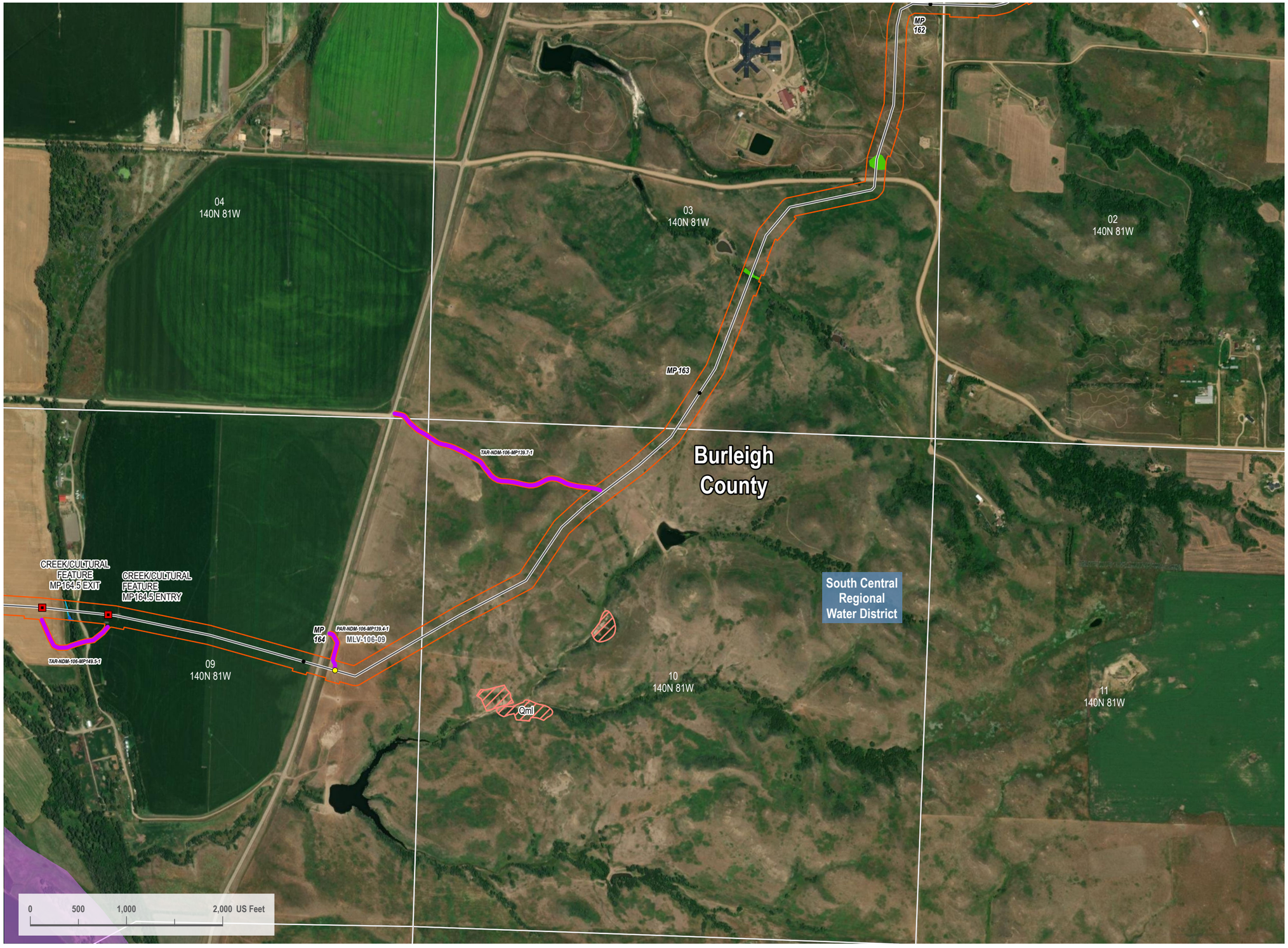

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Exclusion Area (USFWS Critical Habitat)
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

REVISIONS

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDM-106

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

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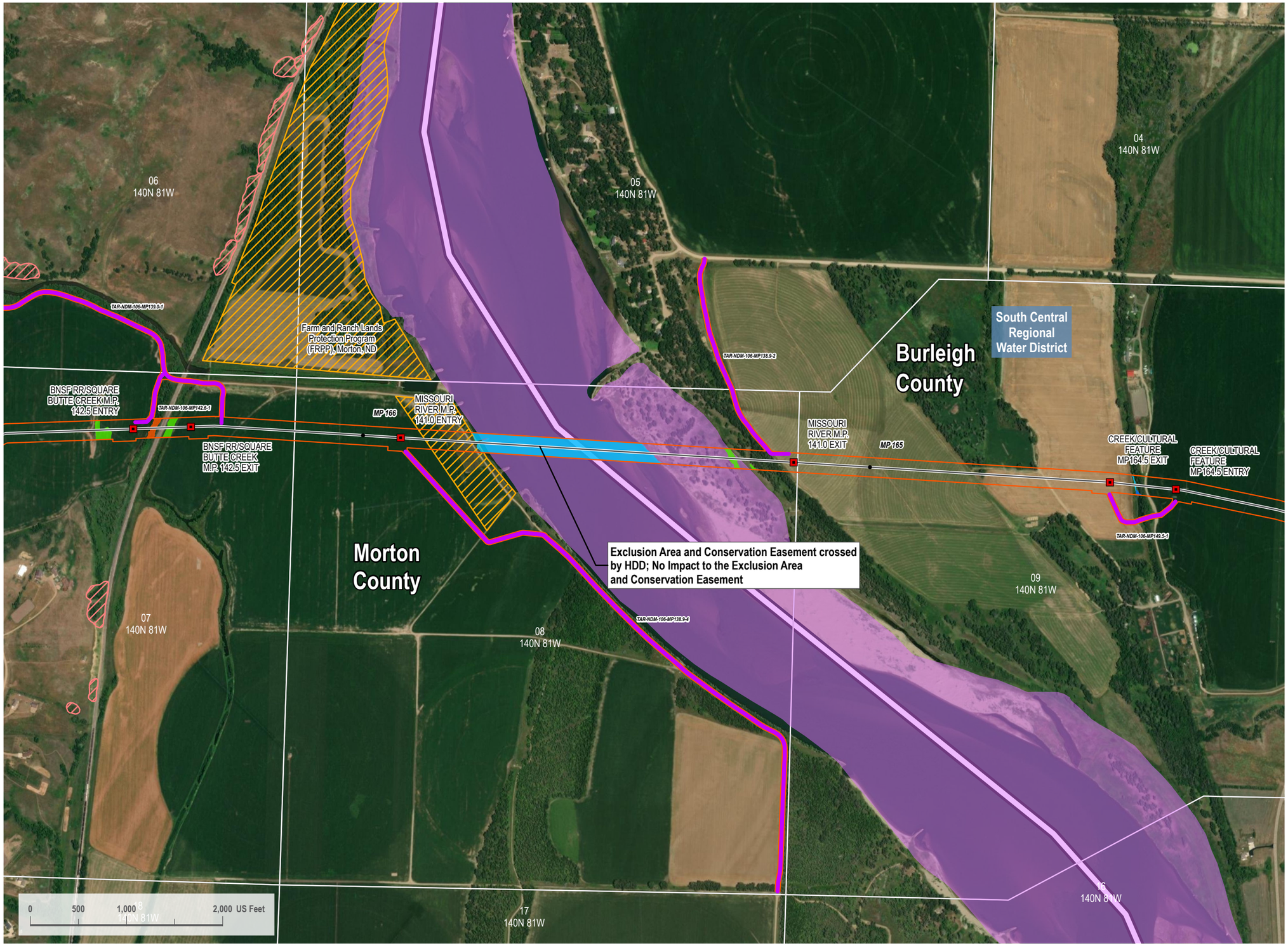

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Exclusion Area (USFWS Critical Habitat)
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- PFO Wetland
- Stream
- 200-foot Siting Corridor

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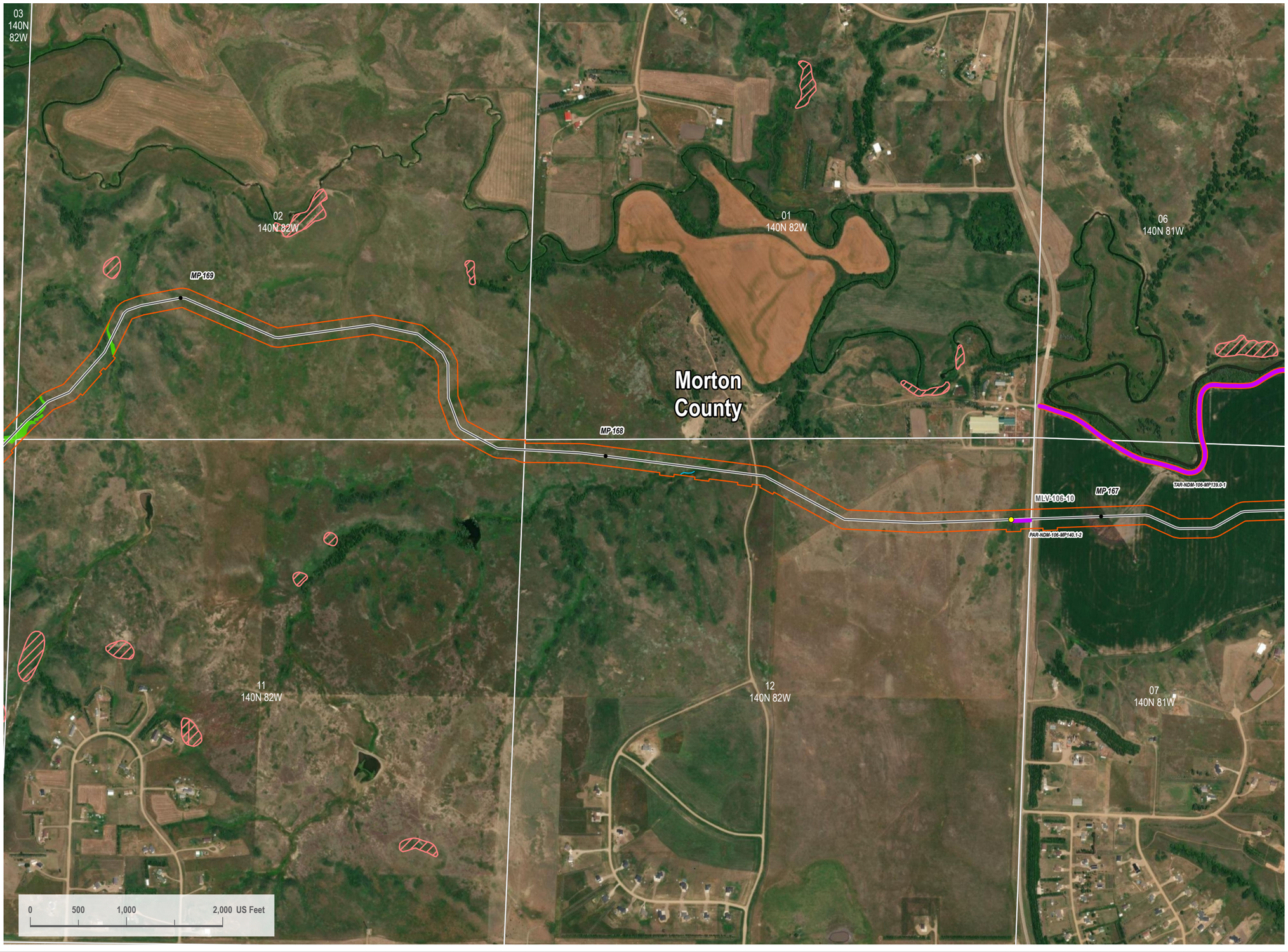

VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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Figure Number:
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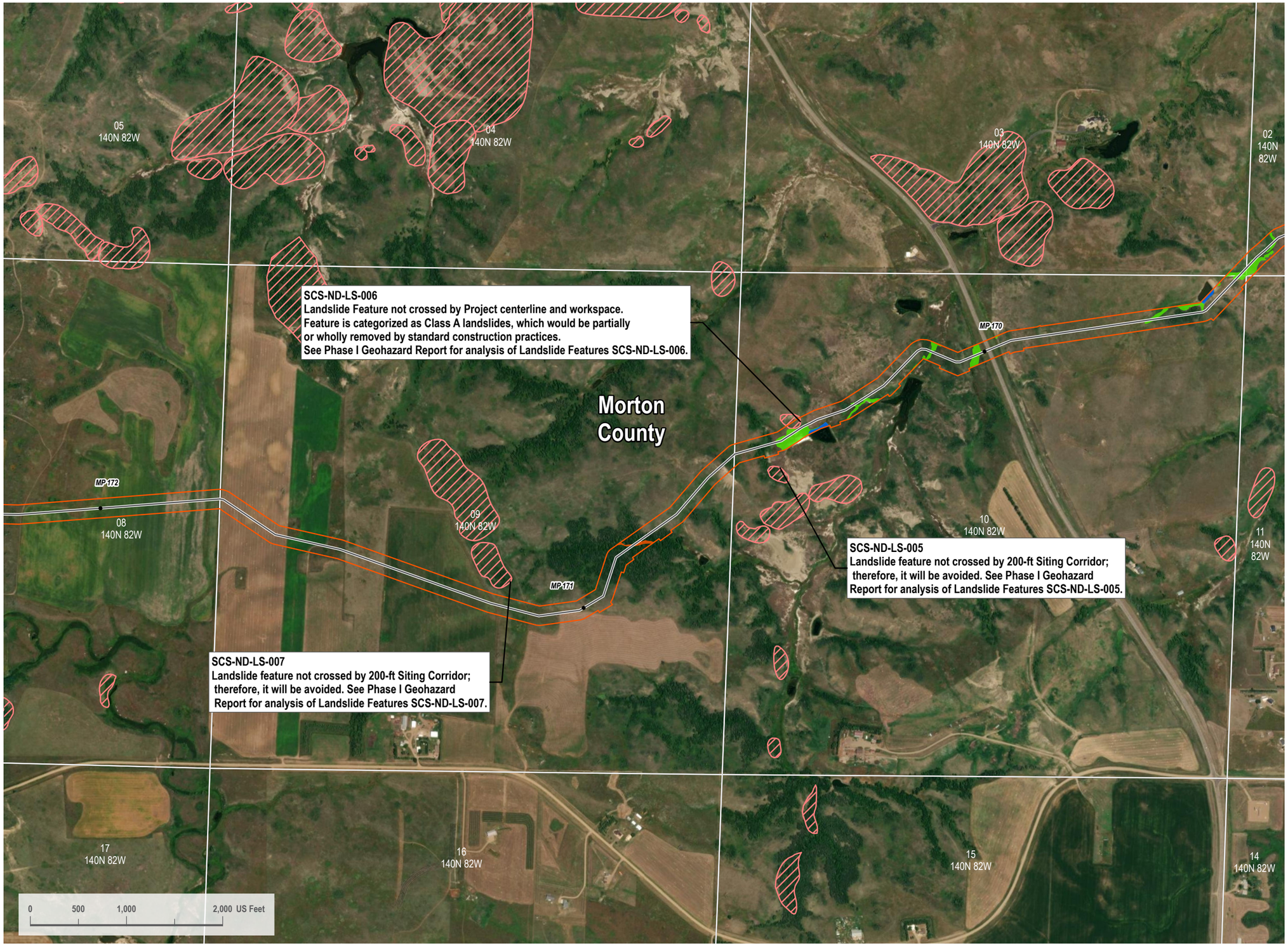

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Open Water
- PEM Wetland
- PFO Wetland
- 200-foot Siting Corridor

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1 : 12,000
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

N

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Projection:
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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

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Projection:
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Facility Boundary
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

N

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDM-106, NDL-328

Figure Number:
Map Book 1

Scale:
1 : 12,000
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Projection:
Transverse Mercator
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Drawing Number:
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- 200-foot Siting Corridor

N

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Figure Number:

Map Book 1

Scale:	Projection:
1 : 12,000 1 inch equals 1,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- 200-foot Siting Corridor

N

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Projection:
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

N

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Figure Number:
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Projection:
Transverse Mercator
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

N

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Figure Number:
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Projection:
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Revision A

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

N

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Facility Boundary
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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PAR-NDL-328-MP-0-1

MLV-328-01

MP 0

MP 1

SCS-ND-LS-017
Landslide feature not crossed by 200-ft Siting Corridor; therefore, it will be avoided. See Phase I Geohazard Report for analysis of Landslide Features SCS-ND-LS-017.

SCS-ND-LS-002
Landslide feature not crossed by 200-ft Siting Corridor; therefore, it will be avoided. See Phase I Geohazard Report for analysis of Landslide Features SCS-ND-LS-002.

SCS-ND-LS-003
Landslide feature not crossed by 200-ft Siting Corridor; therefore, it will be avoided. See Phase I Geohazard Report for analysis of Landslide Features SCS-ND-LS-003.

Oliver County

05 141N 83W

04 141N 83W

03 141N 83W

08 141N 83W

09 141N 83W

10 141N 83W

0 500 1,000 2,000 US Feet

VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Facility Boundary
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

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Figure Number:
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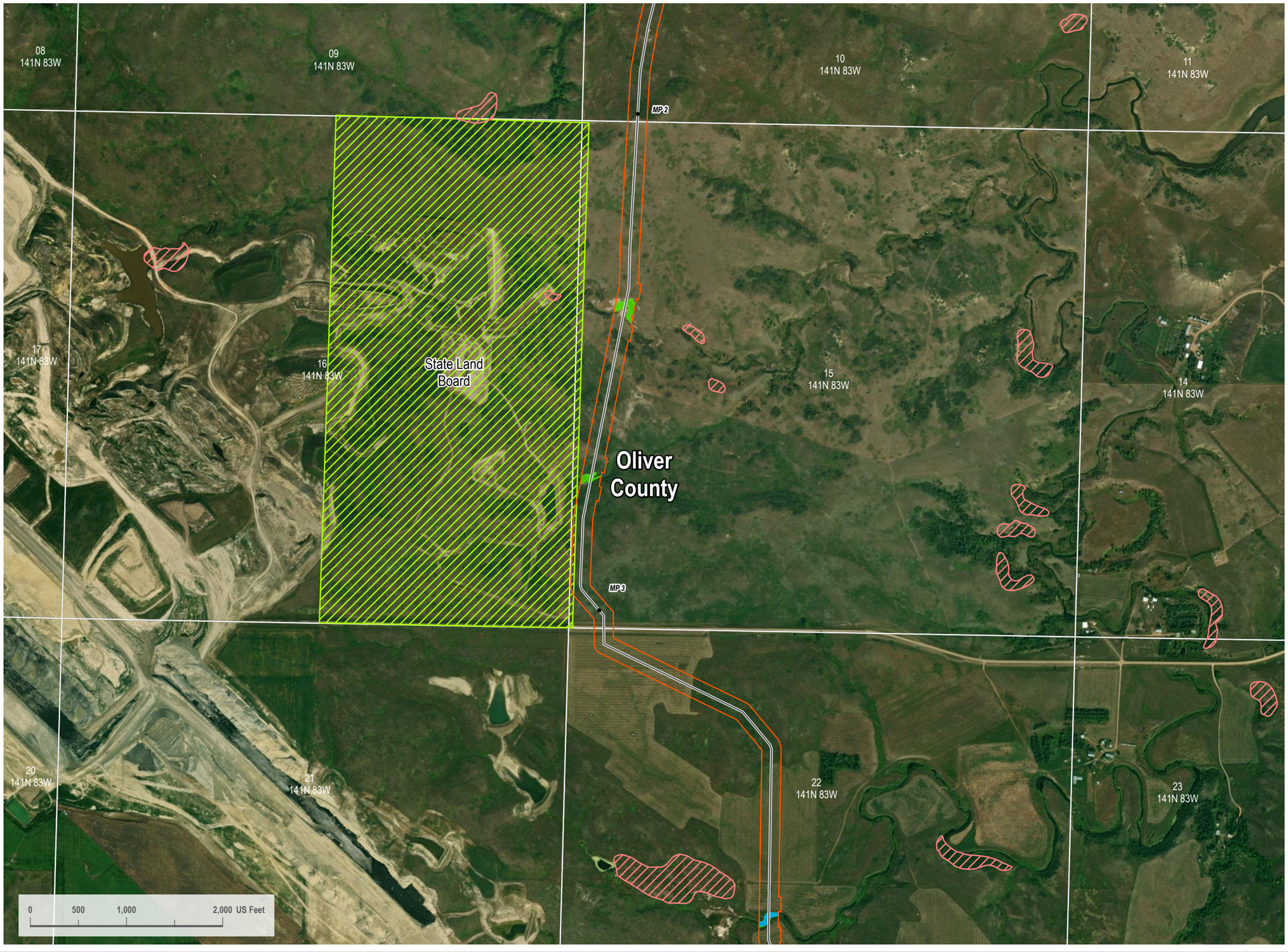

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor
- State Resource Management Area

N

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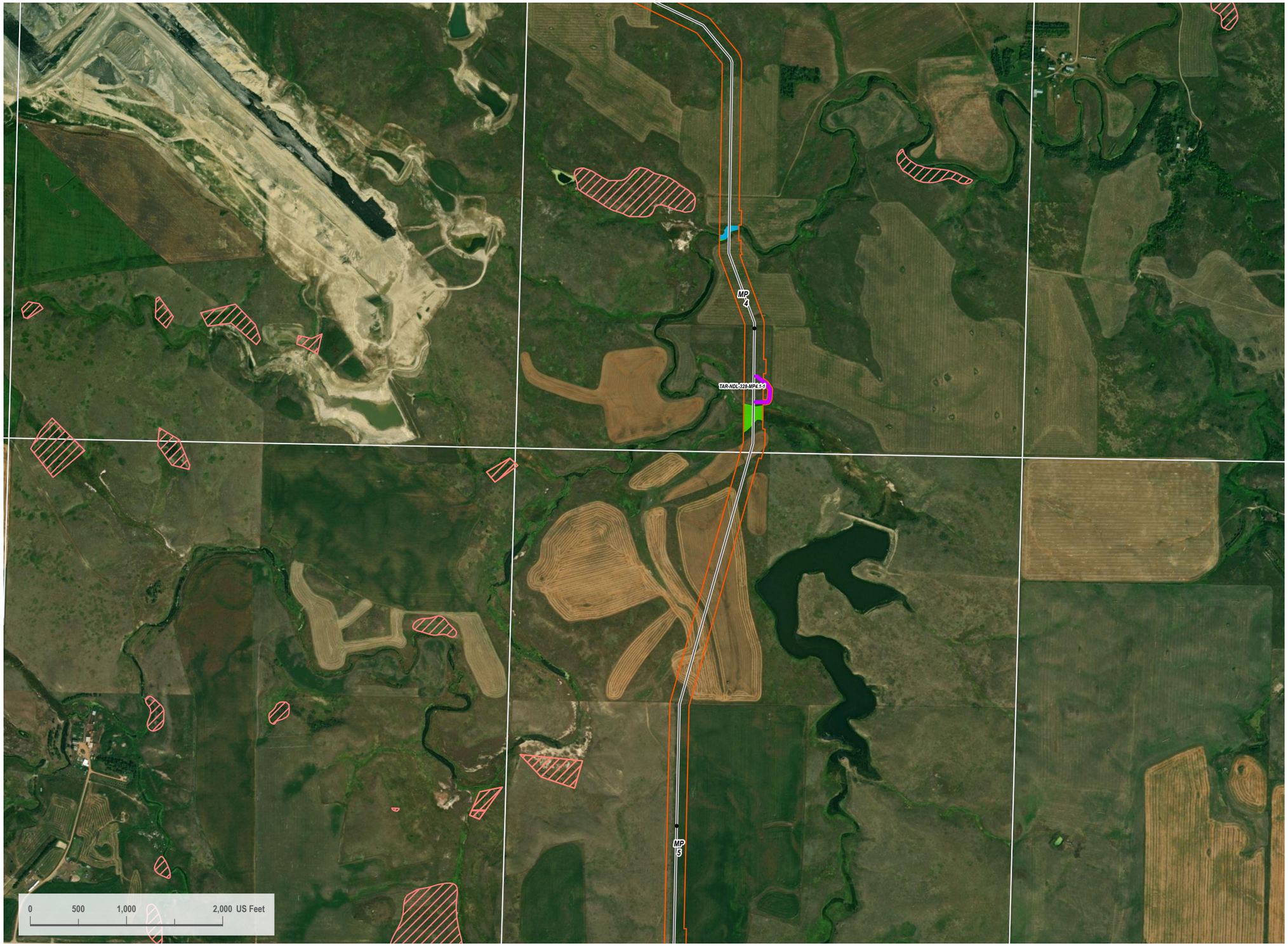
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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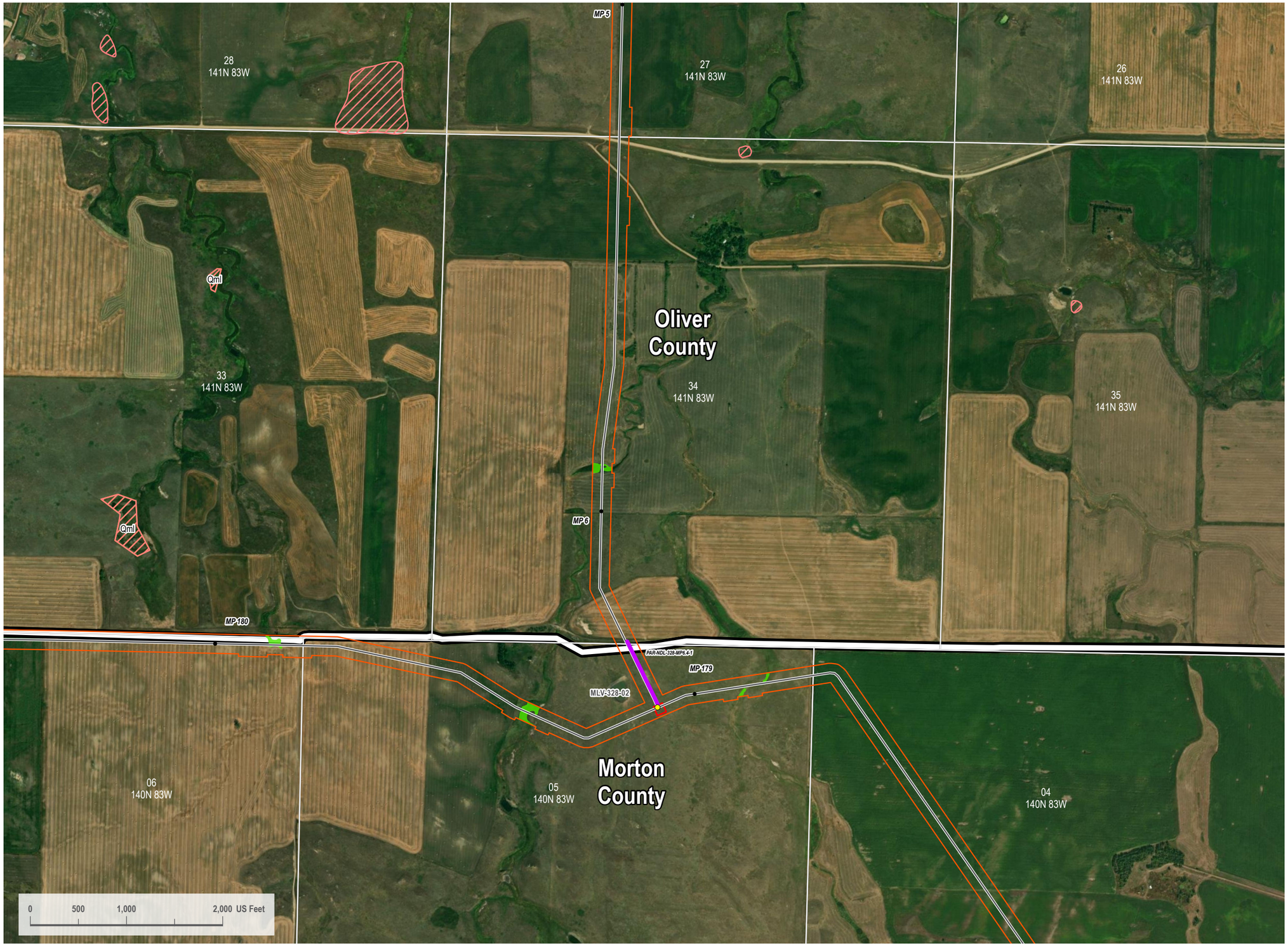

VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Facility Boundary
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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SUMMIT CARBON SOLUTIONS

PROJECT INFORMATION

Figure Title:

ND PSC - Aerial Map Book - NDM-106, NDL-328

Figure Number:

Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
75
75 of 149

Drawing Number:
1001-01-004
Revision A

Path: G:\Projects\TAL-21\TAL21-00 - Summit Carbon - MCE Project\0800 GEO\10_Mapping\01 Map Books\01 General\1001-01-004 ND PSC Mapbook\1001-01-004 ND PSC Mapbook.aprx

ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

REVISIONS

Date:	Revised by:	Checked by:
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Date: Revised by: Checked by:

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SUMMIT CARBON SOLUTIONS

PROJECT INFORMATION

Figure Title:

ND PSC - Aerial Map Book - MNL-321

Figure Number:

Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
76
76 of 149

Drawing Number:
1001-01-004
Revision A

Path: G:\Projects\PAL-21015451-00 - Summit Carbon - MCE Project\0800 GEO\10_Mapping\01 Map Books\01 General\1001-01-004 ND PSC Mapbook\1001-01-004 ND PSC Mapbook.aprx



VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

N

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - MNL-321

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
77
77 of 149

Drawing Number:
1001-01-004
Revision A

Path: G:\Projects\PAL-21015451-00 - Summit Carbon - MCE Project\0800 GEO\10_Mapping\01 Map Books\01 General\1001-01-004 ND PSC Mapbook\1001-01-004 ND PSC Mapbook.aprx

ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

N

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SUMMIT CARBON SOLUTIONS

PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - MNL-321 & NDL-323

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
78
78 of 149

Drawing Number:
1001-01-004
Revision A

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

N

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDL-323

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
79
79 of 149

Drawing Number:
1001-01-004
Revision A

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VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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Figure Number:
Map Book 1

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1 : 12,000
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
80
80 of 149

Drawing Number:
1001-01-004
Revision A

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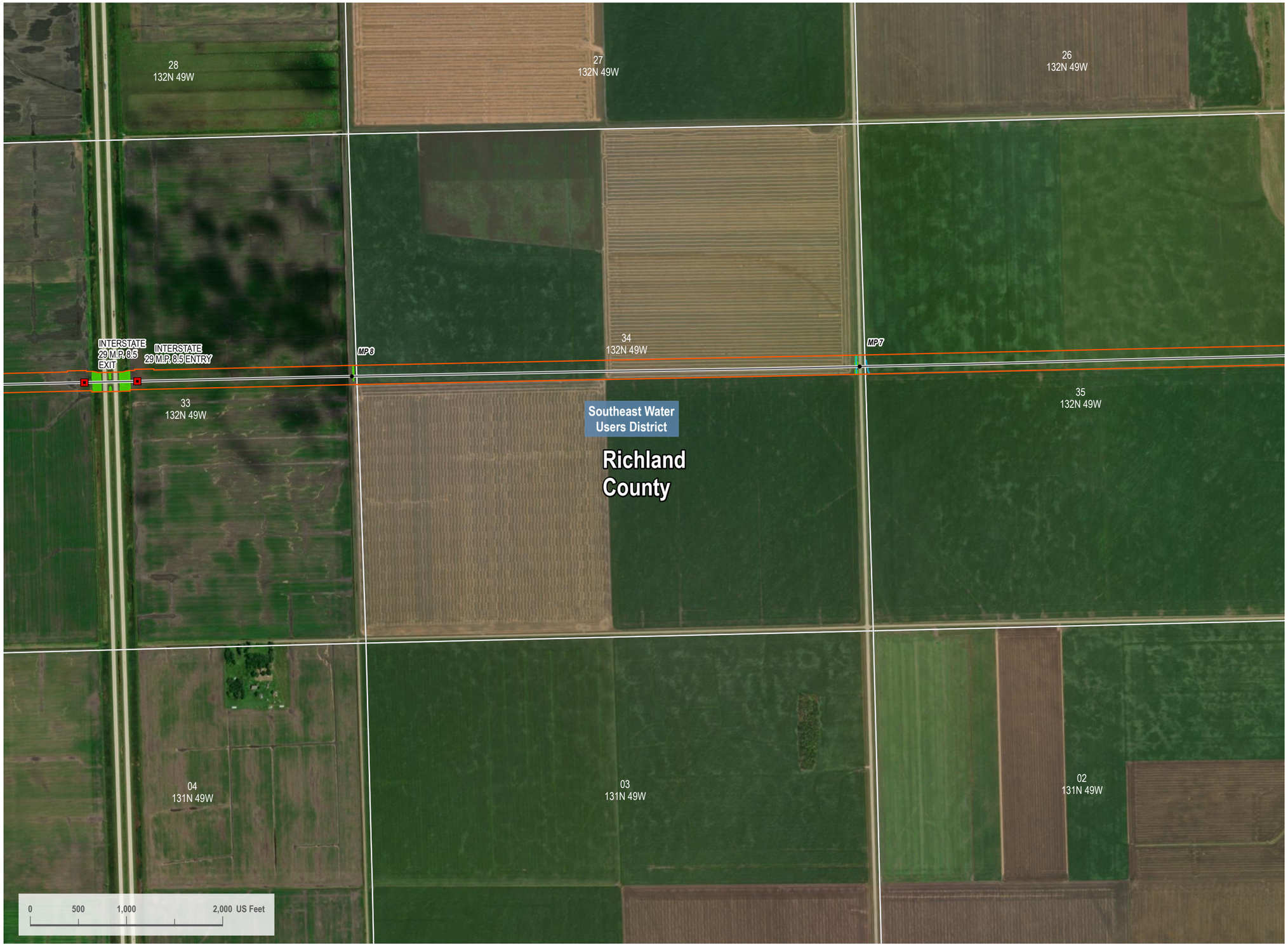
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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Figure Number:

Map Book 1

Scale:	Projection:
1 : 12,000 1 inch equals 1,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
81 81 of 149	1001-01-004 Revision A

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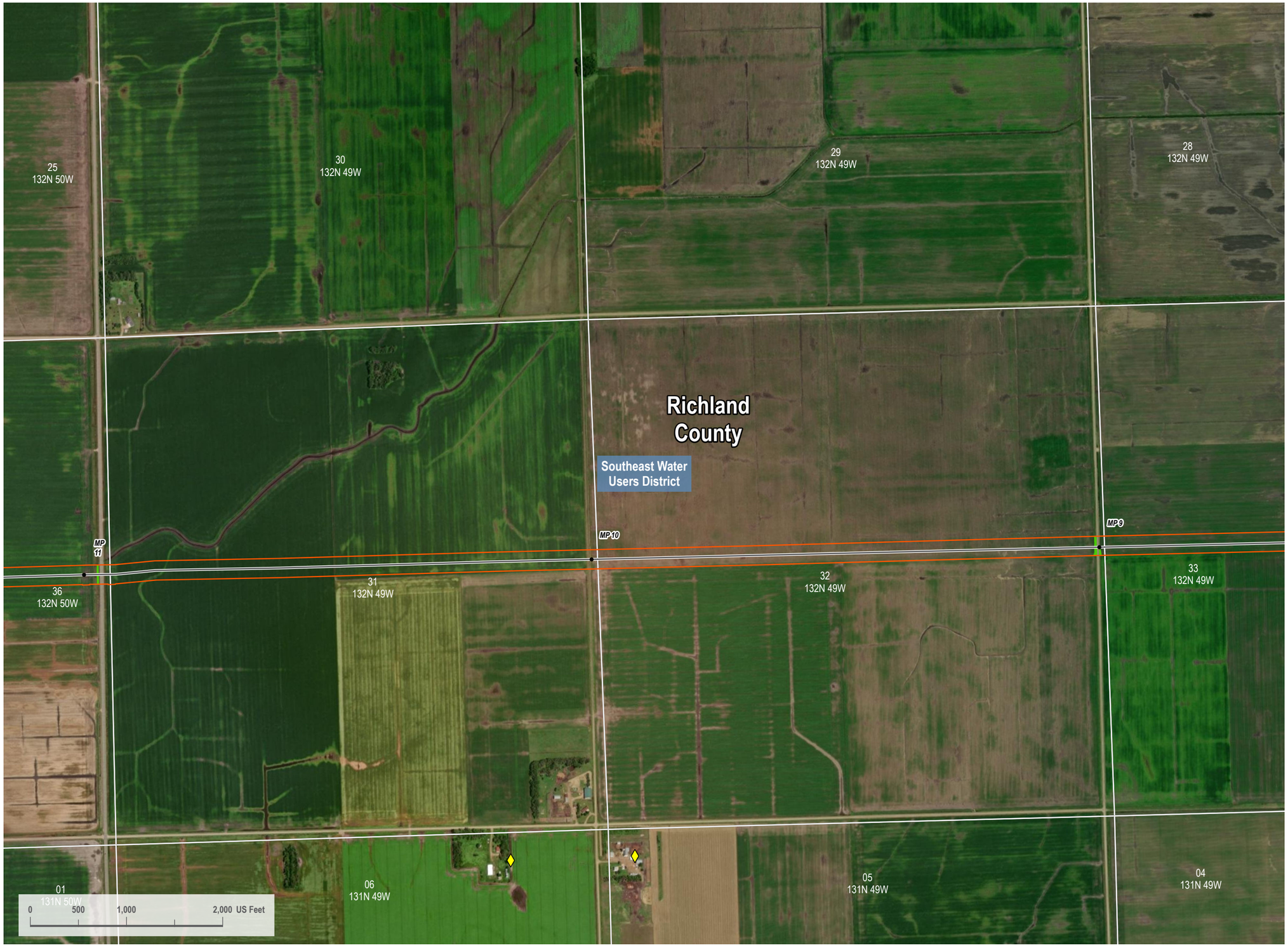

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

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Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
82
82 of 149

Drawing Number:
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Revision A

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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Figure Number:
Map Book 1

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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
83
83 of 149

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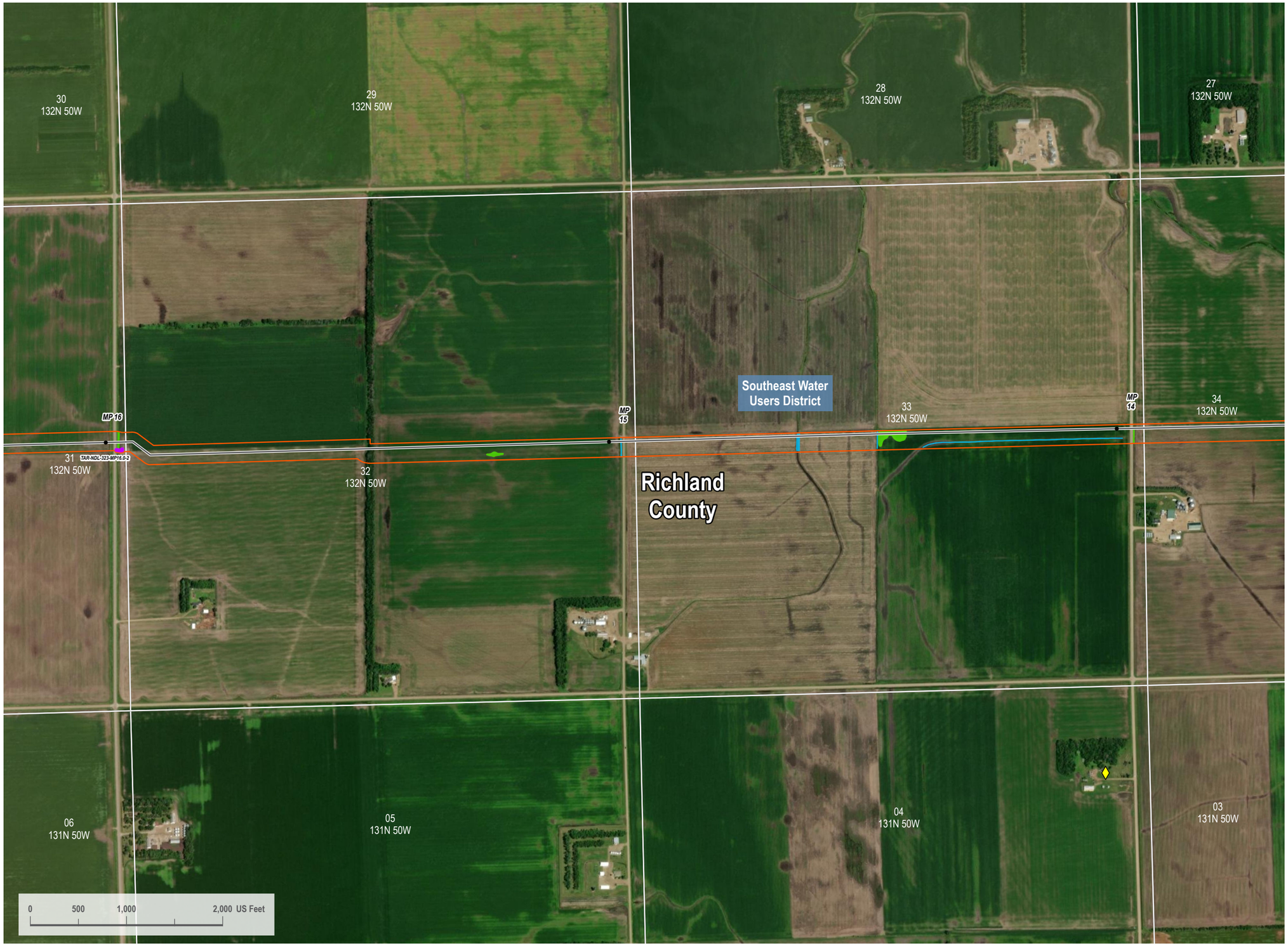

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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Figure Number:
Map Book 1

Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
84
84 of 149

Drawing Number:
1001-01-004
Revision A

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDL-323, NDT-211, NDL-324

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
85
85 of 149

Drawing Number:
1001-01-004
Revision A

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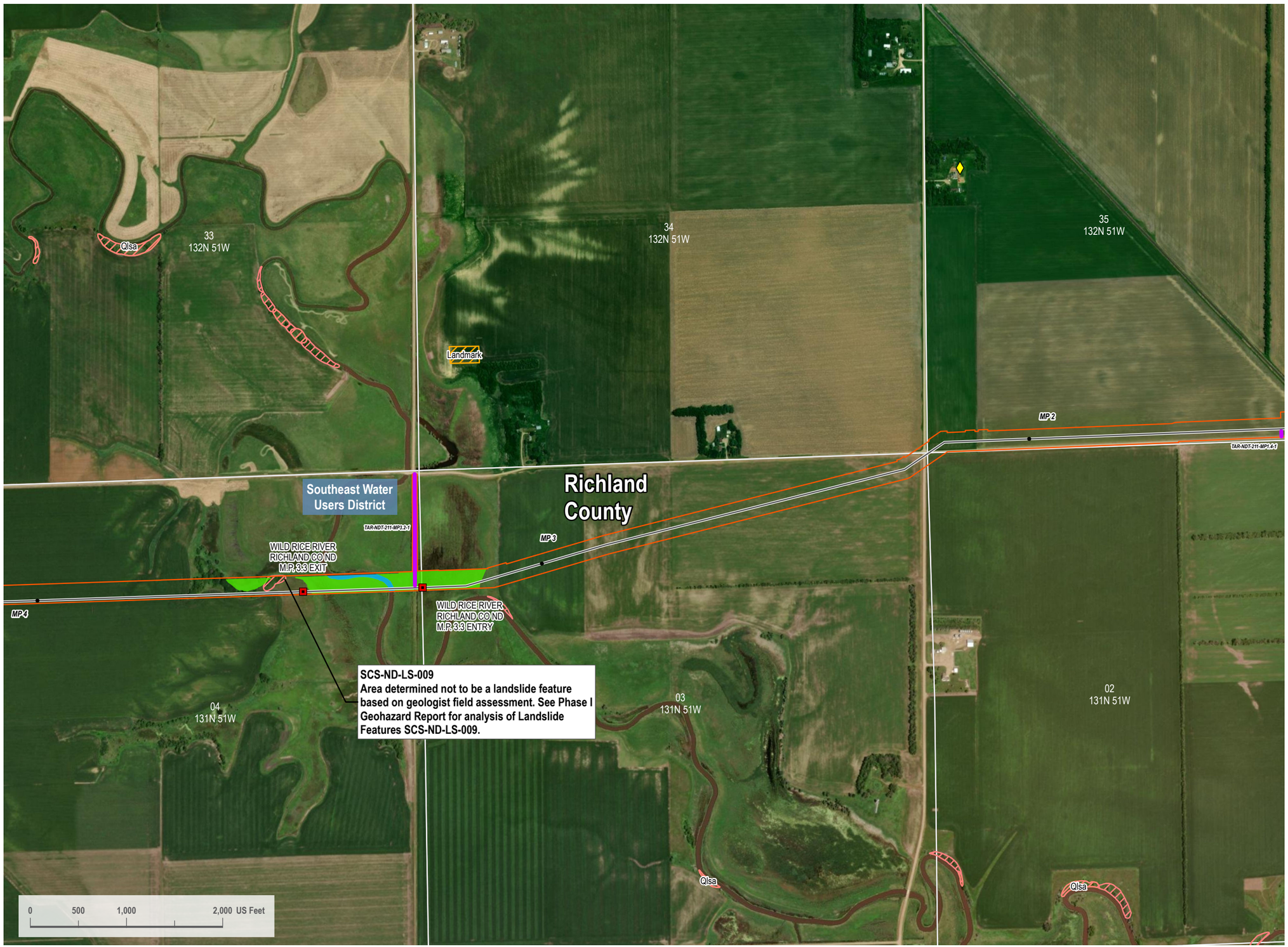

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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REVISIONS

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDT-211

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
86
86 of 149

Drawing Number:
1001-01-004
Revision A

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDT-211

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
87
87 of 149

Drawing Number:
1001-01-004
Revision A

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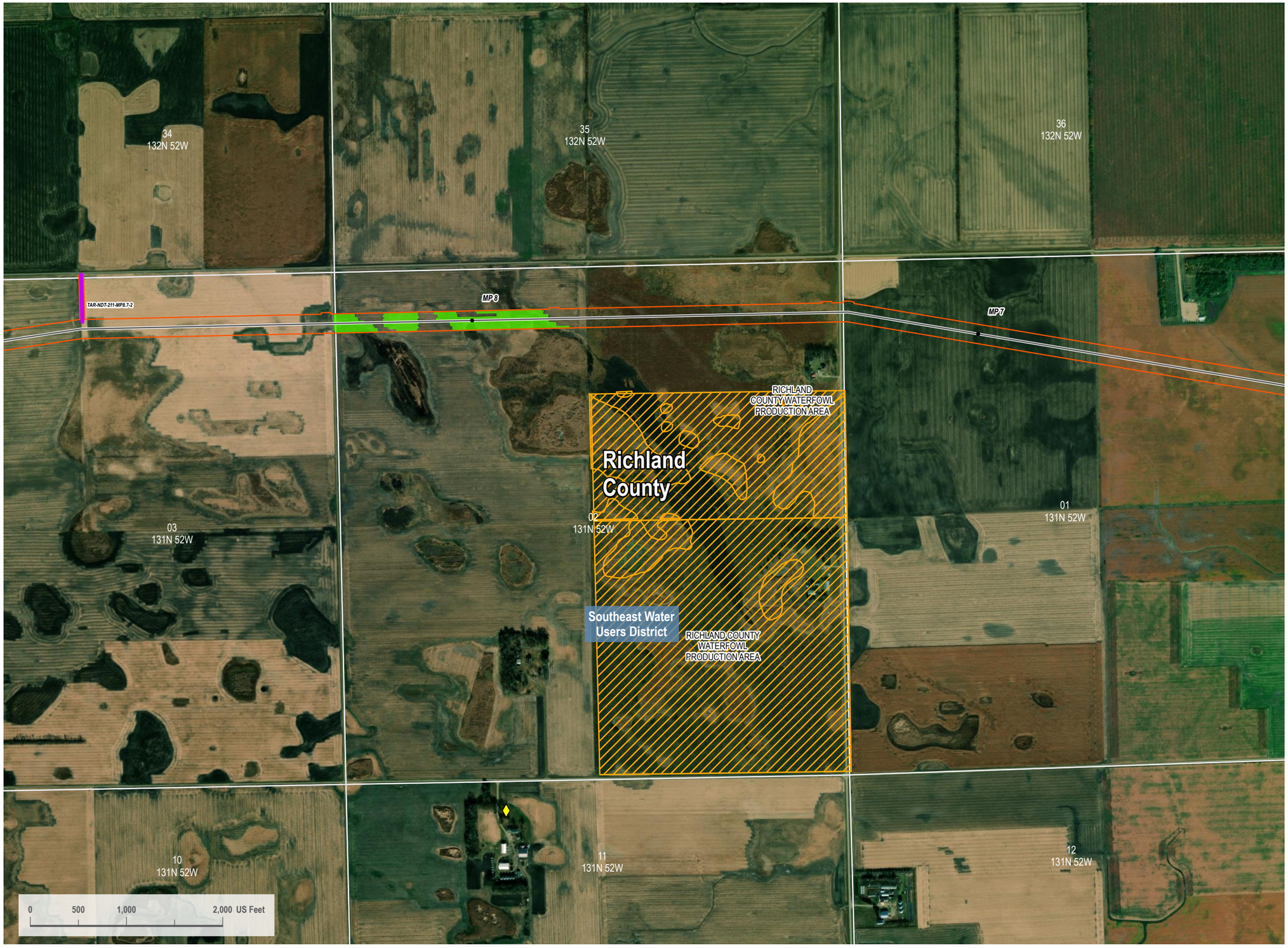
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDT-211

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
88
88 of 149

Drawing Number:
1001-01-004
Revision A

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Domestic Structure or Business (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- PFO Wetland
- 200-foot Siting Corridor

N

REVISIONS

Date:	Revised by:	Checked by:
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SUMMIT CARBON SOLUTIONS

PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDT-211

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
89
89 of 149

Drawing Number:
1001-01-004
Revision A

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

N

REVISIONS

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SUMMIT CARBON SOLUTIONS

PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDT-211

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
90
90 of 149

Drawing Number:
1001-01-004
Revision A

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VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- PFO Wetland
- Stream
- 200-foot Siting Corridor

N

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDT-211

Figure Number:
Map Book 1

Scale:	Projection:
1 : 12,000 1 inch equals 1,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
91 91 of 149	1001-01-004 Revision A

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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Figure Title:
ND PSC - Aerial Map Book - NDT-211

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
92
92 of 149

Drawing Number:
1001-01-004
Revision A

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34
132N 54W

35
132N 54W

36
132N 54W

03
131N 54W

02
131N 54W

01
131N 54W

Southeast Water Users District

Sargent County

MP 21

MP 20

MP 19

MLV-211-02

TAR-NDT-211-MP19.5-1

TAR-NDT-211-MP19.4-2

PAR-NDT-211-MP18.8-1

10
131N 54W

11
131N 54W

12
131N 54W

0 500 1,000 2,000 US Feet

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
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Figure Number:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
93
93 of 149

Drawing Number:
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Revision A

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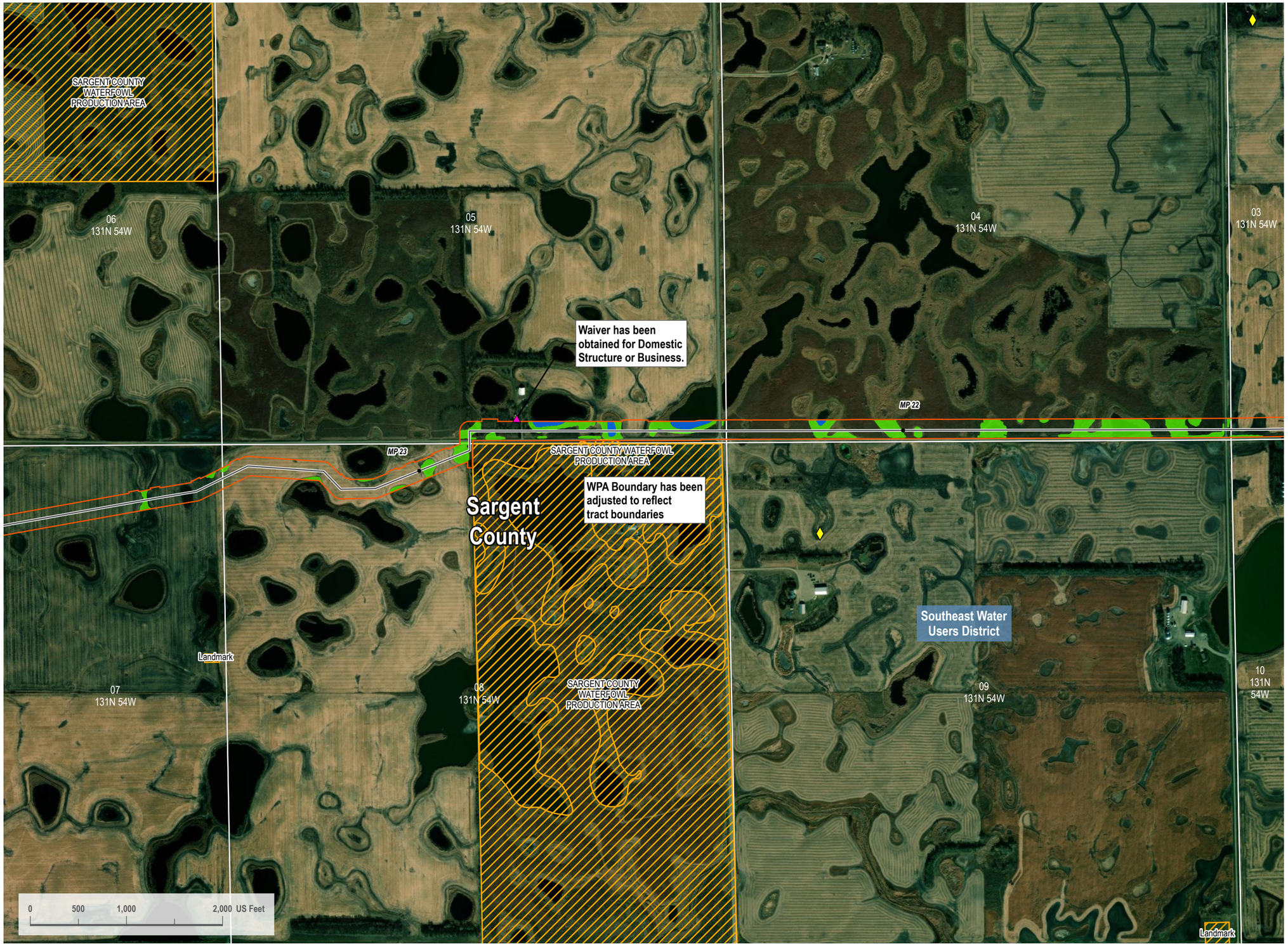

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Domestic Structure or Business (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

N

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Sheet:
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Drawing Number:
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

REVISIONS

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PROJECT INFORMATION

Figure Title:

ND PSC - Aerial Map Book - NDT-211

Figure Number:

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
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- Pump Station
- Avoidance Area
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- 200-foot Siting Corridor

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SARGENT COUNTY WATERFOWL PRODUCTION AREA

01
131N 56W

06
131N 55W

05
131N 55W

SARGENT COUNTY WATERFOWL PRODUCTION AREA

PEM1C
PEM1F
PEM1Cd

MP 29

MP 30

ENVIRO RESTRICTED AREAS MP 30.3 ENTRY

PEM1A

12
131N 56W

07
131N 55W

PEM1C

08
131N 55W

Sargent County

ENVIRO RESTRICTED AREAS MP 30.3 EXIT

SARGENT COUNTY WATERFOWL PRODUCTION AREA

WPA Crossed by HDD; No surface disturbance to the WPA.

MP 31

Southeast Water Users District

PEM1A

PEM1C

PEM1C

SARGENT COUNTY WATERFOWL PRODUCTION AREA

13
131N 56W

18
131N 55W

SARGENT COUNTY WATERFOWL PRODUCTION AREA

17
131N 55W

0 500 1,000 2,000 US Feet

VICINITY MAP



LEGEND

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VICINITY MAP



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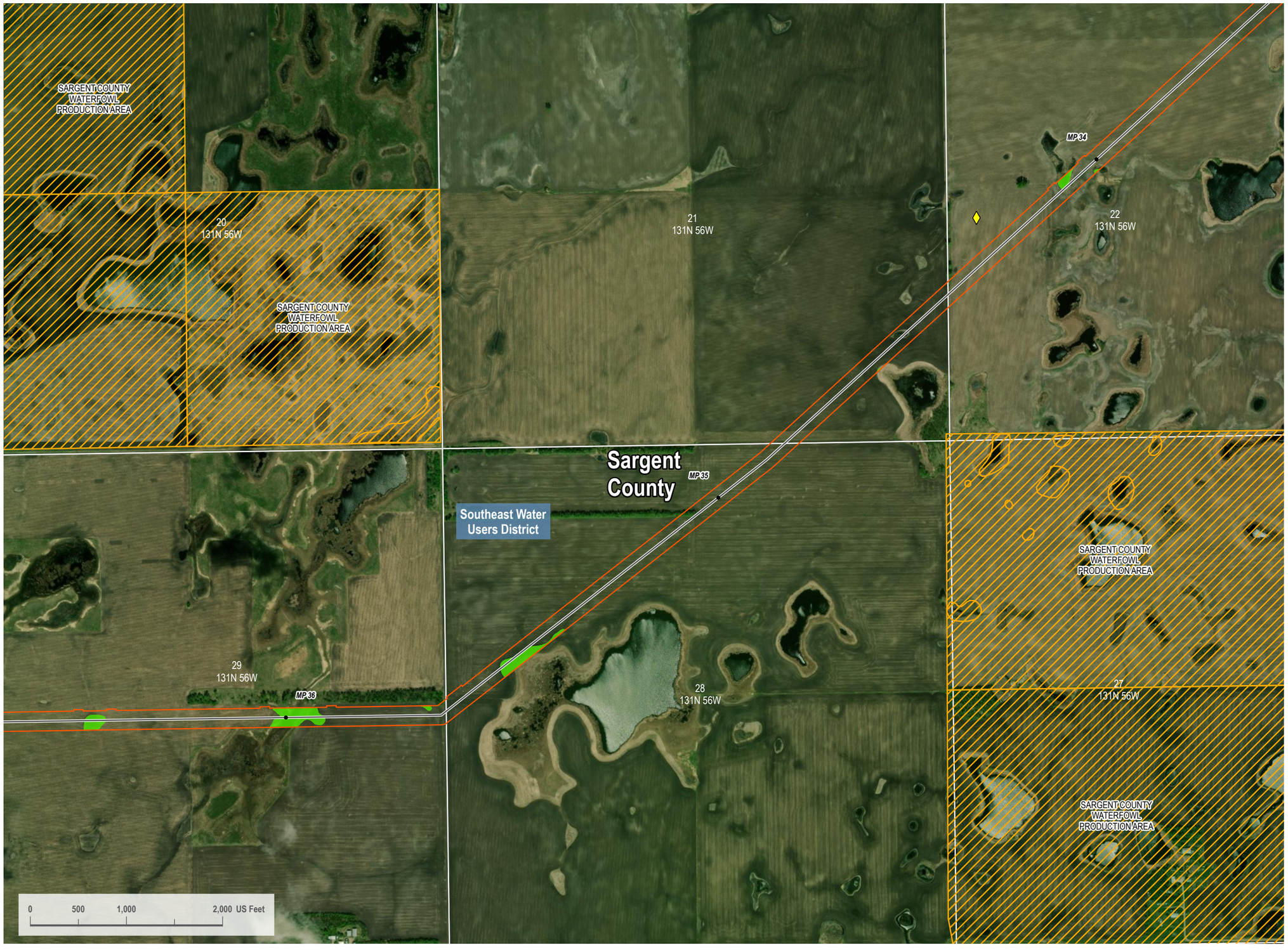

VICINITY MAP



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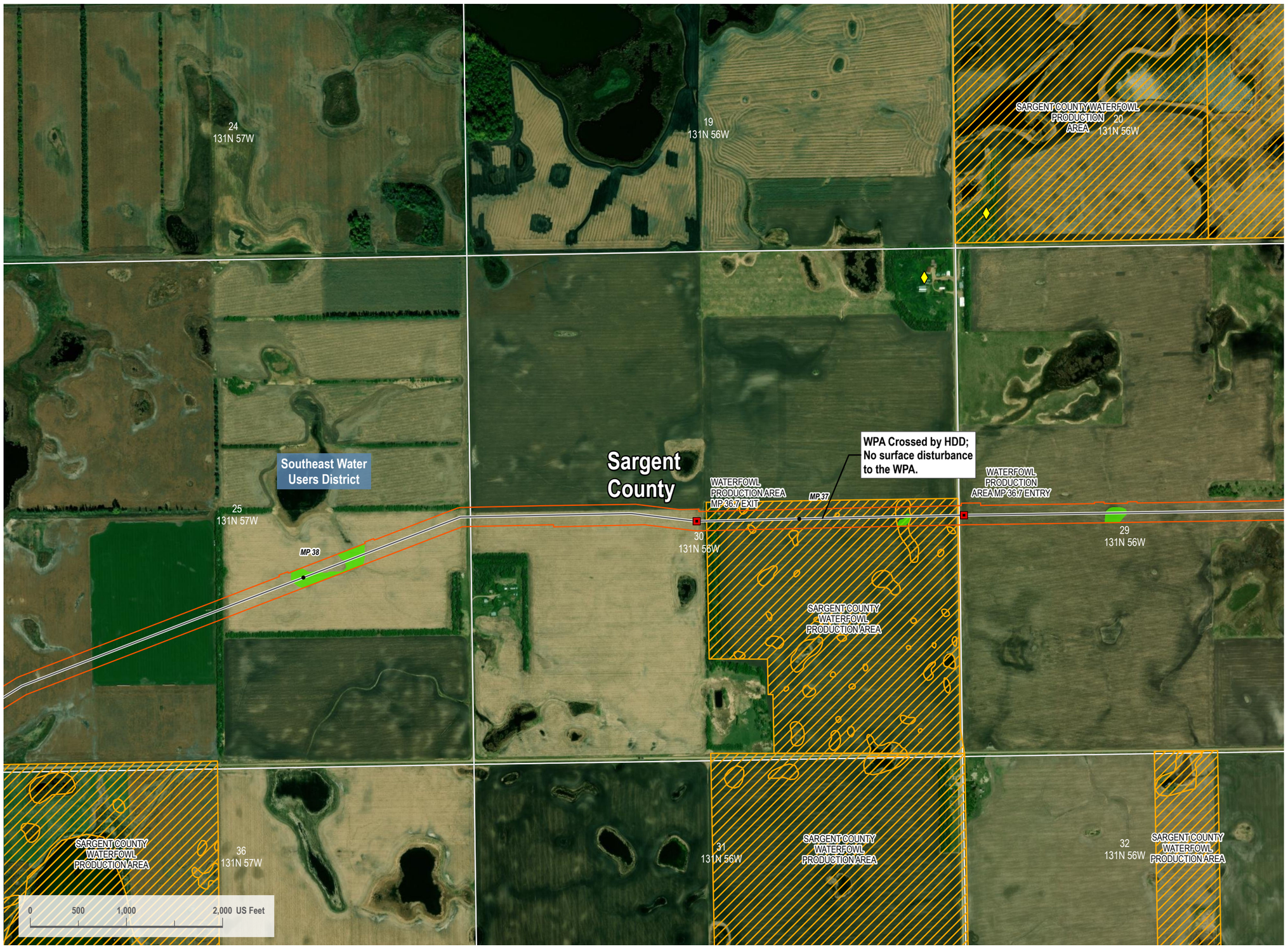

VICINITY MAP



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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
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VICINITY MAP



LEGEND

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VICINITY MAP



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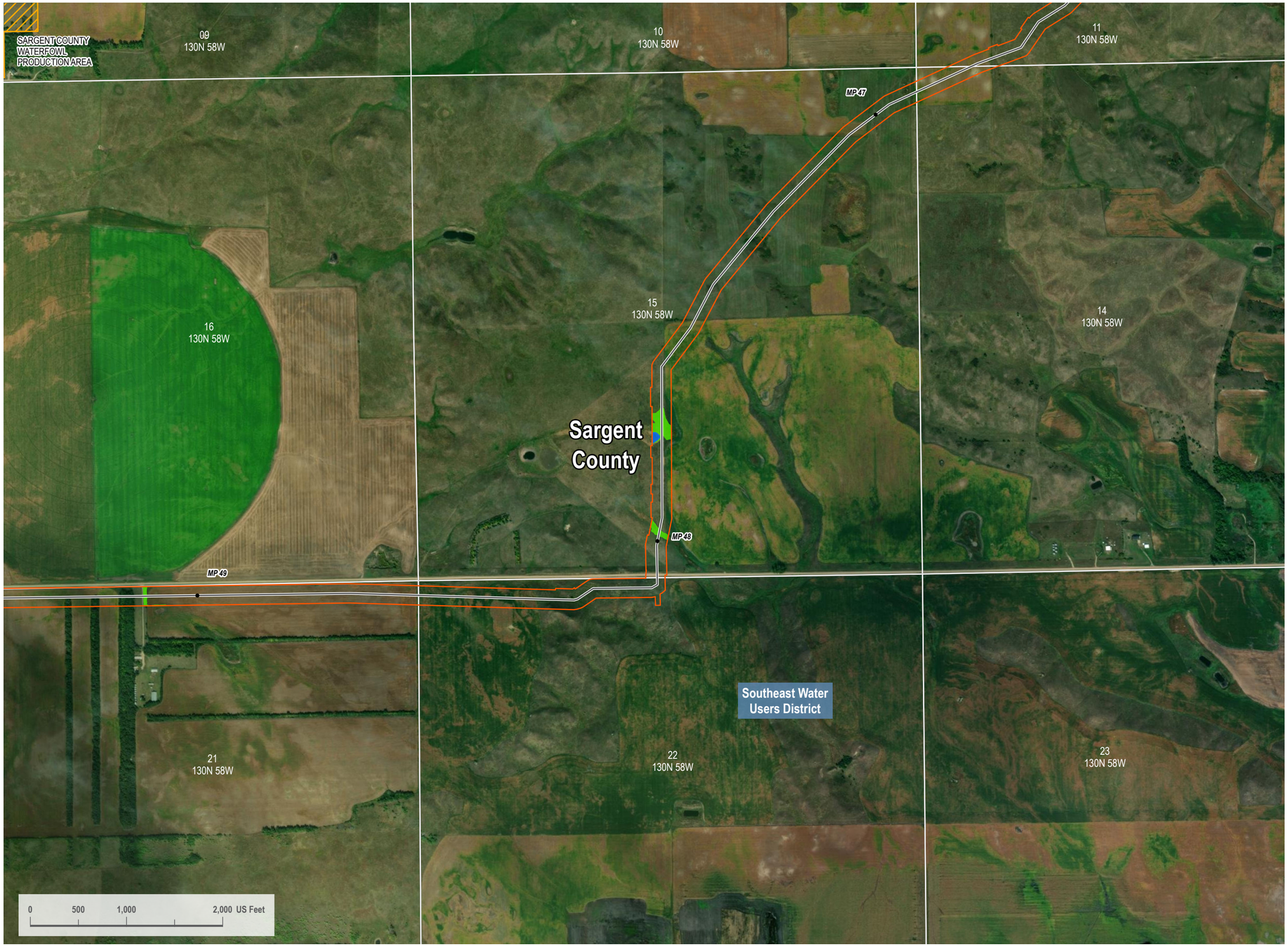

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

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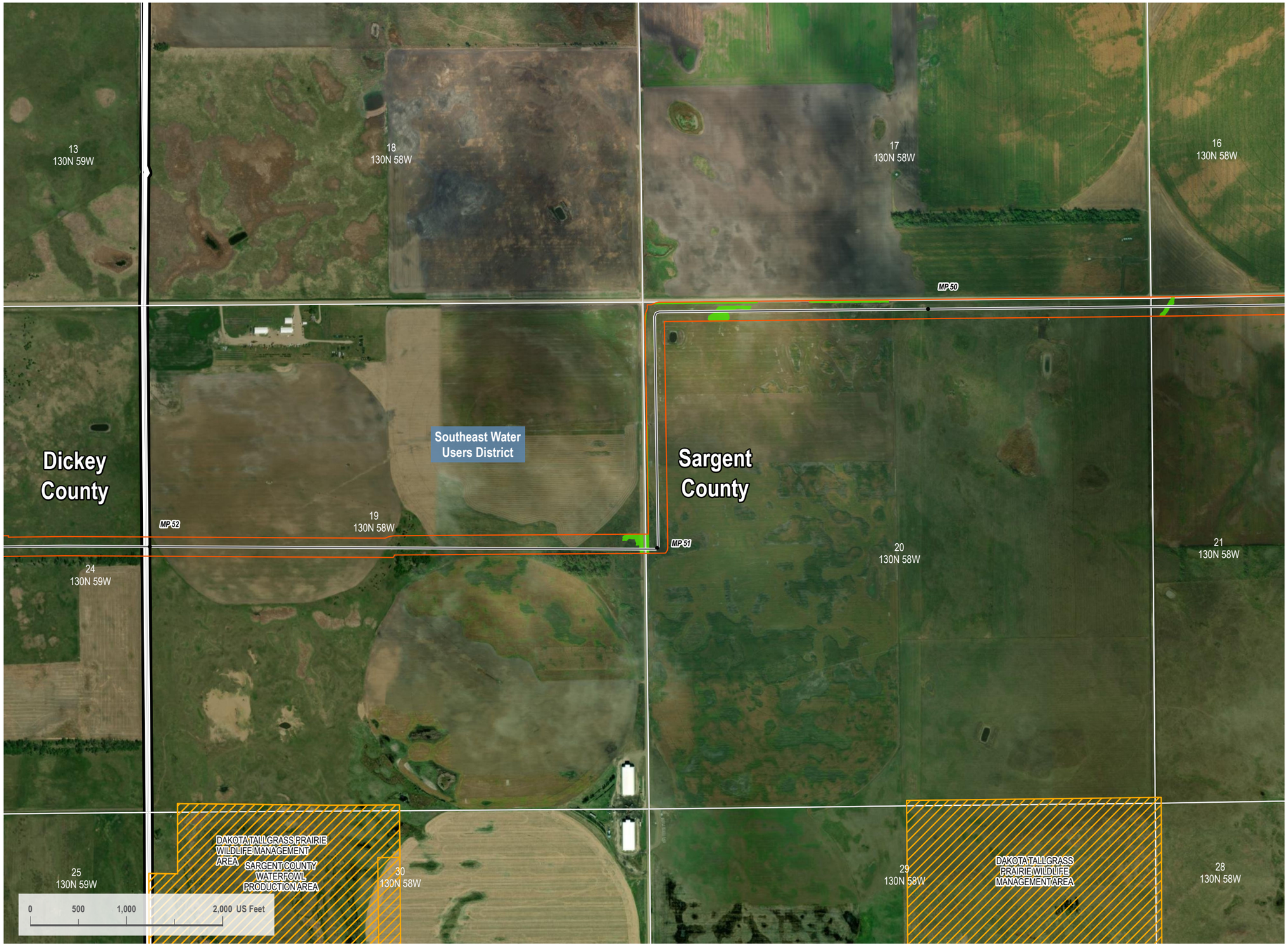

VICINITY MAP



LEGEND

- Centerline Mileposts
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- Section Line
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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
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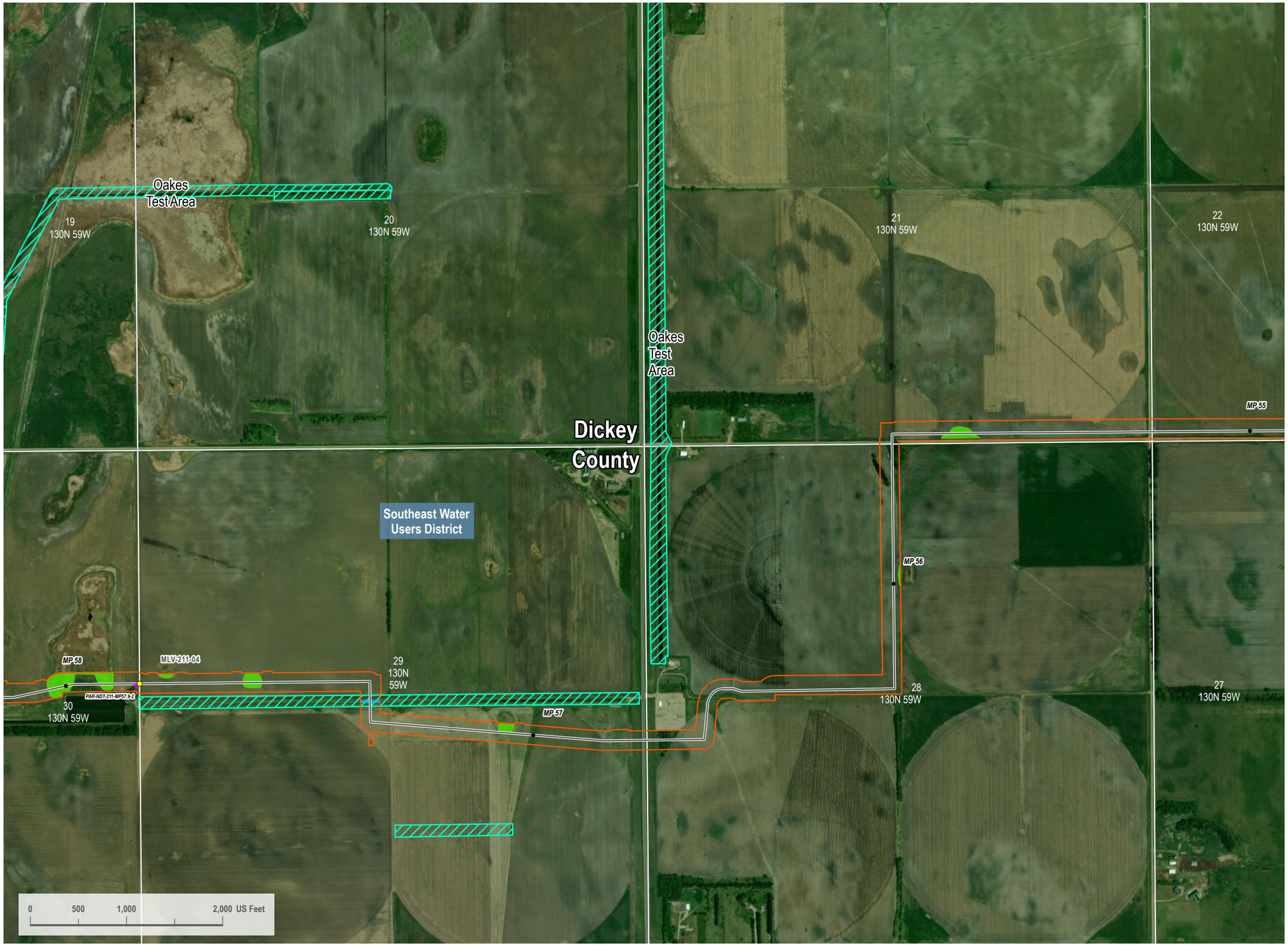

VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor
- Dickey-Sargeant Irrigation District

N

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
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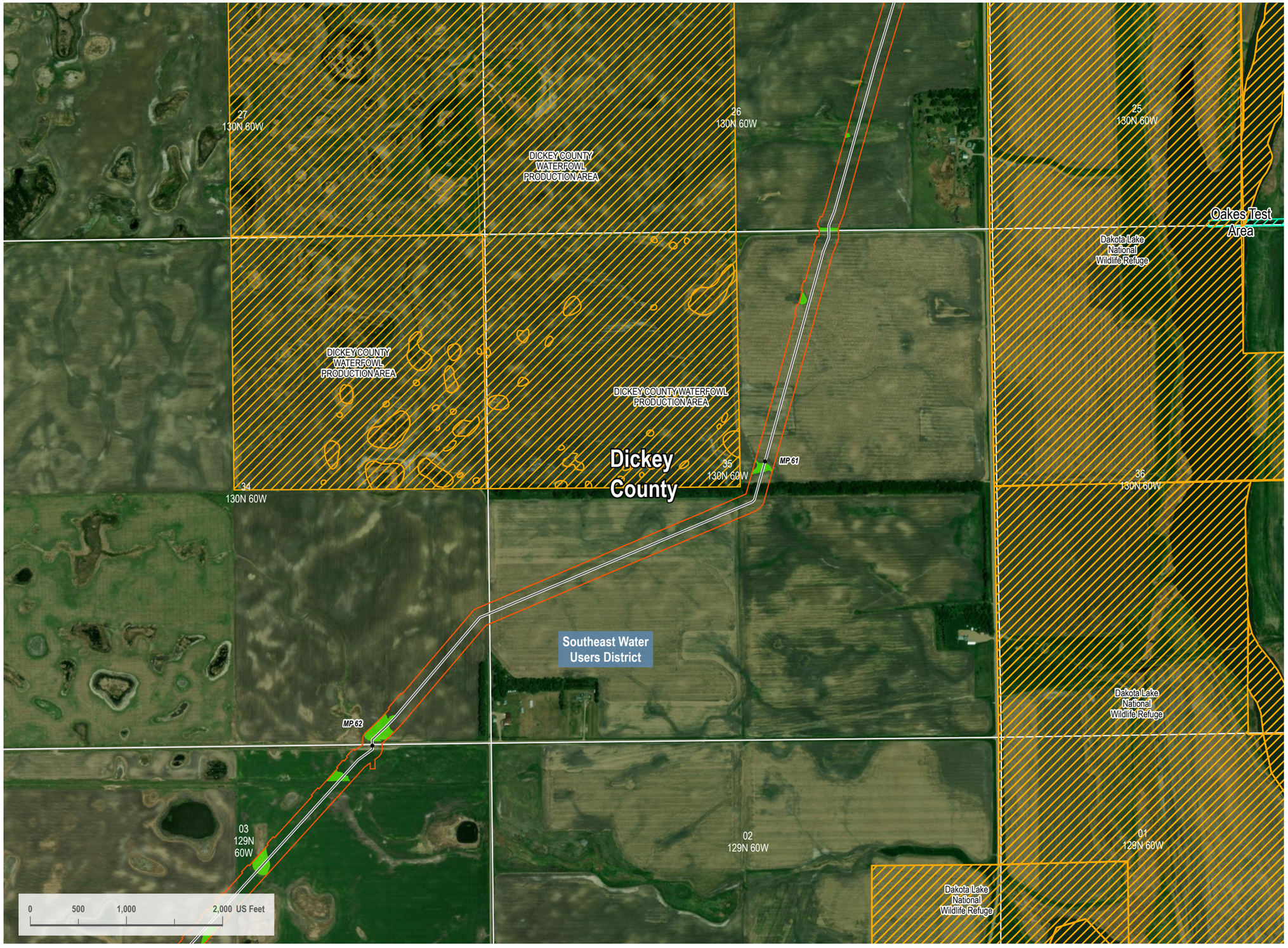

VICINITY MAP



LEGEND

- Centerline Mileposts
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- Pump Station
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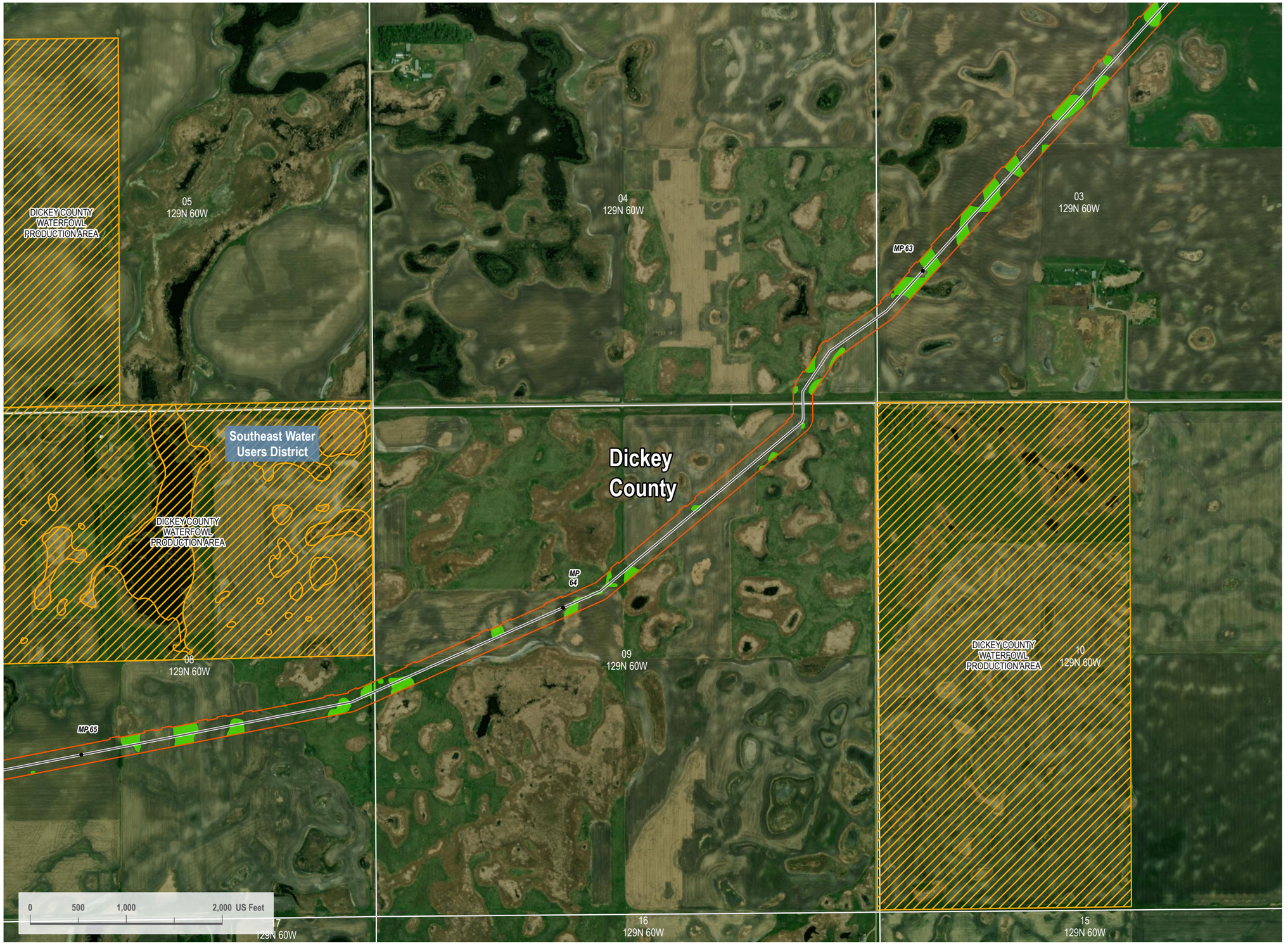

VICINITY MAP



LEGEND

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02
129N 61W

01
129N 61W

06
129N 60W

05
129N 60W

11
129N 61W

12
129N 61W

07
129N 60W

08
129N 60W

DICKEY COUNTY WATERFOWL PRODUCTION AREA

Wetlands Reserve Program (WRP), Dickey, ND

Wetlands Reserve Program (WRP)

Dickey County

Southeast Water Users District

DICKEY COUNTY WATERFOWL PRODUCTION AREA

Wetlands Reserve Program (WRP), Dickey, ND

Wetlands Reserve Program (WRP)

MP 66

MP 67

TAR-NDT-211-MP65.5-1

14
129N 61W

13
129N 61W

18
129N 60W

17
129N 60W

0 500 1,000 2,000 US Feet

VICINITY MAP



LEGEND

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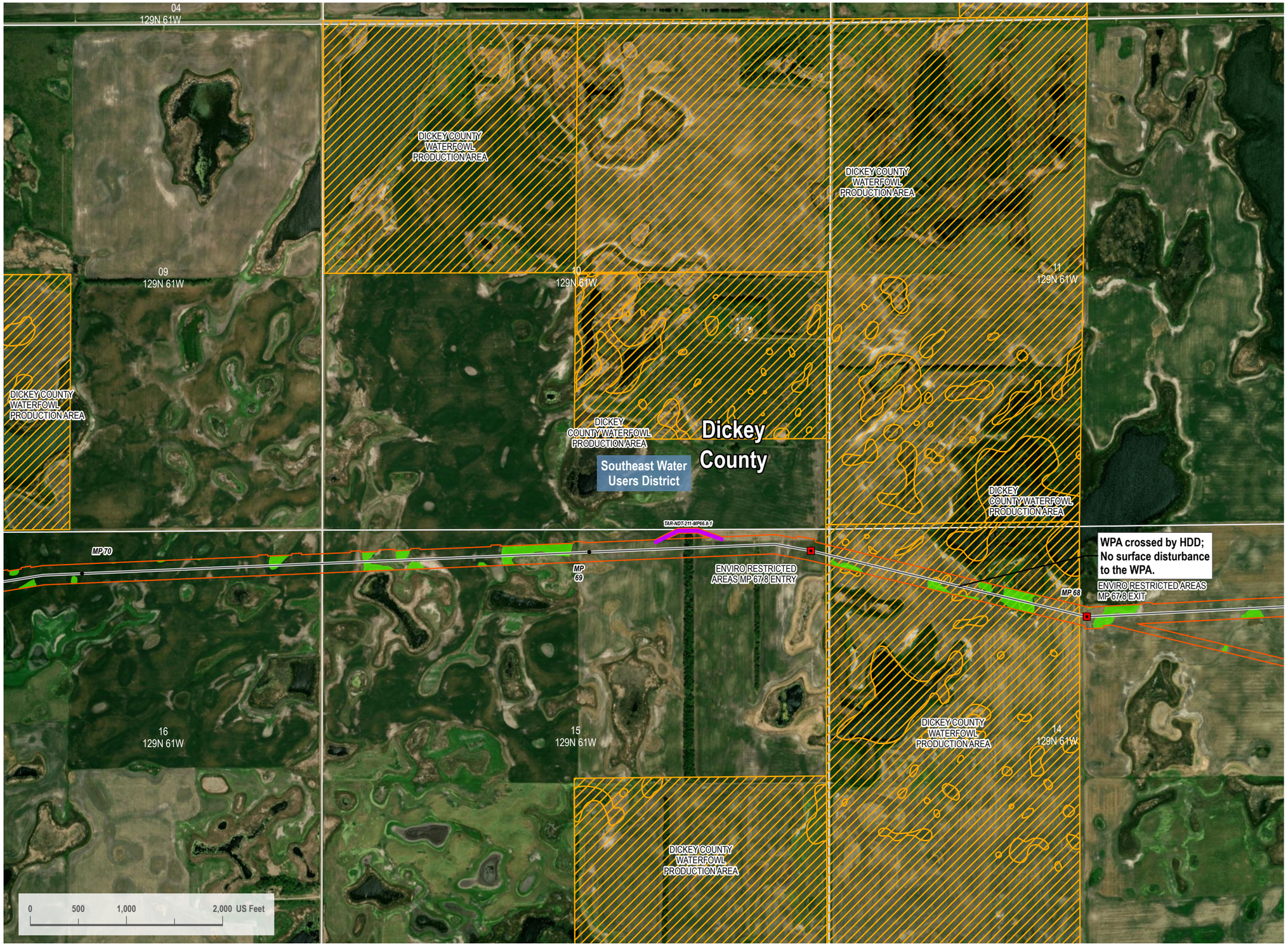

VICINITY MAP



LEGEND

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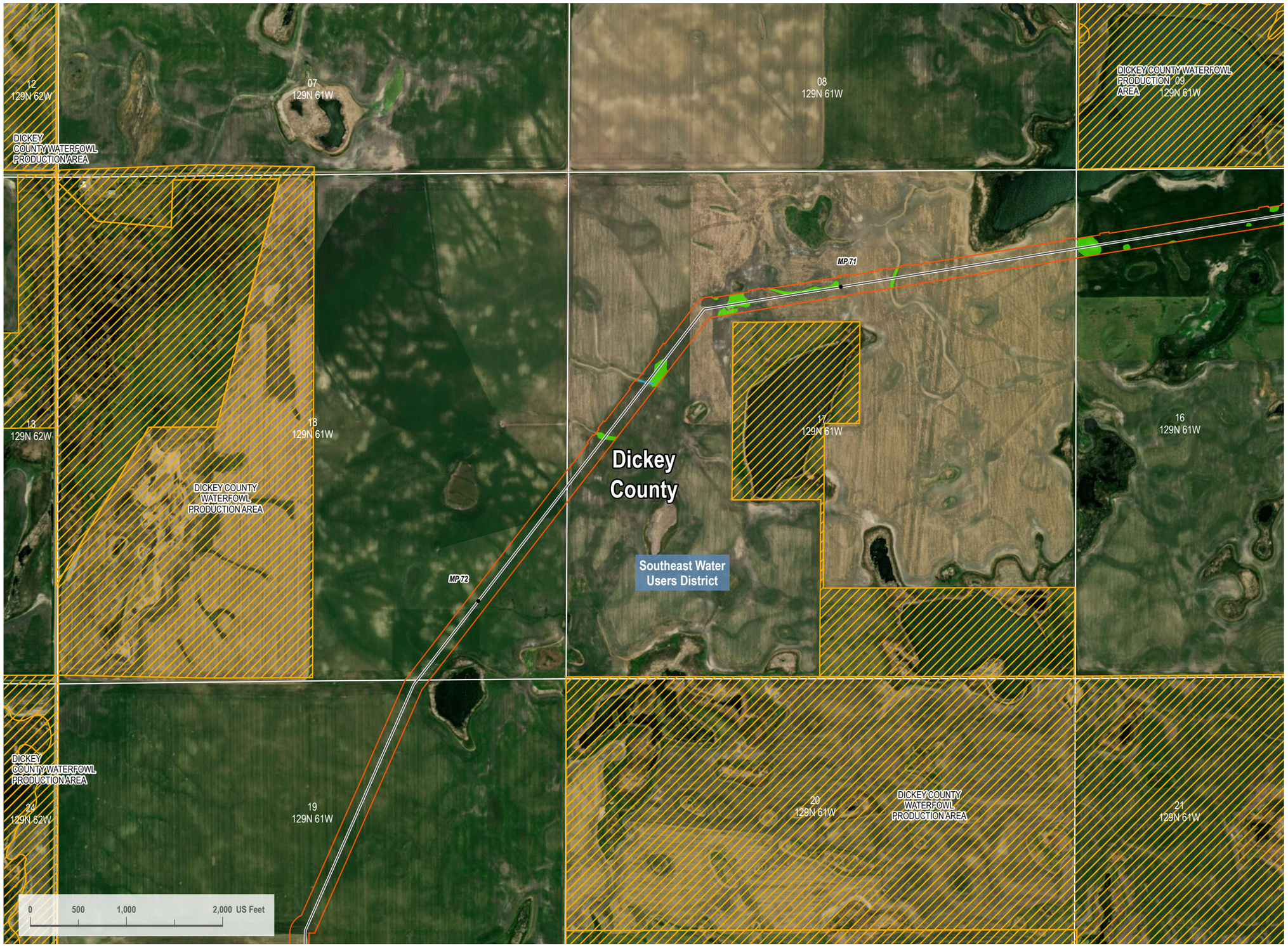

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

REVISIONS

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDT-211

Figure Number:
Map Book 1

Scale:	Projection:
1 : 12,000 1 inch equals 1,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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ND PSC - AERIAL MAP BOOK

DICKEY COUNTY WATERFOWL PRODUCTION AREA
23
129N 62W

DICKEY COUNTY WATERFOWL PRODUCTION AREA
24
129N 62W

19
129N 61W

MP 73

MP 75

Dickey County

Southeast Water Users District

MP 74

DICKEY COUNTY WATERFOWL PRODUCTION AREA

26
129N 62W

25
129N 62W

30
129N 61W

DICKEY COUNTY WATERFOWL PRODUCTION AREA

DICKEY COUNTY WATERFOWL PRODUCTION AREA
35
129N 62W

36
129N 62W

31
129N 61W

0 500 1,000 2,000 US Feet

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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1 : 12,000
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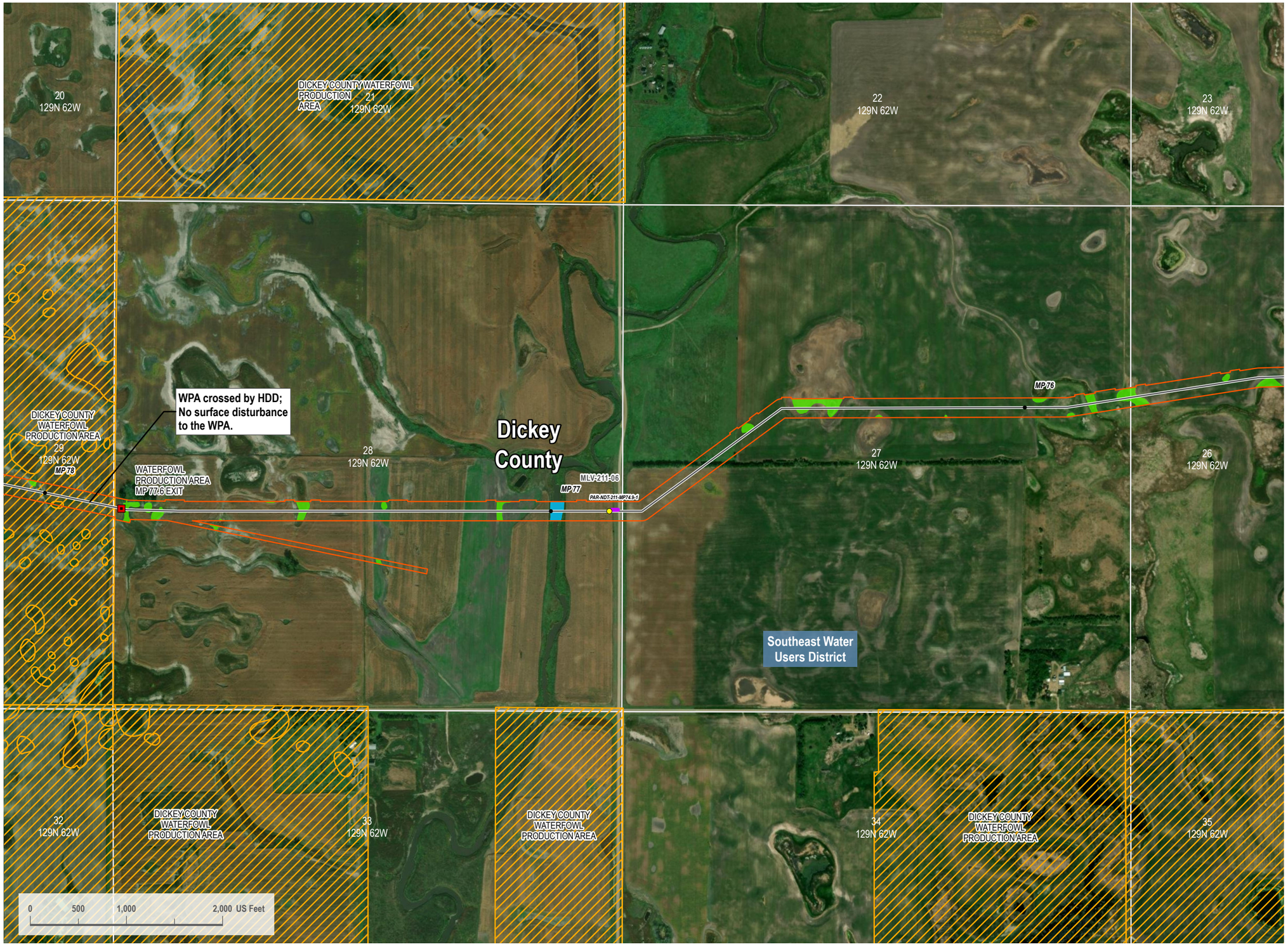
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

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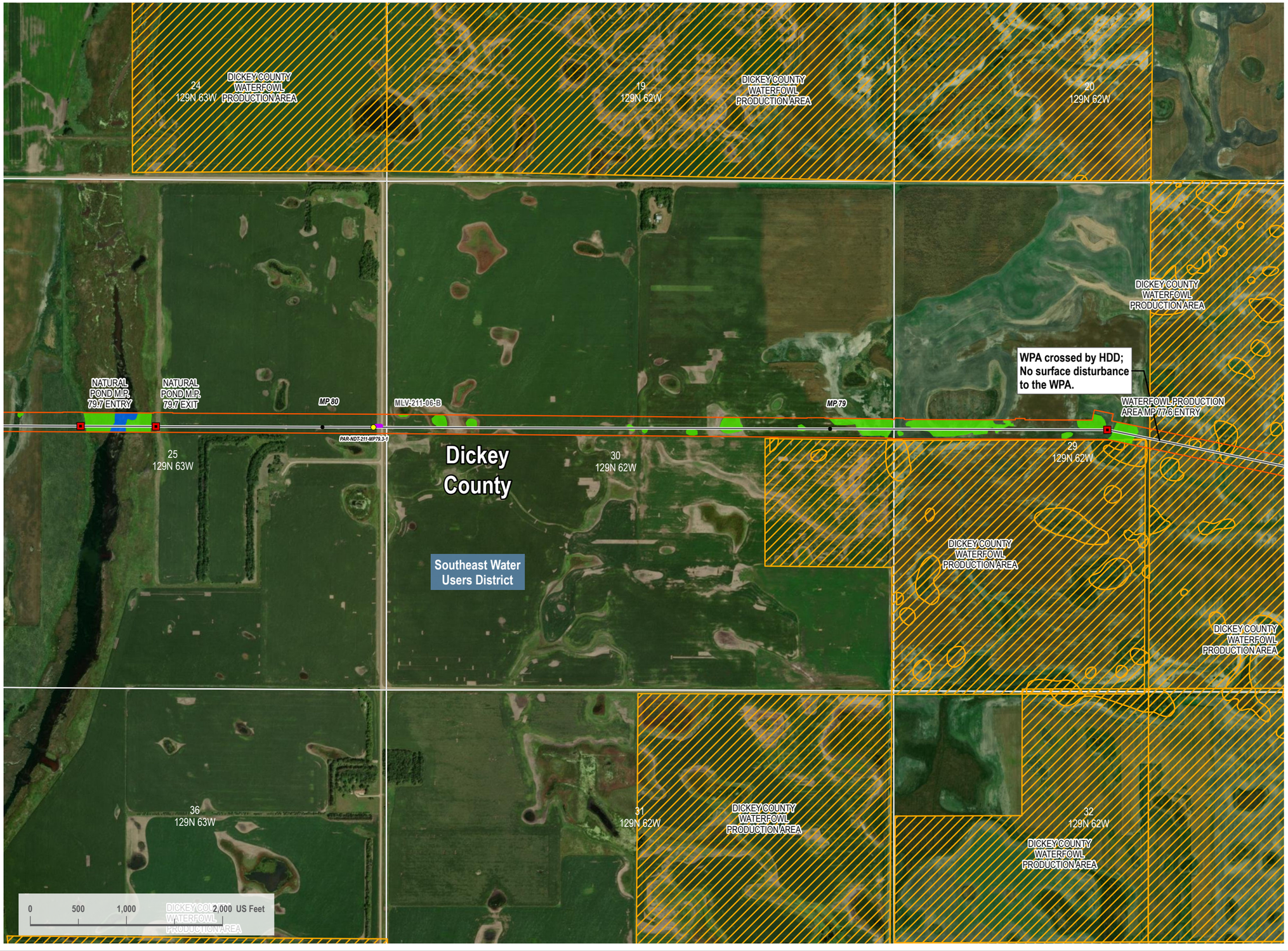
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

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Projection:
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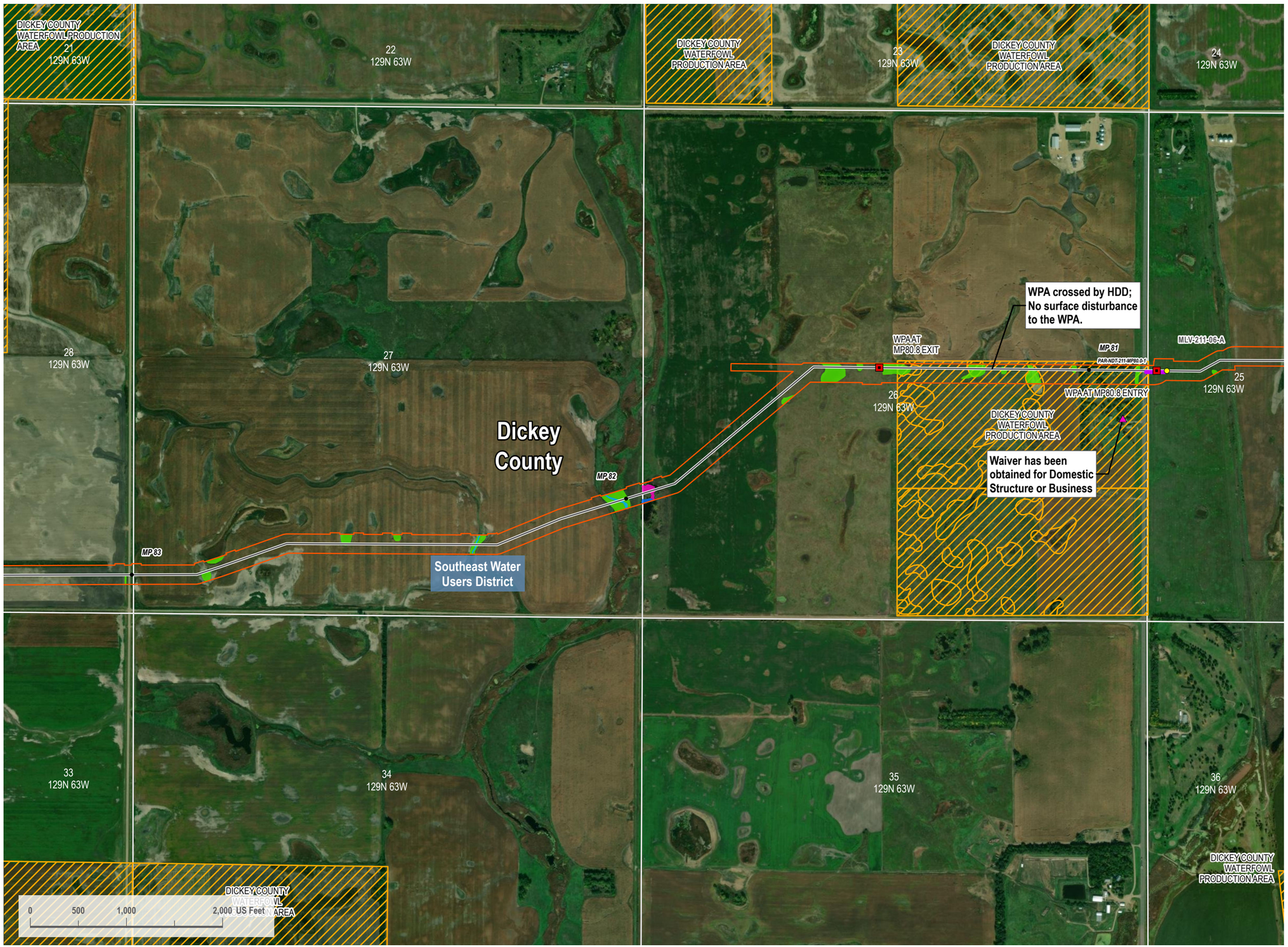

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Domestic Structure or Business (Avoidance)
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- PSS Wetland
- Stream
- 200-foot Siting Corridor

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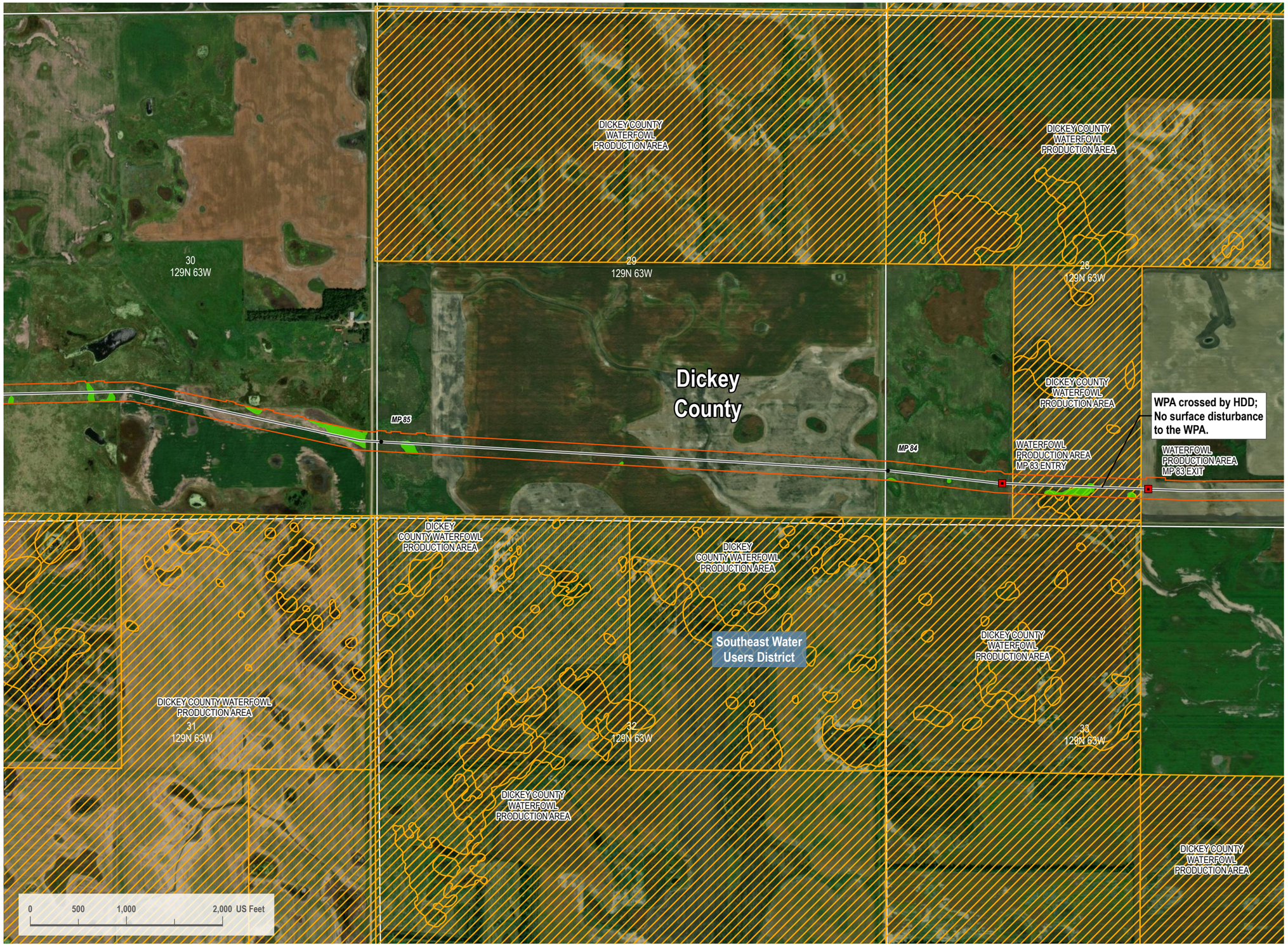

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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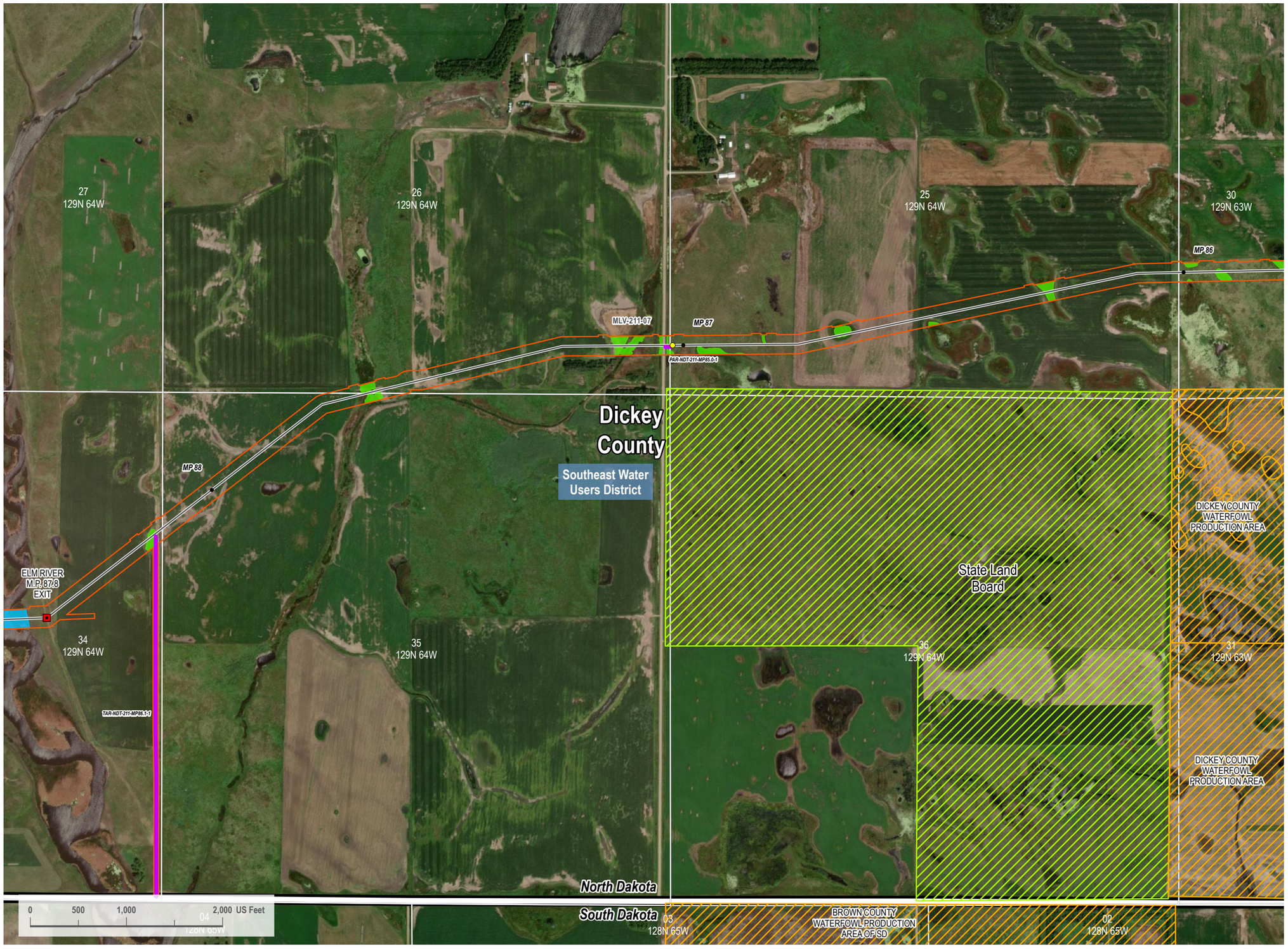

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor
- State Resource Management Area

N

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VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

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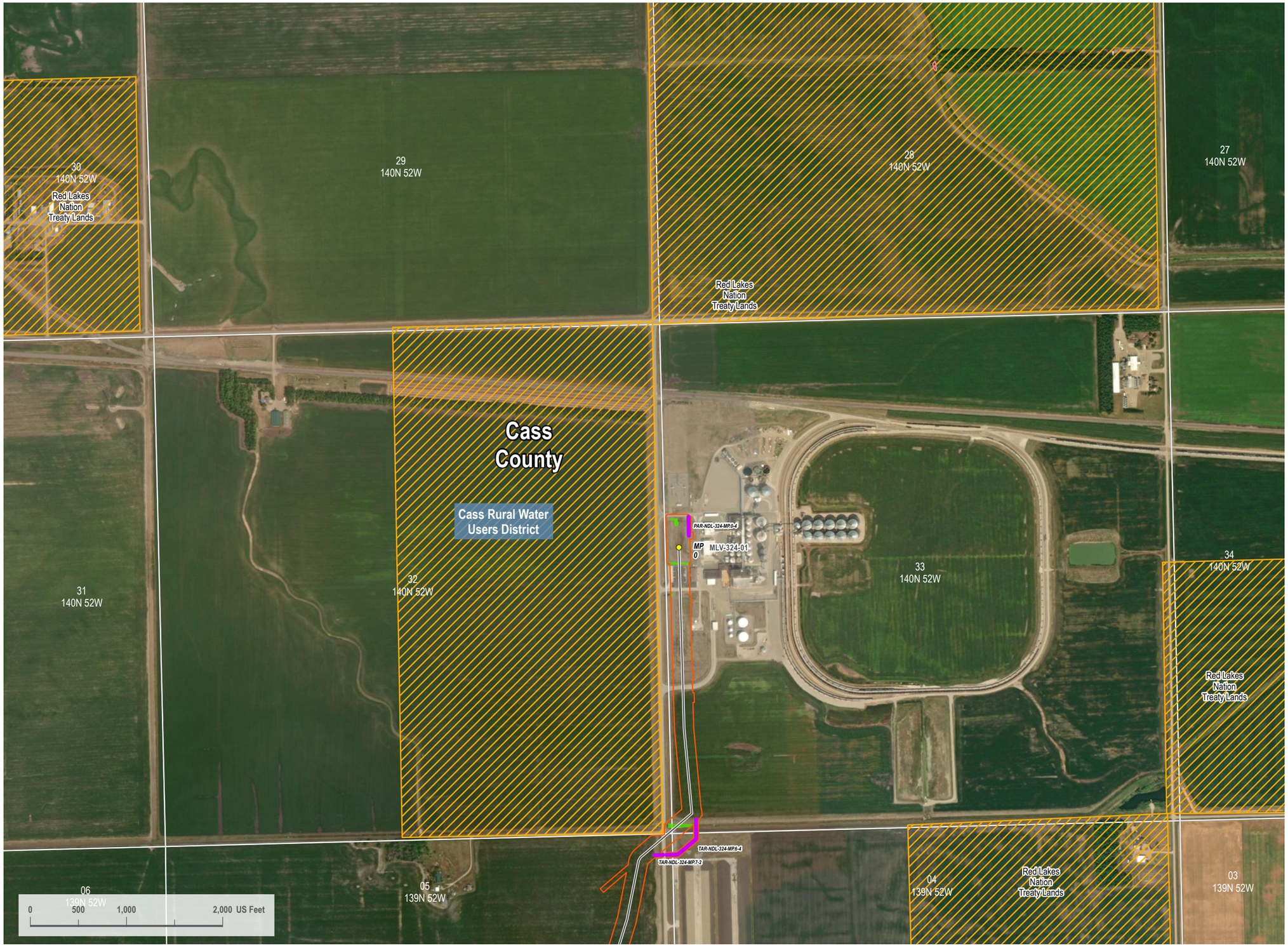
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

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PROJECT INFORMATION

Figure Title:
ND PSC - Aerial Map Book - NDL-324

Figure Number:
Map Book 1

Scale:
1 : 12,000
1 inch equals 1,000 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
121
121 of 149

Drawing Number:
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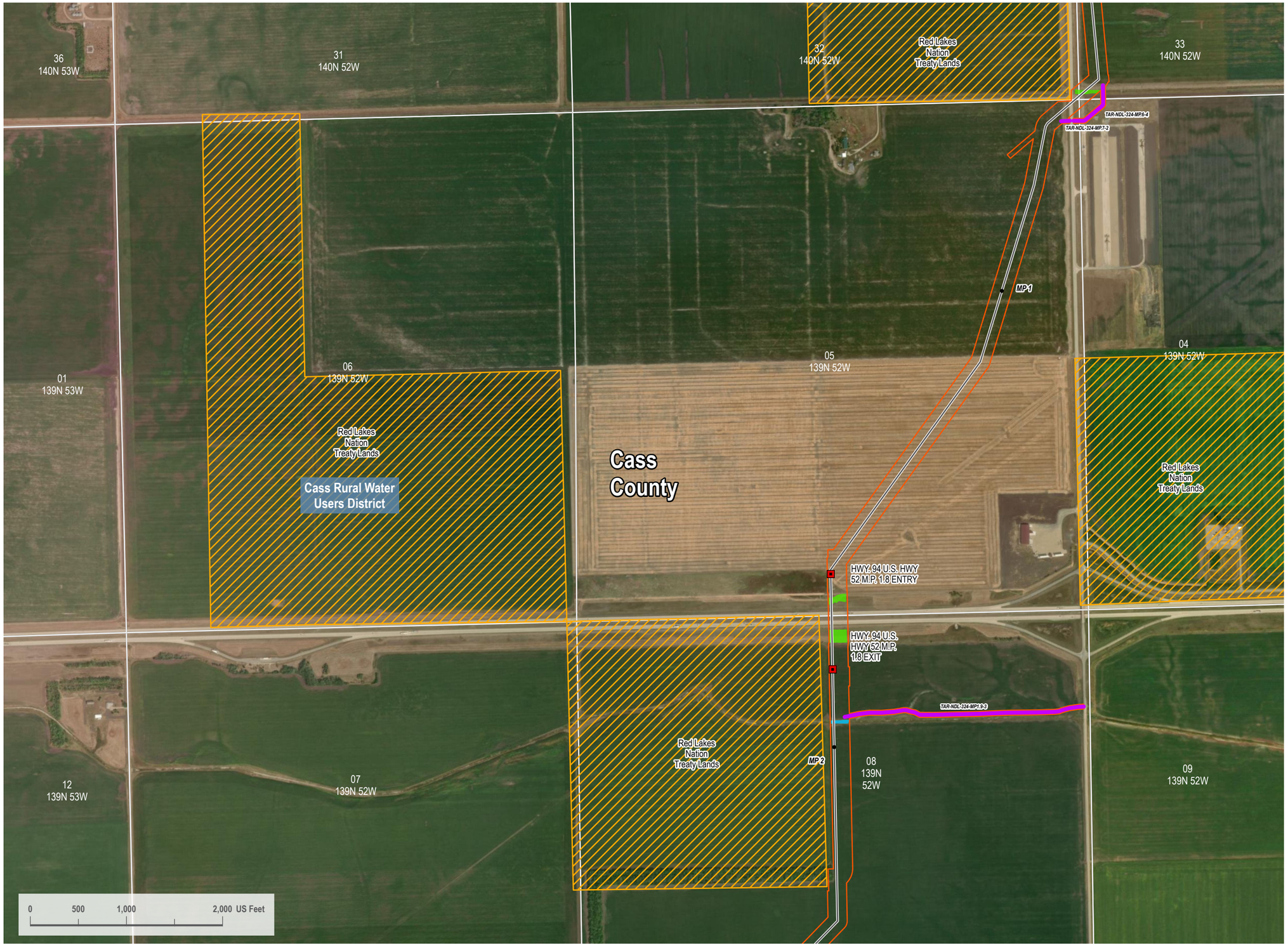

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

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Figure Title:

ND PSC - Aerial Map Book - NDL-324

Figure Number:

Map Book 1

Scale:	Projection:
1 : 12,000 1 inch equals 1,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- 200-foot Siting Corridor

N

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Figure Number:
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- PEM Wetland
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Figure Number:
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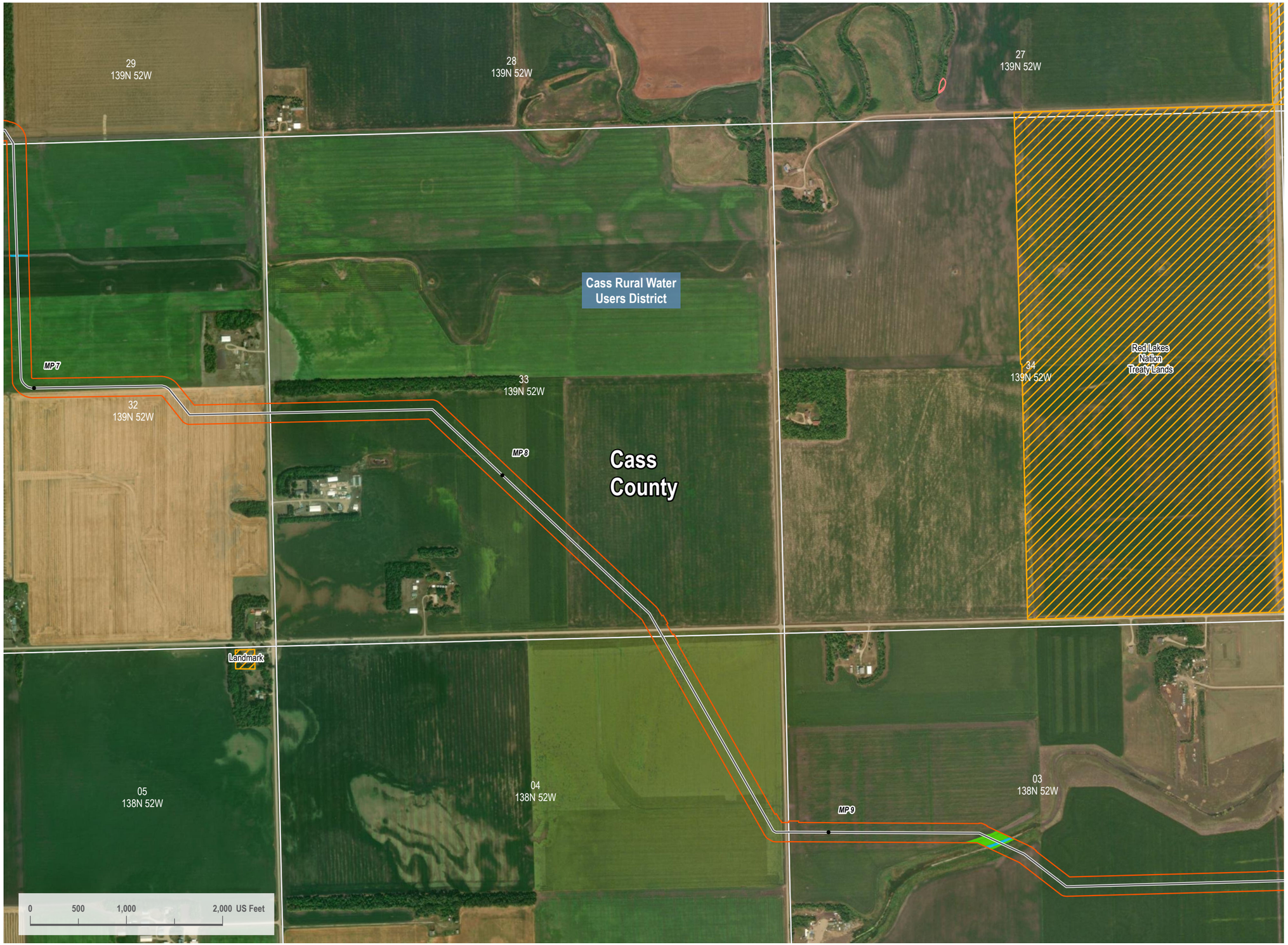

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
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- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- 200-foot Siting Corridor

N

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
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- Access Road
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- Avoidance Area
- PEM Wetland
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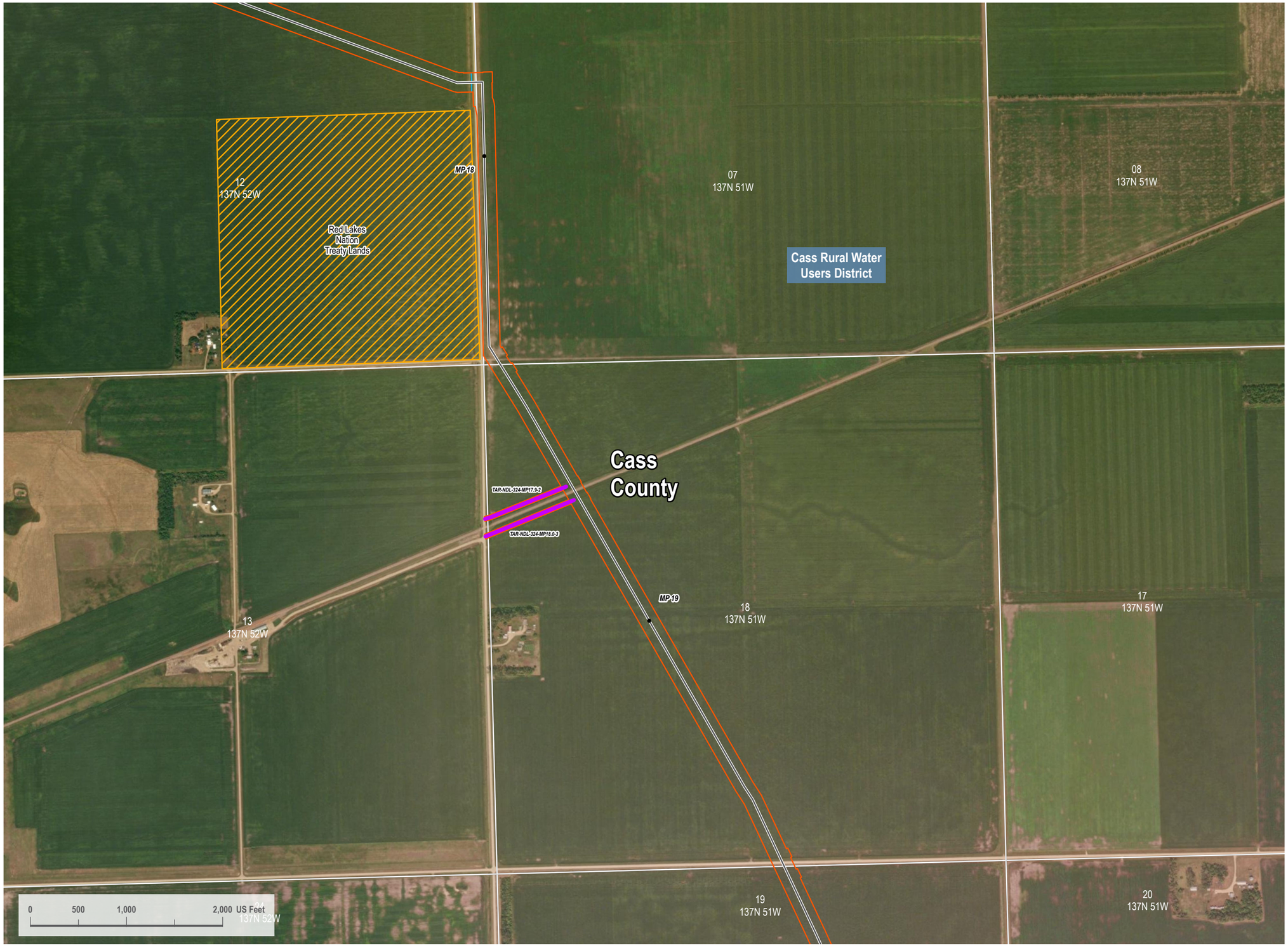

VICINITY MAP



LEGEND

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Projection:
Transverse Mercator
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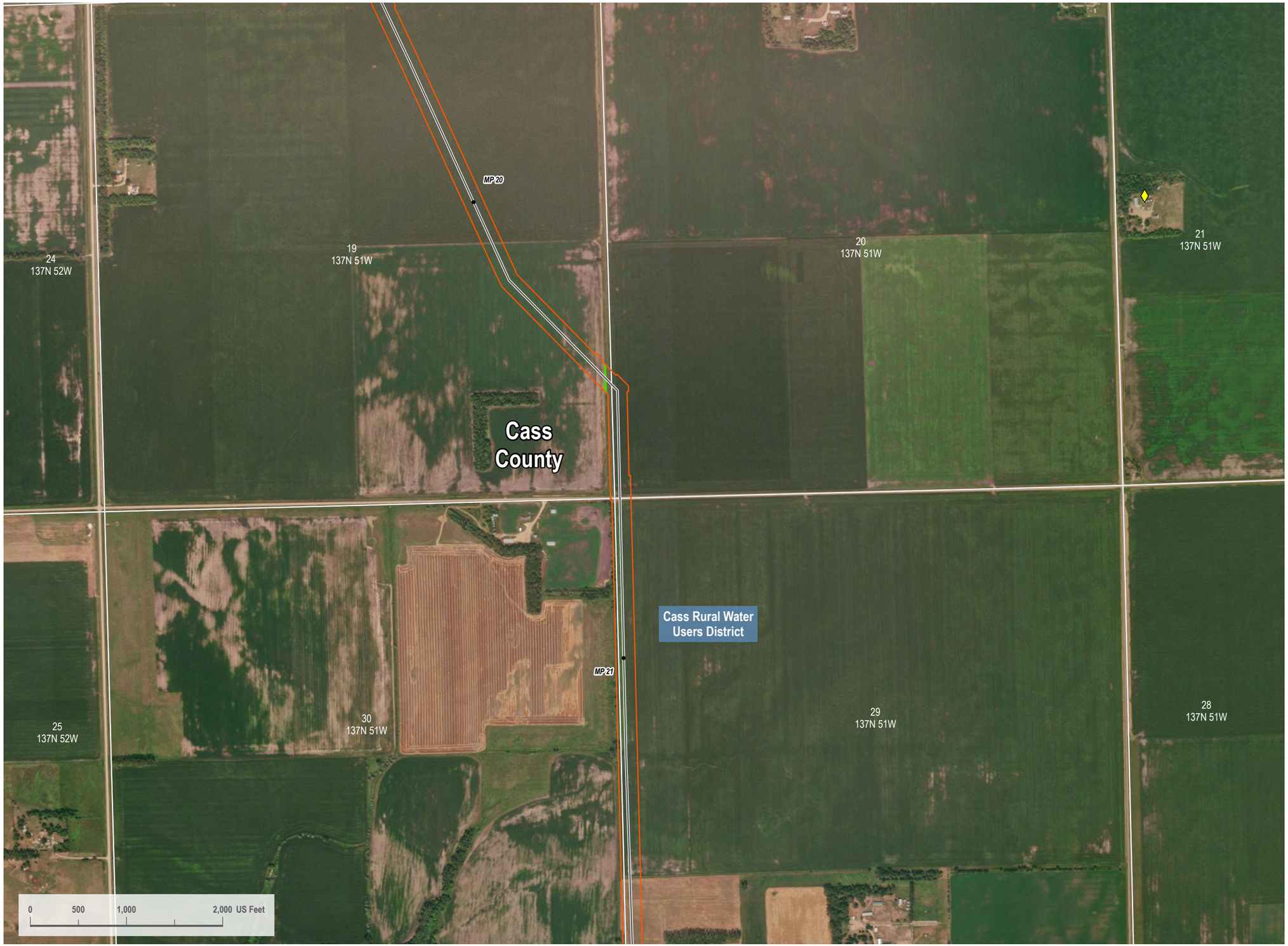
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

N

REVISIONS

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PROJECT INFORMATION

Figure Title:
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Figure Number:
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Scale:
1 : 12,000
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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- PFO Wetland
- 200-foot Siting Corridor

N

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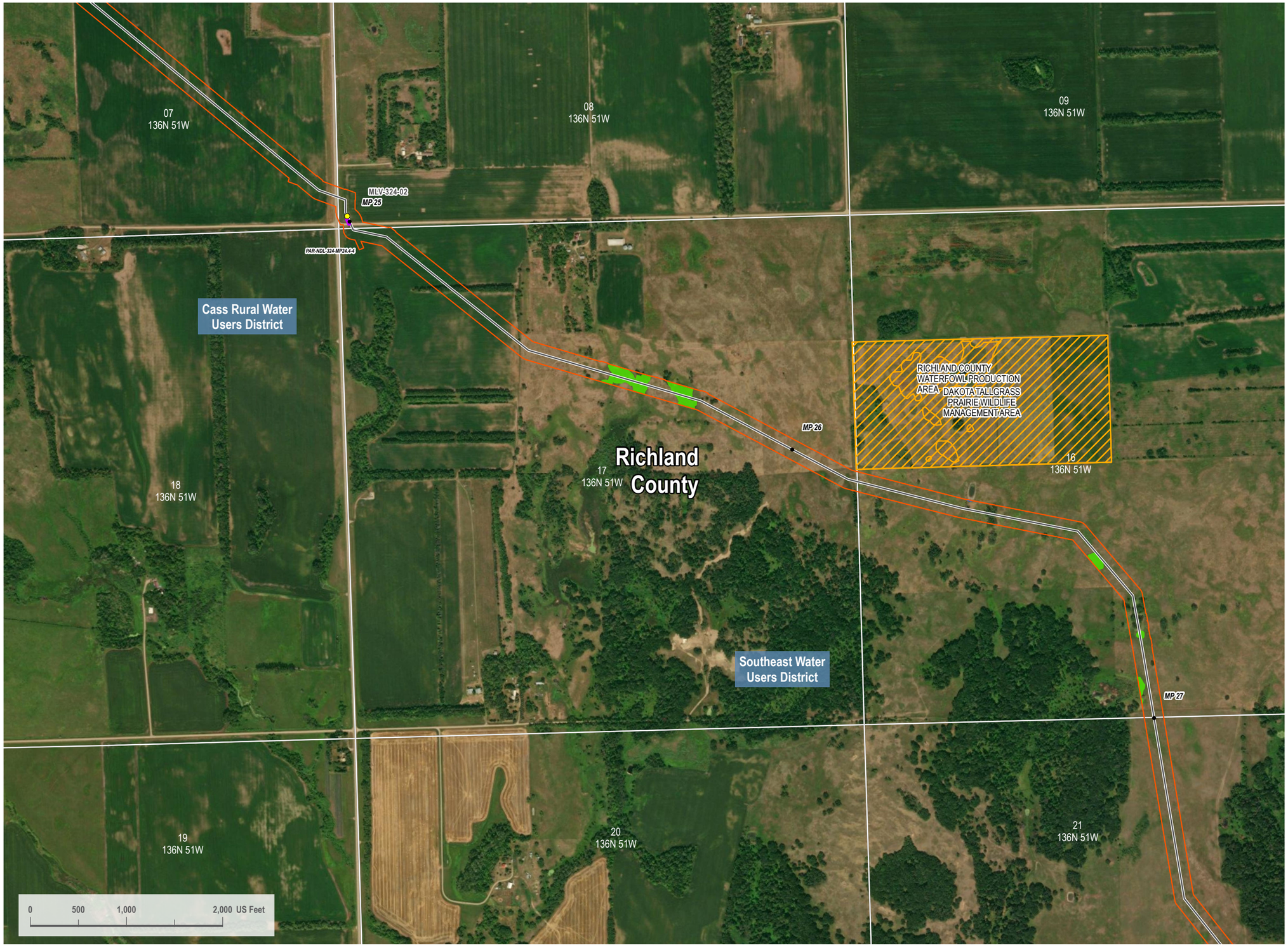

VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- Open Water
- PEM Wetland
- 200-foot Siting Corridor

N

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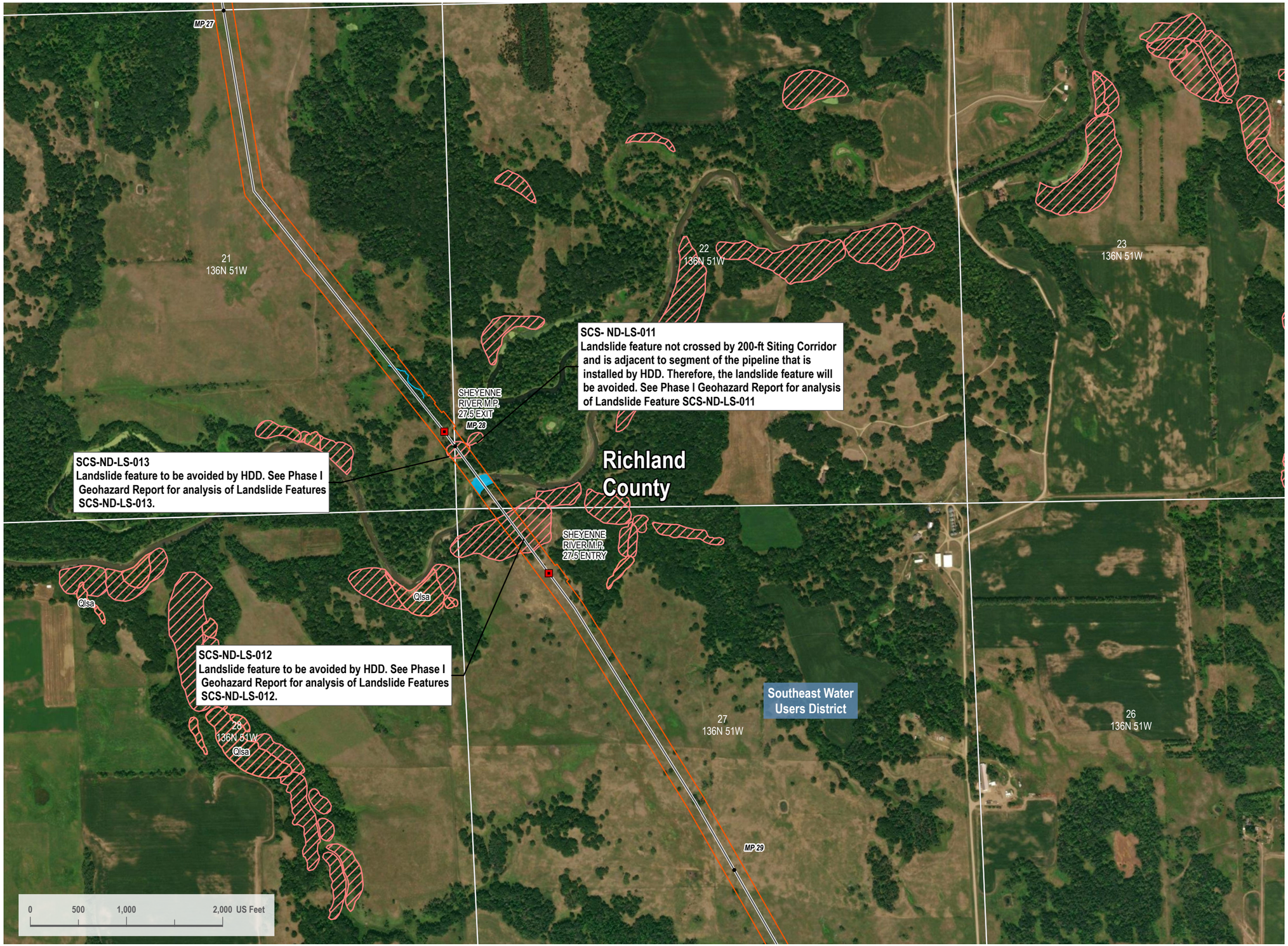

VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Proposed Route
- Section Line
- Landslide Deposit (Avoidance)
- Pump Station
- Avoidance Area
- Stream
- 200-foot Siting Corridor

N

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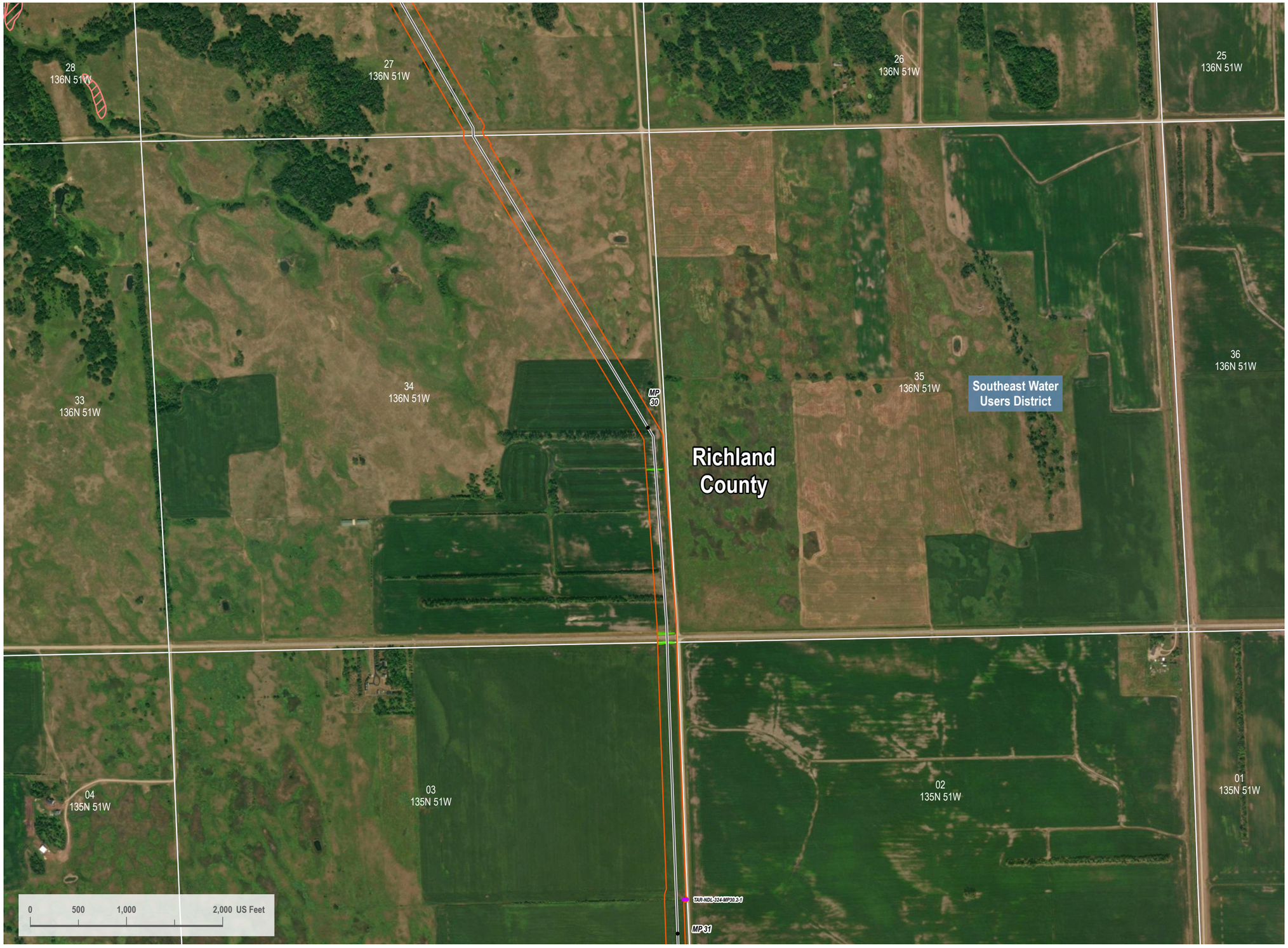

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Landslide Deposit (Avoidance)
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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ND PSC - AERIAL MAP BOOK

15
135N 51W

14
135N 51W

13
135N 51W

MP 34

Richland
County

RICHLAND COUNTY
WATERFOWL
PRODUCTION AREA

22
135N 51W

23
135N
51W

24
135N 51W

Southeast Water
Users District

RICHLAND COUNTY
WATERFOWL
PRODUCTION AREA

MP 35

26
135N
51W

27
135N 51W

25
135N 51W

0 500 1,000 2,000 US Feet

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- Avoidance Area
- PEM Wetland
- 200-foot Siting Corridor

N

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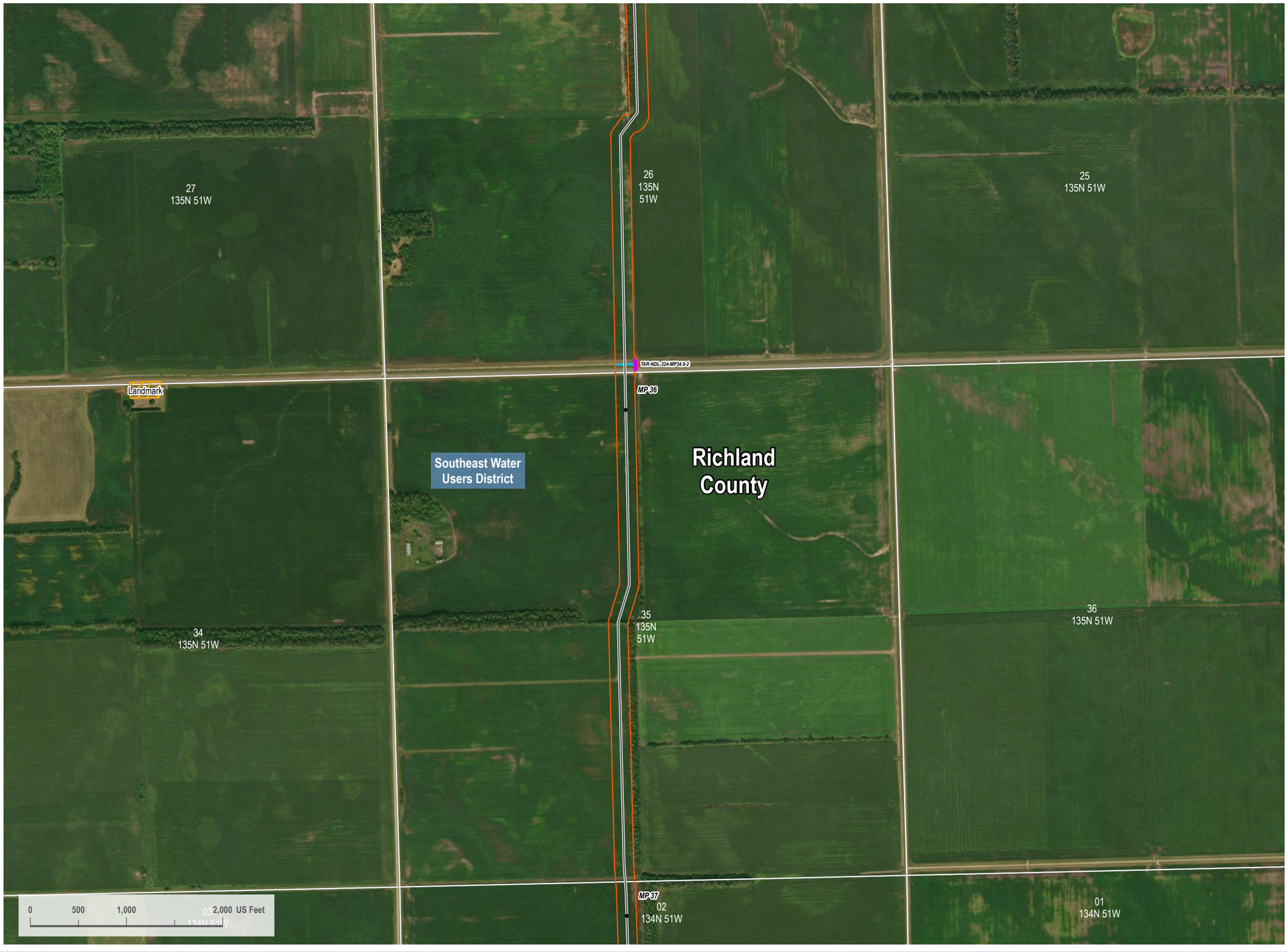

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Access Road
- Pump Station
- Avoidance Area
- Stream
- 200-foot Siting Corridor

N

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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- PSS Wetland
- Stream
- 200-foot Siting Corridor

N

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

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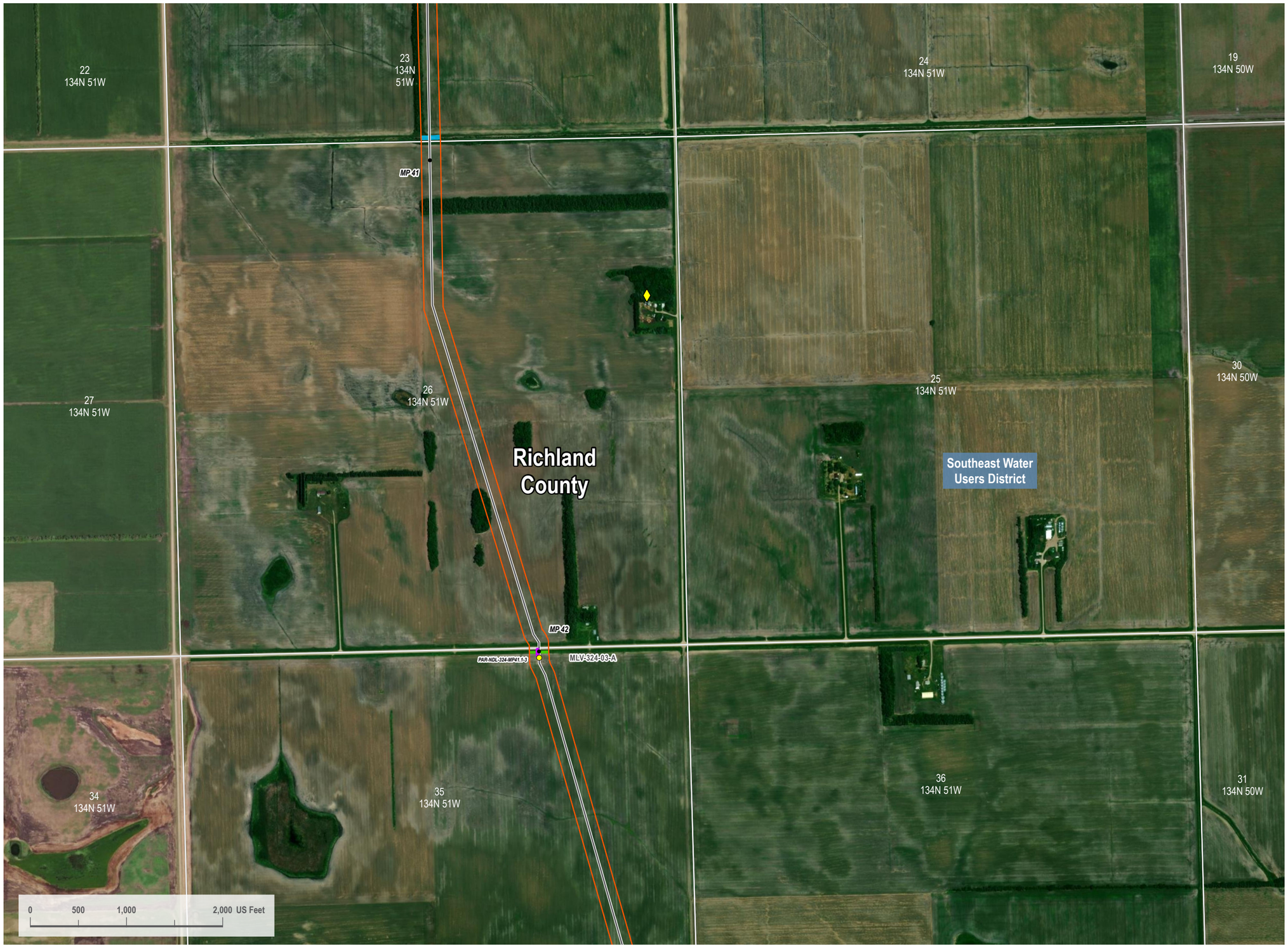
ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

N

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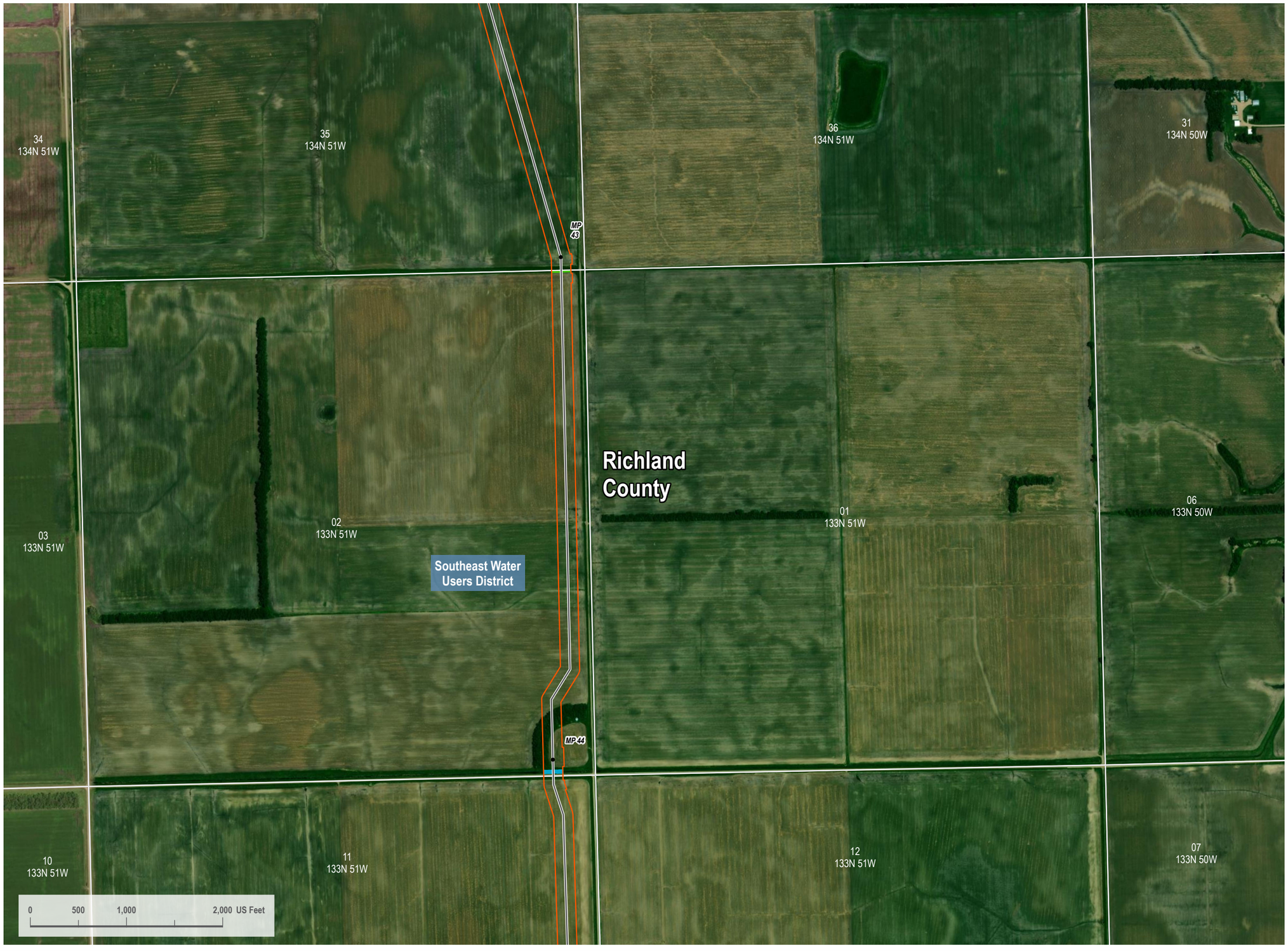

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

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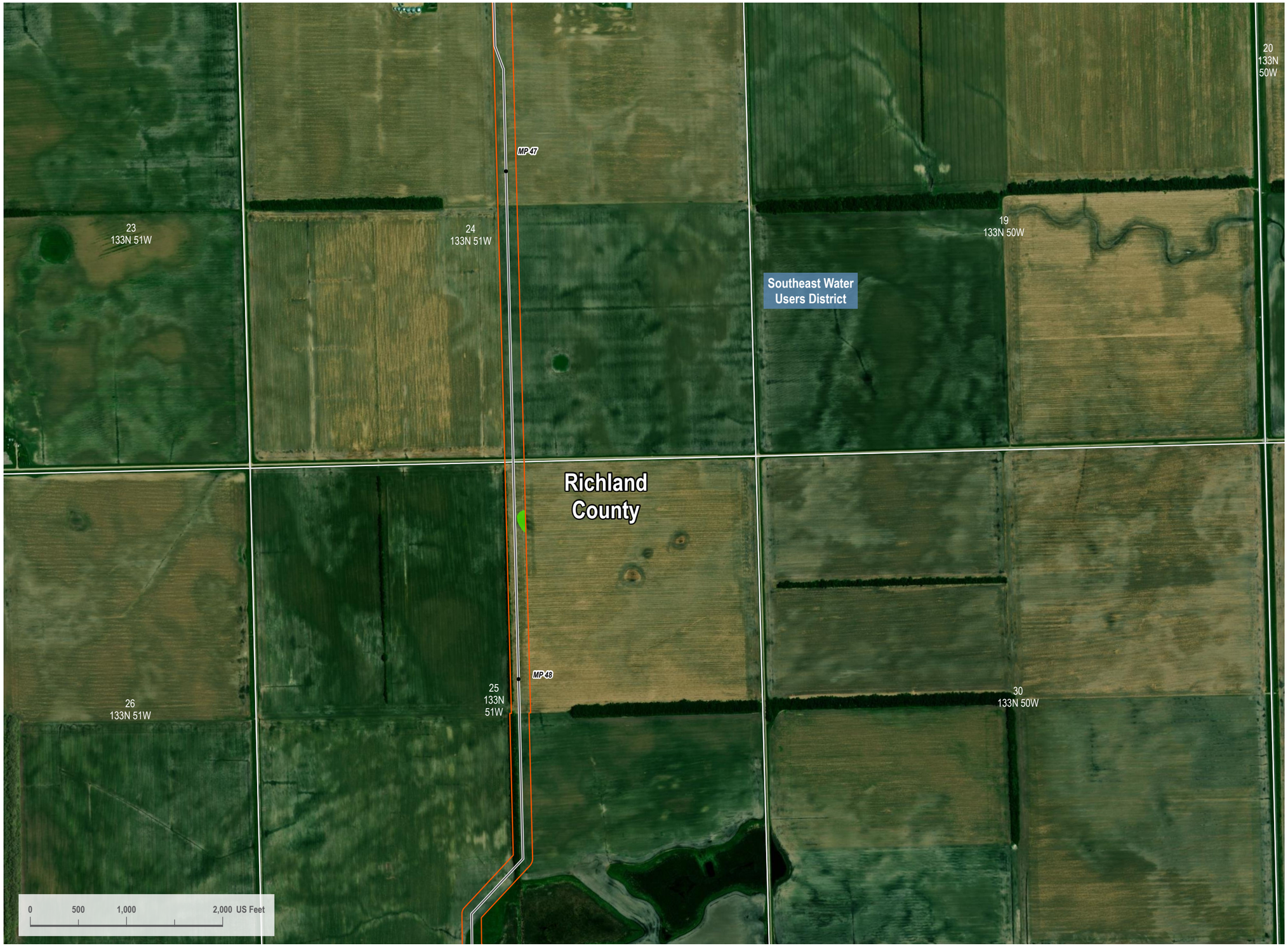

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

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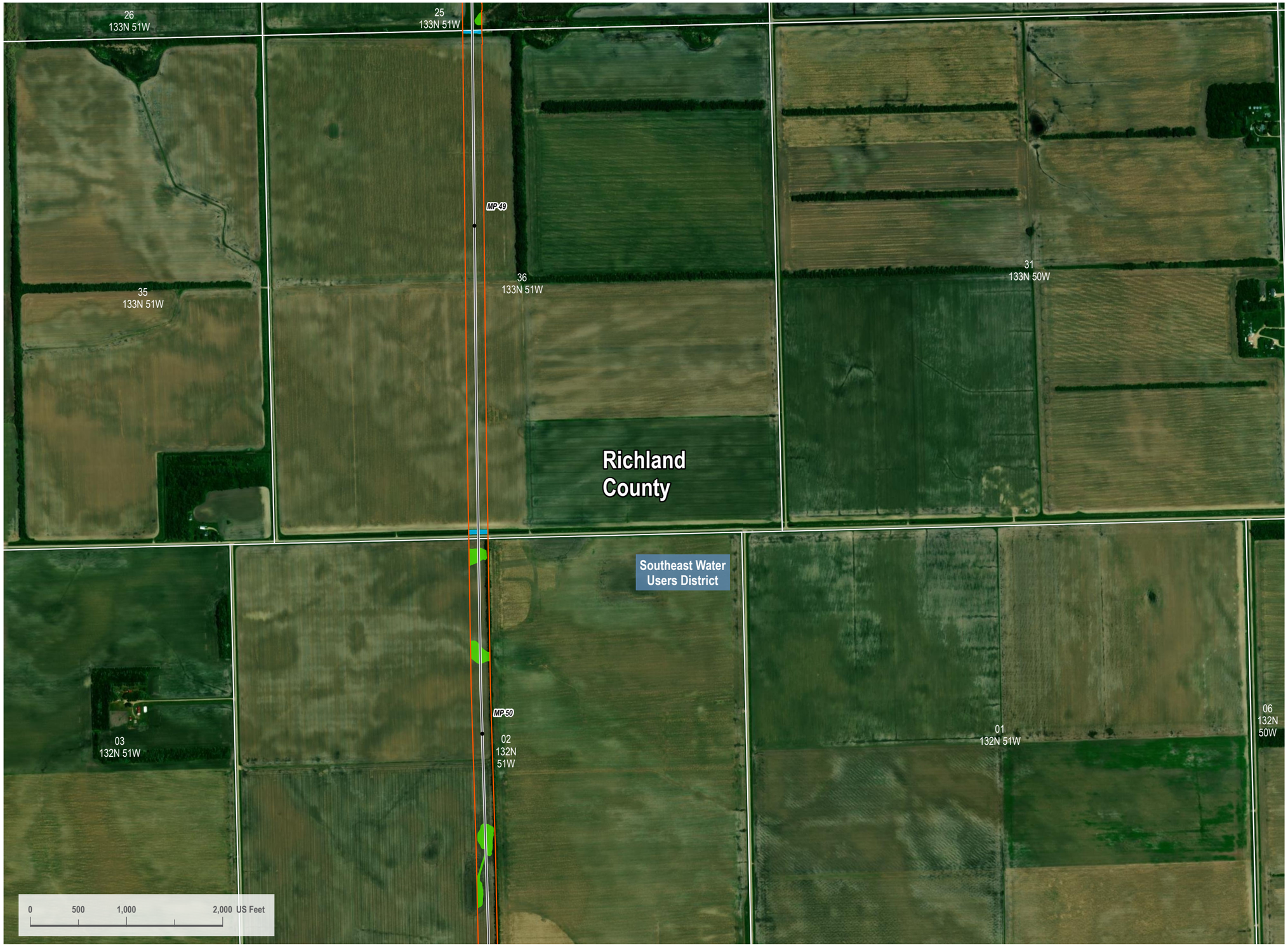

VICINITY MAP



LEGEND

- Centerline Mileposts
- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
- Stream
- 200-foot Siting Corridor

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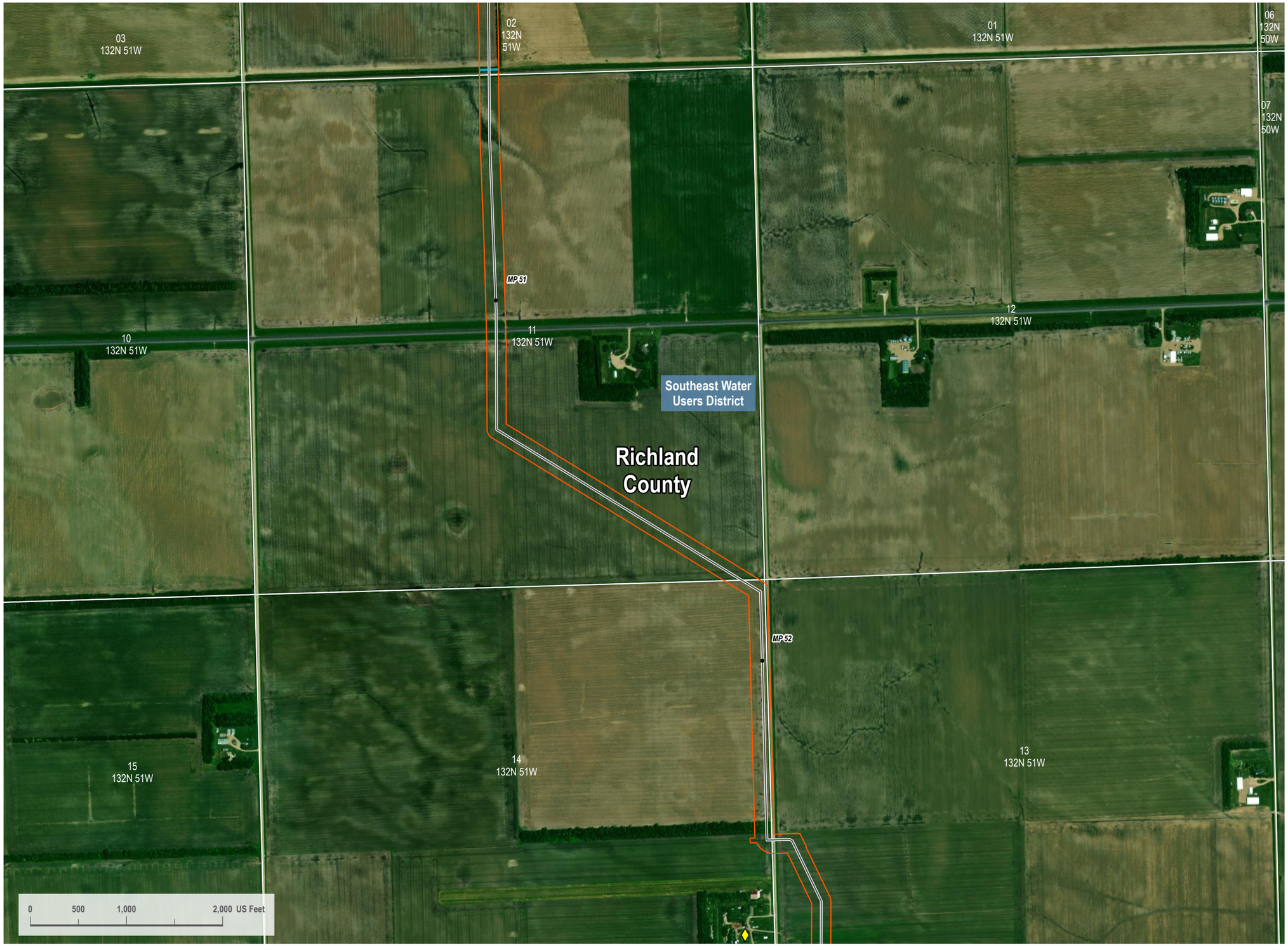

VICINITY MAP



LEGEND

- Centerline Mileposts
- Water Well (Avoidance)
- Proposed Route
- Section Line
- Pump Station
- Stream
- 200-foot Siting Corridor

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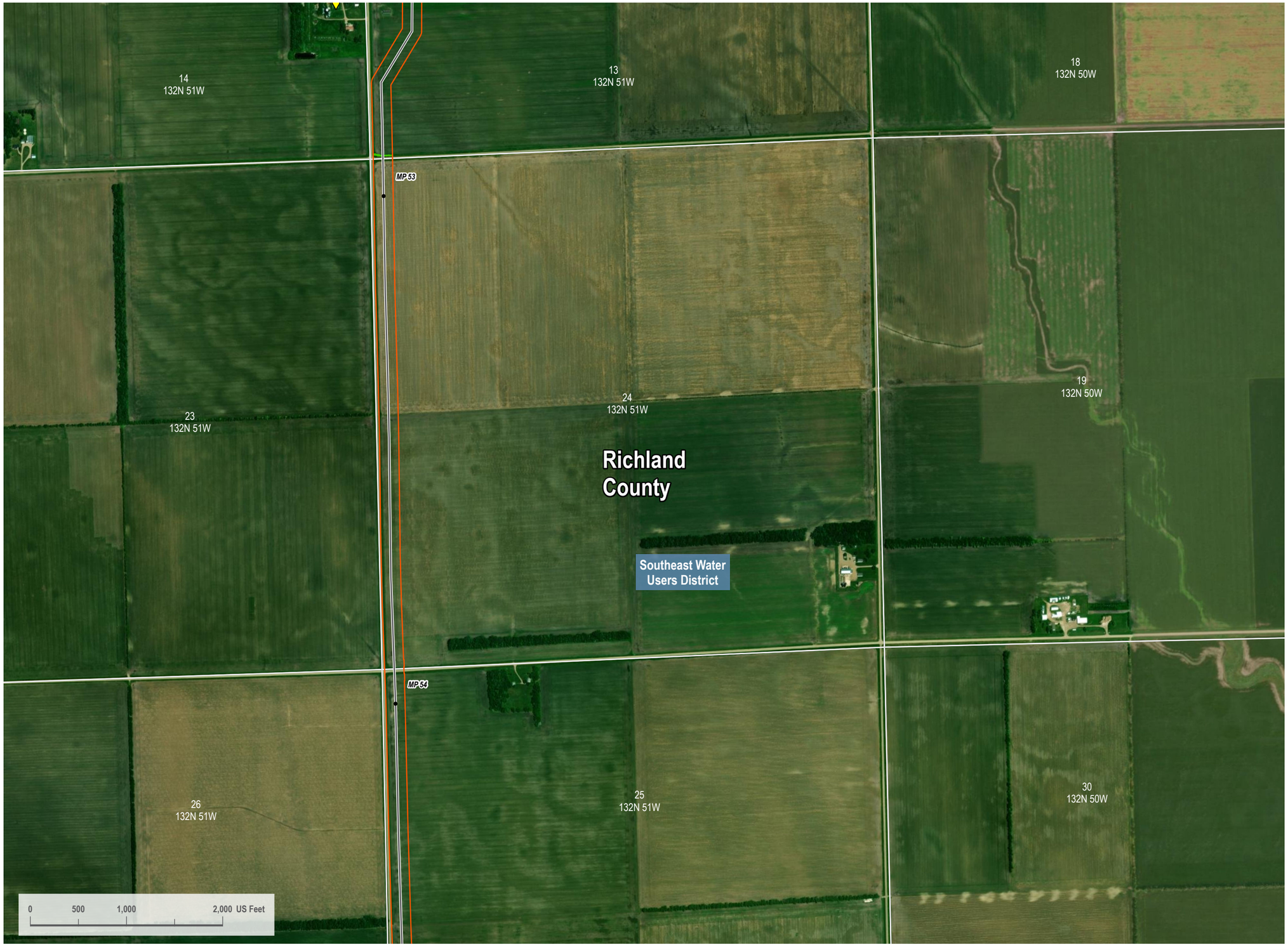

VICINITY MAP



LEGEND

- Centerline Mileposts
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- Proposed Route
- Section Line
- Pump Station
- PEM Wetland
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ND PSC - AERIAL MAP BOOK



VICINITY MAP



LEGEND

- HDD Entry/Exit
- Centerline Mileposts
- Mainline Valve Location
- Proposed Route
- Section Line
- Access Road
- Pump Station
- PEM Wetland
- 200-foot Siting Corridor

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REVISIONS

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PROJECT INFORMATION

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Map Book 1

Scale:	Projection:
1 : 12,000 1 inch equals 1,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N

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2023 North Dakota

Dakota Skipper (*Hesperia dacotae*) Survey Report

Northern Long-Eared Bat (*Myotis septentrionalis*) Habitat Assessment

Project Name:
Summit Carbon Solutions **Midwest Carbon Express Project**

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1 Introduction

Summit Carbon Solutions, LLC (Summit) is preparing for construction of the SCS Midwest Carbon Express (MCE) Project (Project). The Project encompasses a proposed carbon dioxide pipeline in Minnesota, Iowa, Nebraska, South Dakota, and North Dakota and sequestration facilities in North Dakota. This report is specific to North Dakota, species surveys and habitat assessments for other states along the Project are discussed separately.

The species discussed in this report were identified through informal consultation with the U.S. Fish and Wildlife Service (Service) (informal consultation between Summit and the Service, January 25, 2022). Other federally listed species, such as whooping crane (*Grus americana*), may also be present along the route in North Dakota; however, the Service determined that survey for these species was not required since Summit would implement mitigation measures that would avoid impacts to these species. Mitigation measures include actions such as pausing construction when whooping cranes are observed migrating through the Project site or trenchless crossing of the Missouri River which would avoid impacts to piping plover (*Charadrius melodus*).

Species and data discussed in this report include:

- 2023 survey methodologies and results for Dakota skipper (*Hesperia dacotae*), a federally listed threatened species of butterfly in North Dakota; and
- the results of a desktop habitat assessment in North Dakota for northern long-eared bat (NLEB) (*Myotis septentrionalis*).

Western prairie fringed orchid (*Platanthera praeclara*) is also a federally listed species that occurs in North Dakota and that could occur along the Project. However, suitable habitat for this species is highly limited on the route in North Dakota, only one site of potential habitat was identified in North Dakota; this site was surveyed in 2022 and no orchids were located nor was habitat suitable for the species present (SCS 2022). A desktop review of the current North Dakota route did not locate any other potentially suitable habitat; consequently, western prairie fringed orchid is not discussed in this report although results are available in the 2022 survey report (SCS 2022).

Surveys were completed for Dakota skipper in 2022 (SCS 2022a). No Dakota skipper were observed during the survey effort and suitable habitat along the route was extremely limited. The results of 2023 survey are included in this report as well as an assessment of potentially suitable habitat on the current route in North Dakota which could not be surveyed during the appropriate season in 2023.

Surveys for NLEB have not been required on the Project. However, the NLEB was listed as an Endangered species by the Service on November 29, 2022 (87 FR 73488), with a final rule effective date of March 31, 2023 (88 FR 4908). As part of the listing effort, the Service created a *Standing Analysis and Implementation Plan – Northern Long-Eared Bat Assisted Determination Key. Version 1.1* (USFWS 2023b) for identifying suitable habitat and potential consultation or mitigation measures. This report implements those measures for habitat analysis in North Dakota and describes the results of that effort. In particular, this report is intended to assess the likelihood that a wooded area crossed by the proposed Project in North Dakota could provide suitable summer roosting, foraging, and commuting habitat for NLEB. This assessment was completed at both a stand level relative to stand habitat characteristics, as well as at a landscape level to assess the connection among or between habitats.

2 Dakota Skipper 2023 Survey and Results

2.1 Habitat Assessment

The Service has defined two types of Dakota skipper habitat, Type A and Type B (USFWS 2022a). Type A habitat consists of low wet-mesic prairie with little topographic relief that occurs on near-shore glacial lake deposits. Type B habitat occurs in the western extent of the Dakota skipper's range, on rolling terrain over gravelly glacial moraine deposits.

Dakota skippers are obligate residents of undisturbed, high-quality prairie including wet-mesic tallgrass prairie and dry-mesic mixed grass prairie in North Dakota, South Dakota, Minnesota, and Canada (Royer and Marrone 1992); they do not inhabit "non-native grasslands, weedy roadsides, tame hayland, or other habitats that are not remnant prairie, including reconstructed prairie (USFWS 2018; 2021; 2022a). According to the Service:

"High-quality prairie contains a high diversity of native species, including flowering herbaceous species (forbs). Degraded habitat consists of a high abundance of non-native plants, woody vegetation, and a low abundance of native grasses and flowering forbs available during the larval growth period and a low abundance of native flowering forbs available during adult nectaring periods. Therefore, based on the information above, we identify the necessary physical or biological features for the Dakota skipper as nondegraded native tallgrass prairie and native mixed-grass prairie habitat devoid of non-native plant species, or habitat in which non-native plant species and non-native woody vegetation are maintained at levels that allow persistence of native tall grass species and forbs and, therefore, the persistence of the Dakota skipper" (USFWS 2015).

Recently, the Service amended this definition somewhat by noting that within Type A habitat three species are almost always present and blooming during the Dakota skipper's flight period: prairie lily *(Lilium philadelphuses),* bluebell bellflower (*Campanula rotundifolia),* and mountain deathcamas (smooth camas; *Zigadenus elegans)* (USFWS 2022a). In particular, mountain deathcamas is a strong indicator of Dakota skipper Type A habitat in North Dakota (USFWS 2022a). For Type B habitat, the Service notes that this habitat typically supports a high diversity and abundance of native forbs including: purple prairie clover *(Dalea purpurea),* white prairie clover (*D. candida),* yellow sundrops *(Calylophus serrulatus),* lambstongue groundsel *(Senecio integerrimus),* groundplum milkvetch *(Astragalus crassicarpus),* eastern pasqueflower *(Pulsatilla patens),* old man's whiskers (prairie smoke, *Geum triflorum),* western silver aster *(Symphyotrichum sericeum),* dotted blazing star *(Liatris punctata),* tall blazing star (*L. aspera),* meadow zizia (heartleaf golden alexanders; *Zizia aptera),* blanket flower *(Gaillardia sp.),* prairie sagewort *(Artemisia frigida),*and leadplant *(Amorpha canescens)* (USFWS 2022a).

Non-native grasses such as smooth brome (*Bromus inermis*) or Kentucky bluegrass (*Poa pratensis*), as well as non-native forbs such as Canada thistle (*Cirsium arvense*) or leafy spurge (*Euphorbia esula*), often outcompete native prairie vegetation and lead to the deterioration or elimination of Dakota skipper habitat (USFWS 2015). Smooth brome and Kentucky bluegrass in particular pose the greatest threat to native plant composition in Dakota skipper habitat (USFWS 2018). Further, pastures and prairies that are dominated by non-native grasses and forbs, or areas of cultivation, fragment habitat for Dakota skipper which may be incapable of moving more than 0.6 miles between patches of high-quality prairie habitat (USFWS 2014; 2018). The loss of habitat is the greatest factor in the decline of Dakota skipper (USFWS 2014, Davis 2020).

Because Dakota skipper have very specific habitat requirements, identifying suitable habitat for occupancy surveys is a key step in determining where, or if, to conduct surveys (USFWS 2022a). Potential locations of suitable habitat for Dakota skipper within the Project footprint were discussed with the Service in January 2022 (informal consultation January 25, 2022). The Service recommended using modeled Dakota skipper habitat (USFWS 2022b) to help identify landscape-level areas that have historically supported the species, combined with recent records of Dakota skipper presence, aerial imagery, and any field data to determine potentially suitable Dakota skipper habitat. The Service also noted that if occupancy surveys could not be completed due to the short flight window, weather constraints, or lack of access, that determining habitat suitability in lieu of occupancy surveys was appropriate and the best alternative (informal consultation January 25, 2022).

Based on this direction, WESTECH utilized a variety of measures to identify potentially suitable habitat on the Project prior to field investigation, including a review of: a) mapped Dakota skipper habitat (USFWS 2022b); b) Dakota skipper occupancy records (USFWS 2018; Davis 2020); c) aerial imagery; d) vegetation and wetland surveys completed in 2022 as well as spring surveys in 2023; and e) the results of 2022 Dakota skipper survey. Many of these areas were presented in the *Summit Carbon Solutions Midwest Carbon Express 2022 Dakota Skipper Study Plan* (WESTECH 2022) which was provided to the Service for review and comment; no comments were received, and both the North Dakota and South Dakota field offices stated that the study plan was acceptable (pers. comm. Charlene Bessken USFWS South Dakota Ecological Services Field Office to John Beaver WESTECH on April 6, 2022; Heidi Riddle USFWS North Dakota Ecological Services Field Office to John Beaver WESTECH on April 21, 2022).

Surveys were led and supervised by biologists Mr. Jim Reiser and Mr. Jameson Reiser. Mr. Jim Reiser possesses a Service recovery permit (Permit number ES66113B) to conduct and directly supervise Dakota skipper surveys and has over 40 years' experience in *Lepidoptera* survey, including several surveys specifically for Dakota skipper. Mr. Jameson Reiser possesses a Service recovery permit (Permit number ESPER2616267) to conduct and directly supervise Dakota skipper surveys and has over 10 years' experience in *Lepidoptera* survey, including several surveys specifically for Dakota skipper. Additional qualified biologists who worked under the supervision of the permit holders included: Pete Christensen, Dave Hagen, and Lisa Larsen. Messrs. Christensen and Hagen both have previous experience in completing surveys for Dakota skipper, their habitat, and surveys for other rare *Lepidoptera* (e.g., Carson wandering skipper (*Pseudocopaeodes eunus obscurus*) or monarch (*Danaus plexippus*)), as well as extensive experience in prairie vegetation surveys. Ms. Larsen is a plant ecologist with more than 30 years' field survey experience. Mr. Dan Culwell also participated in surveys and operated the sub-meter GPS units to record survey tracks and to ensure surveys occurred within the appropriate survey corridor and on property where access was granted by the landowner. Finally, three sites were evaluated subsequent to the primary survey as these areas were accessible after the Dakota skipper flight period. Ms. Prah and Mr. Lund, two experienced vegetation ecologists, assessed vegetation and habitat at these sites, all of which were dominated by non-native grasses and forbs and are unsuitable for Dakota skipper.

Surveys to identify Dakota skipper habitat, and potentially complete occupancy surveys for the species where suitable habitat is present, were scheduled for the adult flight period which typically occurs in late June/early July when flowering plants are at the optimal phenological stage (USFWS 2018). In 2023, the first documented Dakota skipper emergence was in Manitoba on June 20, 2023 (pers. comm. Laura Burns Conservation Program Managers to biologists June 20, 2023). Project surveys commenced after this date when plants were readily identifiable and prioritized sites for potential, more intensive occupancy surveys as described in the *2022 Dakota Skipper (Hesperia*

dacotae) North Dakota Survey Protocol (USFWS 2022a). As noted above, assessing habitat prior to implementing occupancy surveys is a key criterion of the protocol. To assist in identifying Dakota skipper habitat, all biologists visited Cross Ranch in North Dakota to observe habitat characteristics in an area that supports Dakota skipper. This property is owned by The Nature Conservancy and is approximately 15 miles north of the Project.

WESTECH preliminarily identified 70 areas of potentially suitable habitat along the route in North Dakota and South Dakota, of which 54 areas were surveyed for habitat or occupancy in 2022. Results of the 2022 survey are presented in the *Summit Carbon Solutions 2022 Dakota Skipper (Hesperia dacotae) Survey Report* (SCS 2022a); no Dakota skipper were observed at the sites in 2022 and only two areas of suitable habitat were identified. In 2023, 23 areas of potentially suitable habitat were identified for survey in North Dakota along the route as configured in June 2023; an additional 7 areas of potentially suitable habitat were subsequently identified along the current route. These subsequent areas could not be surveyed in 2023 but are scheduled for survey in 2024. An overview of 2022 and 2023 survey sites in North Dakota is presented in Figure 1.

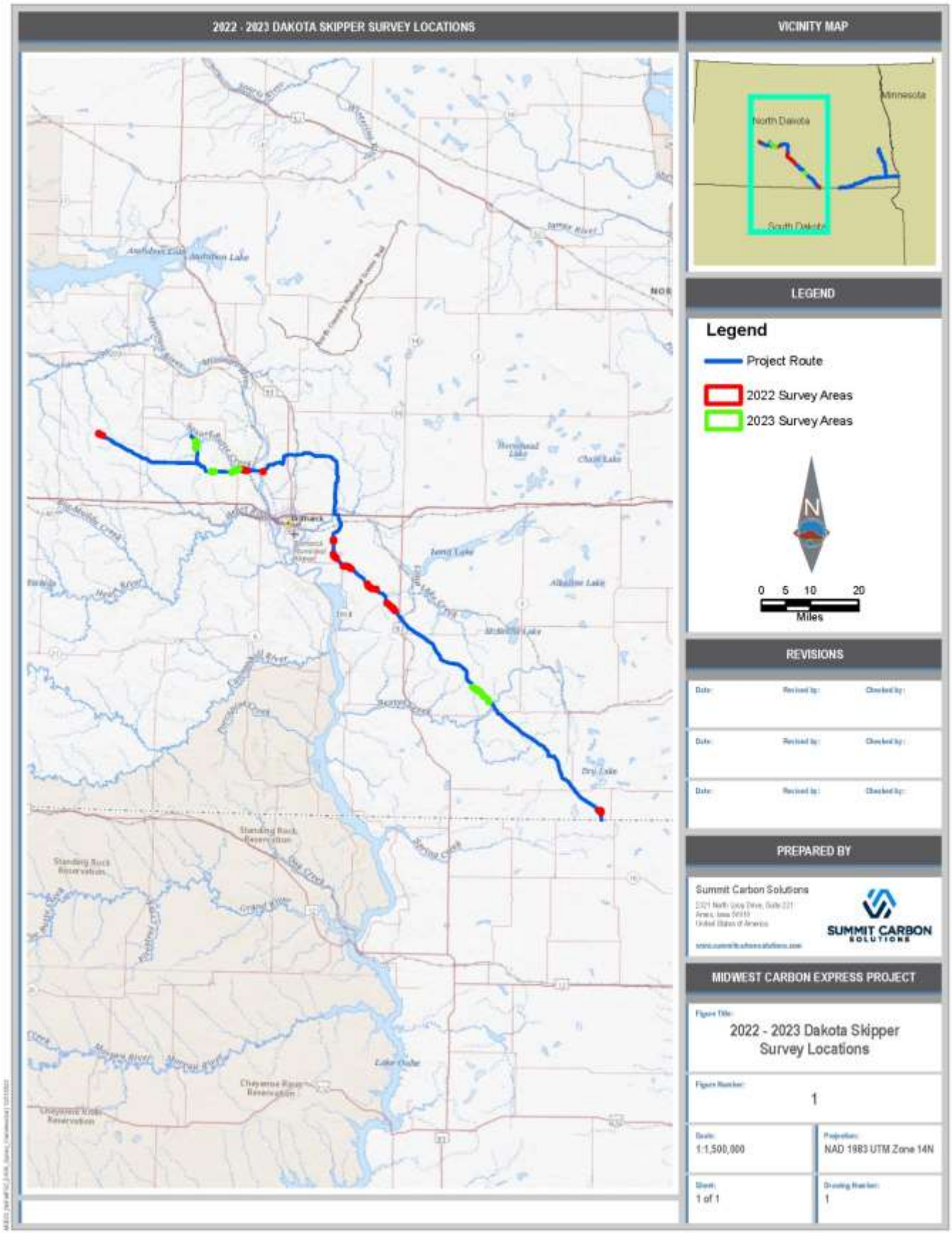
At each survey site in North Dakota where access was allowed, biologists recorded dominant vegetation, recorded all butterfly species observed, photographed the site, and determined if the area was consistent with suitable habitat characteristics for Dakota skipper. In three areas where access was not allowed, biologists could view the habitat from an adjacent parcel(s) and were able to determine the likelihood of whether the site provided suitable habitat. Biologists used several lines of evidence to determine if a site supported suitable habitat for Dakota skipper, including: 1) the description of Dakota skipper habitat provided by the Service in numerous publications (USFWS 2014; 2015; 2018; 2021; 2022a), 2) comparison with the Cross Ranch reference area, and 3) Messrs. Reisers' experience in surveying, and locating, Dakota skipper on previous efforts.

All butterfly species that were observed at a site were identified, if possible, either through capture and safe release, or at a distance. Primary resources for identifying butterflies included a review of specimens previously collected by Mr. Reiser and available on-site, as well as *Kaufman Field Guide to Butterflies of North America* (Kaufman 2006), *National Audubon Society Field Guide to North American Butterflies* (Pyle 1981), *Field Guide to Butterflies of South Dakota* (Marrone 2002), and *Butterflies of North Dakota: An Atlas and Guide* (Royer 1988).

2.2 Dakota Skipper Occupancy Survey

Unlike 2022 where occupancy surveys were completed at two sites in North Dakota with suitable Dakota skipper habitat, no areas of suitable habitat were identified in 2023 and therefore occupancy survey was not completed per the protocols identified in the *2022 Dakota Skipper (Hesperia dacotae) North Dakota Survey Protocol* (USFWS 2022a); however, all butterflies observed at each site were recorded. Further, the two areas with suitable Dakota skipper habitat where occupancy surveys were completed in 2022 are no longer on the Project route in North Dakota. Although these two North Dakota sites were originally identified for repeat survey in 2023, Summit moved the route to avoid these areas of suitable habitat as well as unrelated sensitive resources that were identified on the properties.

Figure 1: Dakota Skipper Survey Locations



2.3 Results

No Dakota skipper were observed at any location in North Dakota. As noted above, most areas were accessible, the three inaccessible areas were visible from an adjacent parcel(s). Appendix B depicts all the North Dakota sites along with each site's habitat suitability and access status, and Appendix C contains field forms for all North Dakota sites where habitat survey was completed and also lists all *Lepidoptera* species that were observed at a site.

In total, 10 sites with access were surveyed during the appropriate survey window. Three sites could not be accessed but were observed from adjacent parcels. Seven additional sites were identified along the current route after the 2023 survey season was completed; these 7 sites are on the reroute around Bismarck.

Approximately 276 acres were surveyed at the 10 sites with access; none of these sites contained suitable habitat for Dakota skipper. Eighty percent of 2023 survey sites were dominated by either smooth brome, Kentucky bluegrass, yellow sweetclover (*Melilotus officianale*), or a combination of the three. Native forbs and grasses were present within some of these sites but not with sufficient diversity or abundance to support Dakota skipper. Only two sites were dominated by native grasses, including sites 111 and 113. Dominant grasses included blue grama (*Bouteloua gracilis*), needle-and-thread, and upland sedges such as threadleaf sedge (*Carex filifolia*). Native perennial forbs were also present at these sites but at relatively low density and either without typical nectar sources, or with only trace amounts of nectar sources. Although these sites were primarily native pastures, Messrs. Reiser nonetheless determined that they were unsuitable for Dakota skipper after walking the areas and identifying butterflies on site. In particular, larval host grasses, such as little bluestem were often lacking in adequate quantities to support Dakota skipper and/or if little bluestem was present at more than a trace cover, there were few nectar sources.

The Cross Ranch in North Dakota is the closest area to the Project with known populations of Dakota skipper and occurs on the west side of the Missouri River approximately 15 miles north of route NDM-106, Milepost 169 near Sanger, North Dakota. To date, none of the surveyed areas on the current route in North Dakota provide suitable habitat for Dakota skipper similar to that on the Cross Ranch. The two areas that had habitat similar to that on the Cross Ranch and that were crossed by the Project in 2022 have now been avoided through re-routes.

An area totaling approximately 48 acres within the Project Environmental Survey Area (ESA) on route NDL-328 near the Minnkota Power Co-op could not be accessed to determine if suitable habitat was present. However, this general area could be viewed from adjacent site 102 where access was allowed and it appeared to be dominated by a similar mix of native and non-native species as occur on site 102. Consequently, the inaccessible area is likely unsuitable for Dakota skipper.

Approximately 197 acres at 7 sites were identified as potentially suitable along the current route after the Dakota skipper survey window had closed. These areas are scheduled for survey in 2024 if access is allowed.

To evaluate the potential for suitable habitat to occur within inaccessible areas, a rating system was developed in 2022 to rank the likelihood of suitable habitat presence and used again in 2023. The following criteria were assessed for suitable habitat on each inaccessible parcel (both the 2023 inaccessible sites and the sites identified after the survey window was closed):

- Suitable habitat present on one side of inaccessible parcel.
- Suitable habitat present on both sides of inaccessible parcel.
- Suitable habitat visible from public road.

- Aerial image indicates potentially suitable habitat in areas that cannot be seen from a public road or adjacent parcel.
- Site is within one mile of potentially suitable habitat (identified either from aerial imagery or survey of proximal parcels).

In each case a value of 1 was assigned for a positive response and a value of 0 was assigned for a response of no data (e.g., a site was not viewed from one side on an adjacent parcel, or a site was not viewed from a public road). In addition, a value of -1 could be assigned to criteria A, B, or C if habitat was determined unsuitable from those vantage points. This method therefore weighted on-the-ground observations from proximal areas more heavily than remote data. For example, if aerial imagery of inaccessible parcels indicated potentially suitable habitat, this score of 1 could be negated or confirmed by an observation from an adjacent parcel or public road. The sum of each criterion was calculated for each site as an indicator of the potential for suitable habitat within the site. An assessment of these scores was given the following ranking:

- Scores ≥ 3: The site likely contains areas of suitable habitat.
- Scores 1 – 2: The site potentially contains areas of suitable habitat.
- Scores <1: The site likely is unsuitable habitat.

Table 1 summarizes Dakota skipper habitat along the Project within North Dakota by county.

Table 1: Dakota skipper suitable habitat, unsuitable habitat, and likelihood of suitable habitat in North Dakota (2023).

County	Suitable Habitat (Acres)	Unsuitable Habitat (Acres)	Likely Unsuitable (Acres)	Potentially Suitable (Acres)	Total Acres
BURLEIGH	0.0	0.0	0.0	197.0	197.0
EMMONS	0.0	71.2	0.0	0.0	71.2
LOGAN	0.0	5.6	0.0	0.0	5.6
MORTON	0.0	138.6	0.0	0.0	138.6
OLIVER	0.0	60.8	48.5	0.0	109.3
TOTAL NORTH DAKOTA	**0.0**	**276.3**	**48.5**	**197.0**	**521.9**

2.4 Summary

Summit has completed survey for Dakota skipper habitat and individuals along the Project in North Dakota in 2022 and 2023. No Dakota skipper were observed in either year. The only known suitable habitat for the species along the route was identified and surveyed in 2022, Project reroutes have now avoided that habitat. No suitable habitat was identified along the route in 2023. Three areas could not be accessed during the survey window but was viewed from an adjacent parcel; based on that assessment, habitat on the inaccessible site is likely unsuitable. Seven areas were identified along the current route after the Dakota skipper survey window had passed. These areas have potentially suitable habitat based on a desktop assessment of aerial imagery although it is unknown if suitable habitat is actually present. Both the inaccessible site and the newly identified sites will be surveyed in 2024 to determine if suitable habitat for Dakota skippers is present. If suitable habitat is present, occupancy surveys will be completed consistent with the Service's protocol (USFWS 2022a).

3 Northern Long-Eared Bat Habitat Assessment

WESTECH mapped all wooded areas within an ESA centered on the Project centerline as all of the states that would be crossed by the Project are within the overall range of NLEB. Wooded areas were identified from high-resolution aerial imagery and were defined as any tree, or collection of trees, that were visible within the ESA. This level of mapping resulted in higher-resolution habitat than that obtained from remote sensing data. The ESA size varied depending on the Project workspace but included at least 150-feet either side of the centerline, and often included an area 250-feet either side of the centerline. A total of 239 wooded areas were mapped within the ESA in North Dakota and each was then assessed relative to several habitat components that define the suitability of each wooded area as habitat for NLEB. The general location of these wooded areas is displayed in Figure 2.

The term "wooded area" is not clearly defined by the Service and its use varies in peer-reviewed literature and Service documents. The Service notes that suitable summer habitat for NLEB includes a wide variety of "forested/wooded habitats" where they roost, forage and commute as well as some adjacent, interspersed non-forested habitats such as wetlands, pastures, and agricultural areas (USFWS 2023a). The Service also states, in their 2016 determination that Critical Habitat was not warranted, and that "the species' specific needs and preferences for these habitat elements are relatively flexible, plentiful, and widely distributed" (87 FR 24710).

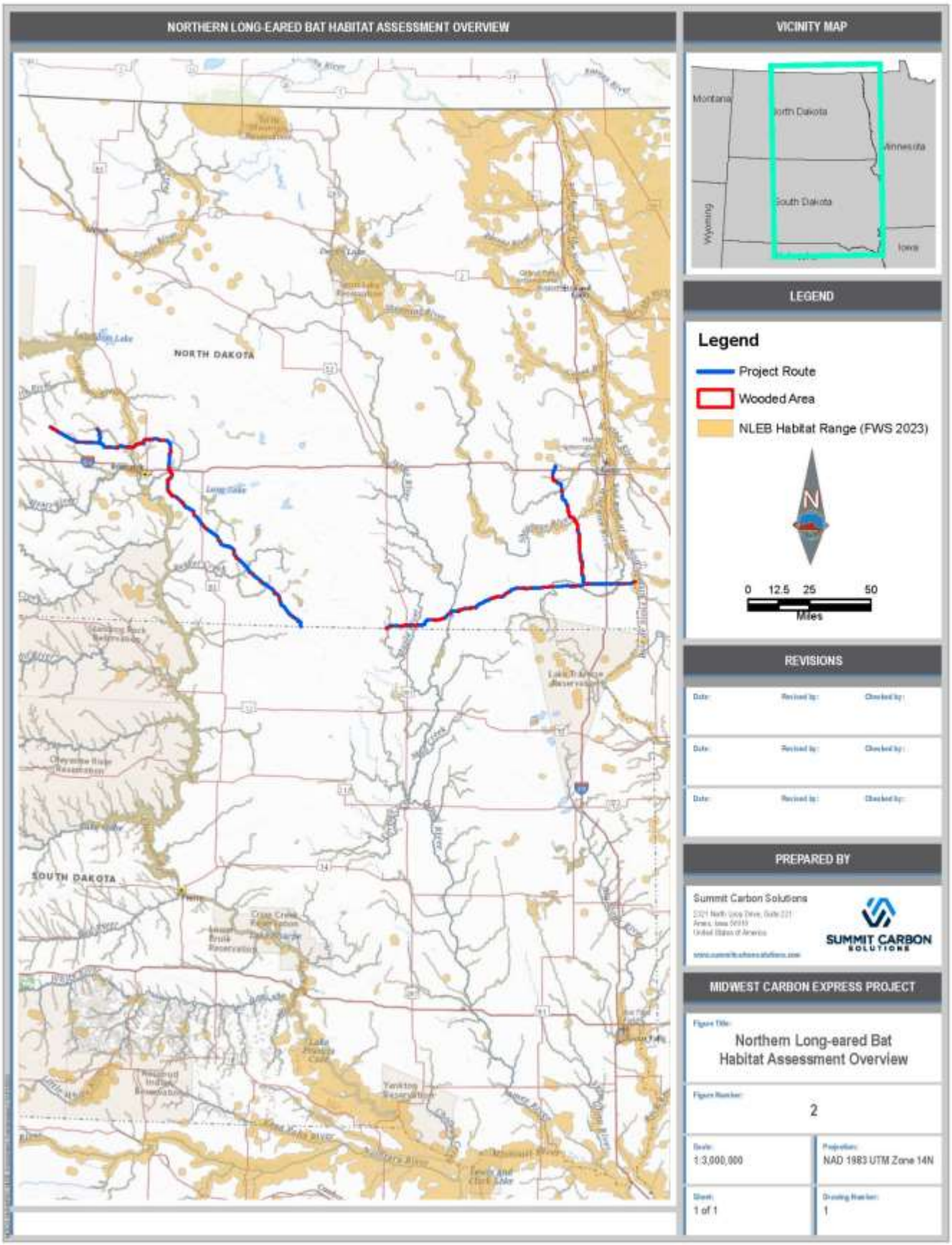
Although NLEB are flexible in their summer habitat needs, the Service has recently provided guidance on a definition of potentially suitable habitat for NLEB (USFWS 2023b). This guidance includes a broad description of components in suitable summer habitat (e.g., trees > 3 inches diameter at breast height (dbh), typically intact mixed-type forests with small gaps, etc.). The Service also cites three examples of unsuitable habitat, including:

1. Individual trees that are greater than 1,000 feet from forested/wooded areas;
2. Trees found in highly developed urban areas (e.g., street trees, downtown areas); and
3. A pure stand of less than 3-inch dbh trees that are not mixed with larger trees.

Much of the habitat guidance for NLEB is based on guidance the Service previously provided for Indiana bat (*Myotis sodalis*). In particular, the guidance regarding a 1,000-foot distance to forested/wooded areas is based on guidance for Indiana bat which clarifies the likelihood that Indiana bat, and by inference NLEB, would be present in summer foraging and roosting habitat (USFWS 2011). This guidance includes two additional rules for determining likelihood of use based on habitat connectivity or isolation, and states:

> "In summary, if both of the following conditions are true, Indiana bat presence [and by inference NLEB] is unlikely within and near the project area during the summer period…
>
> 1. No suitable foraging or roosting habitat is in the project area or within 1,000 feet of the project area boundary.
> 2. Commuting habitat, if occurs in or within 1,000 feet of the project area boundary, is, more than 1,000 ft, or if connected more than 2.5 miles, from suitable roosting or foraging habitat." (USFWS 2011).

Figure 2: Northern Long-eared Bat Habitat Assessment Overview



Although Indiana bats were documented crossing open areas greater than 3,000 feet in an agricultural landscape (Kniowski 2011), that particular study occurred in a landscape with numerous, connected forested fence rows and interspersed woodlots adjacent to a large riparian system; consequently, the degree of openness in that study was lower than in most agricultural settings on the western perimeter of NLEB range. In contrast, most other research indicates that Indiana bats predominately forage, roost, and travel within wooded habitats or along their edges (USFWS 2011) even when following wooded habitats, rather than crossing large open areas, results in greater flight distance (Murray and Kurta 2004). As a result, the Service states that, "NLEBs stay close to forest and woods – only those non-forested areas within 1000' of forest or woods are presumed suitable for the species" (USFWS 2023c).

Based on these descriptions and guidance, wooded areas crossed by the Project ESA were classified relative to their degree of isolation or connectivity to other wooded areas, as well as the individual stand characteristics. WESTECH reviewed literature on NLEB habitat and used it to identify relevant habitat characteristics that could be evaluated with aerial imagery and field survey habitat notes and data (e.g., forested, cultivated, pasture, etc.). WESTECH also used the Service's recently published and updated range map for NLEB (USFWS 2023c) which is more specific than the previous version. These data were overlain with 2.5 mile and 1,000-foot buffers surrounding wooded areas within the Project ESA consistent with the Service's guidance for determining habitat connectivity and suitability. Each wooded area was then evaluated to determine if it was within, and connected to, the mapped NLEB range at 2.5 miles and 1,000 feet or to unmapped habitat that appeared suitable for foraging and roosting. The Service's updated NLEB range map is shown on Figure 2.

Numerous scientific articles on NLEB indicate that the species prefers intact, closed-canopy forests for foraging, although individuals will forage along the forest edge (Patriquin and Barclay 2003, Jung et al. 1999, Barbour and Davis 1969). The NLEB rarely flies through non-forested areas, particularly large non-forested areas such as agricultural fields (White et al. 2017, Henderson and Broders 2008, Hogberg et al. 2002). Foraging areas typically vary between 46 hectare (ha) and 65 ha (114 acre (ac) and 160 ac) within intact forests (Broders et al. 2006, Owen et al. 2003), but may be as small as 6 ha (14 ac) in fragmented forest and agricultural landscapes (Henderson and Broders 2008). Lausen (2009) suggests that since the NLEB rarely fly in open areas it is not surprising that home ranges are smaller in areas where forest patch size is smaller.

Roosting occurs primarily within intact, closed-canopy, deciduous forests (USFWS 2022c, Broders and Forbes 2004, Menzel et al. 2002, Owen et al. 2002, Foster and Kurta 1999). The NLEB rarely ventures more than a few meters from forested habitat (White et al. 2017), although some individuals may commute between roosting and foraging sites through open landscapes. As noted, the Service has identified 1,000 feet as the approximate boundary beyond which NLEB are unlikely to commute between disconnected wooded areas.

Roost tree species and diameter are highly variable (USFWS 2022c, Lacki and Schwierjohann 2001, Foster and Kurta 1999) although snag density, tree density, and presence of cavities or loose bark do appear to be important roosting features (Menzel et al. 2002, Owen et al. 2002, 2003, Foster and Kurta 1999). In a forest–agricultural landscape, females may exclusively use deciduous species (Foster and Kurta 1999) rather than coniferous species (e.g., eastern red cedar (*Juniperus virginiana*)) such as often occur in planted shelterbelts. Proximity to water has also been identified as an important feature for roosting and foraging (USFWS 2022c, Henderson and Broders 2008, Carter and Feldhamer 2005, Sasse and Perkins 1996). Commuting habitat typically consists of narrow lines of trees,

such as occur in shelterbelts or fencerows, narrow wooded drainages, and wooded tracts that are connected to roosting and foraging habitat (USFWS 2011).

3.1 Northern Long-Eared Bat Habitat Classification

Based on the literature noted above, aerial imagery, and Project vegetation data, WESTECH used the following criteria to assess the quality of NLEB habitat within the ESA, as well as the suitability based on the Service's 2023 guidance (USFWS 2023b).

1. A wooded area is within the Project ESA and is within NLEB distribution as defined by the Service's *Species Status Assessment Report for the Northern long-eared Bat (Myotis septentrionalis)* (USFWS 2022c); the entire Project ESA is within the Midwest Representation Unit of the NLEB's distribution based on this guidance. Note however, that in North Dakota most potentially suitable, or occupied, habitat occurs along primary riparian drainages and associated wooded habitat (USFWS 2023b, Figure 1; USFWS 2022c, Figure 3.3).

2. Wooded areas that met any of the following three criterion were classified as Unsuitable Habitat:

   - Individual trees that are greater than 1,000 feet from forested/wooded areas;
   - Trees found in highly developed urban areas (e.g., street trees, downtown areas); and
   - A pure stand of less than 3-inch dbh trees that are not mixed with larger trees (USFWS 2023b).

3. If wooded areas did not qualify as Unsuitable, they were then classified according to one or more of the following four descriptive habitat components:

   a. Stand Size: The wooded area is part of a stand that is at least 6 ha (14 ac) (Henderson and Broders 2008). Note that this is the smaller stand size found to support NLEB based on a study of fragmented forested and agricultural landscapes and is therefore a conservative estimate of stand size relative to NLEB use.

   b. Tree Canopy Cover: The wooded area contains a relatively closed canopy (e.g., at least 50 percent canopy closure) (Sasse and Pekins 1996). Note that this is a minimum; the average forest canopy cover in this study was 78 percent. Given that the Project occurs in a more fragmented agricultural landscape than where these surveys were conducted, and that the Project is in the Great Plains and Midwest where tree density is often lower, an estimated value of 50 percent canopy closure was used as a conservative indicator of closed canopy.

   c. Tree Structure: Snags and trees with exfoliating bark, deeply furrowed bark, cavities, and crevices may be present (Lacki and Schwierjohann 2001, Carter and Feldhamer 2005, Lacki et al. 2009, Park 2010). Since there are no Project data on tree size or condition, the presence of these features was classified relative to estimated woodland structure based on aerial imagery. Stands classified as Large or Moderate Tree Structure are assumed to provide these features, while stands classified as Small Tree Structure are assumed to have a low likelihood of providing these features.

d. Proximity to Water: The wooded area is proximal to a waterbody, stream, river, pond, or reservoir (Sasse and Perkins 1996, Carter and Feldhamer 2005, Henderson and Broders 2008). One study found that during the driest months water was within 750 m (492 ft) of a roost (Carter and Feldhamer 2005). Since water may or may not be present in a drainage or pond depending on precipitation it was assumed that if a wooded area occurred within 750 m of a drainage, stream, or river, or if a pond (even dry) was visible on aerial imagery within 750 m of the wooded area, then the site was proximal to water.

These habitat components were evaluated for each wooded area to estimate habitat quality for NLEB (Table 2). Note that Table 2 describes the estimated quality of habitat that a wooded area provides for NLEB, not the likelihood of actual NLEB presence.

Table 2. Northern Long-Eared Bat Habitat Quality Description

Habitat Components	Habitat Quality	Habitat Description and Example
Wooded area > 6 ha (14 ac). > 50% tree cover Large or mixed structure trees, and Water within 750 m (492 ft).	High	Larger, wooded areas typically along streams and rivers, or larger wooded areas connected along upland draws and valleys; e.g., the Platte River riparian corridor.
Three of the four habitat components noted above.	Moderate	Variably sized wooded areas typically with closed canopy, mixed or large tree structure, and often proximal to water; e.g., scattered woodlands in hilly pastures or cultivated areas.
Two of the four habitat components noted above.	Low	Small, wooded areas of variable canopy cover that occur as narrow stands or small pockets of trees, occasionally near water; e.g., larger shelterbelts.
Zero or one of the four habitat components noted above.	Very Low	Very small, wooded areas or small groups of individual trees not near water; e.g., narrow shelterbelts or woodlots around farm houses in a highly fragmented, cultivated landscape.

3.2 Northern Long-Eared Bat Habitat Connection

Subsequent to this assessment of habitat quality, each wooded area was evaluated relative to its connection to, or isolation from, other wooded areas and the Service's mapped NLEB range. This assessment of habitat connection was completed according to the Service's guidance, and its supporting literature, for determining whether potentially suitable habitat was isolated and therefore unlikely to actually be available (i.e., suitable) for NLEB. Isolated habitat was identified according to the Service's guidance (USFWS 2023a) as referenced for Indiana bat and utilized for NLEB as follows:

1. "No suitable foraging or roosting habitat is in the project area or within 1,000 feet of the project area boundary.
2. Commuting habitat, if occurs in or within 1,000 feet of the project area boundary, is more than 1,000 ft, or if connected more than 2.5 miles, from suitable roosting or foraging habitat". (USFWS 2011).

Wooded areas that do not meet these criteria and are not isolated were classified as Suitable Habitat.

In a fragmented agricultural landscape such as occurs throughout most of the Project area, almost all of the suitable, and/or occupied habitat occurs within approximately 1,000 feet of wooded riparian or forested corridors and associated tributaries and woodlots (USFWS 2023b, USFWS 2022c, NDGF 2015, SDGF 2023, MDNR 2023, Kaminski et al. 2020). At a landscape scale relative to NLEB habitat, the numerous small, wooded areas around farm residences and shelterbelts on the Project are often not connected to more contiguous wooded areas that could provide suitable foraging or roosting habitat consistent with the two criteria noted above. Consequently, small, wooded areas that occur in monoculture agricultural landscapes are often isolated at a landscape level from suitable roosting and foraging habitat even if some wooded areas are within 1,000 feet of each other or connected by commuting habitat.

In order to evaluate these criteria in the agricultural landscape along the Project, these small, wooded areas and shelterbelts were examined according to: 1) their connection with other wooded areas within 1,000 feet or the Service's mapped NLEB range (USFWS 2023d), and 2) if those proximal wooded areas were ultimately within 1,000 feet of suitable roosting or foraging habitat or the Service's mapped NLEB range (USFWS 2023d). This process was continued out to 2.5 miles from the Project footprint per the Service's guidance (USFWS 2023b, USFWS 2011).

Frequently, small, wooded areas and shelterbelts within the Project ESA are not connected to suitable roosting and foraging habitat because they are separated by more than 1,000 ft, or if they are connected to small, fragmented wooded areas within 1,000 ft, those proximal areas are then isolated by more than 1,000 feet to suitable habitat. On many portions of the route, particularly in North Dakota, wooded areas exist as scattered stands around farm residences that may be within 1,000 feet of another farm tree stand or shelterbelt, but that are ultimately unconnected to suitable roosting and foraging habitat within 2.5 miles. In several cases, there is no suitable roosting and foraging habitat within 2.5 miles of the Project wooded area, a result that is also confirmed by the Service's updated NLEB range map which shows large areas that are outside the species' range due to cultivation and a lack of trees. These types of wooded areas were classified as Isolated Habitat indicating that while stand size, canopy cover, tree structure, and/or proximity to water might satisfy physical habitat requirements for NLEB, these sites are too removed from suitable roosting and foraging habitat, often at a landscape level, to qualify as Suitable Habitat themselves.

3.3 Results

Appendix D lists each of the wooded areas within the Project ESA in North Dakota and classifies each according to the four habitat components noted above, whether commuting habitat is within 1,000 feet of a wooded area on the Project, whether suitable roosting and foraging habitat is within 2.5 miles of a wooded area on the Project, and whether those habitats are connected. Each wooded area is then classified as either Suitable Habitat, Unsuitable Habitat, or Isolated Habitat. Appendix E portrays each of these wooded areas on aerial imagery coded according to their assigned habitat components and suitability.

Overall, most wooded areas within the ESA in North Dakota occur as small, isolated shelterbelts or woodlots surrounding farm residences, there are few areas of Suitable habitat on the Project in North Dakota. Table 3 summarizes the approximate acreage of wooded areas by suitability and habitat quality within the ESA in each county.

Table 3. Northern Long-Eared Bat Habitat Assessment for North Dakota: Environmental Study Area

State	Habitat Quality	Habitat Type			Grand Total
		Suitable	Unsuitable	Isolated	
North Dakota	High	31.2	0.0	0.0	31.2
	Moderate	16.9	0.3	19.7	36.9
	Low	45.4	17.0	58.9	121.3
	Very Low	4.7	27.3	38.1	70.2
Grand Total		**98.1**	**44.5**	**116.8**	**259.4**

The general lack of NLEB habitat along the Project is not surprising given its location within a highly fragmented agricultural landscape. Some researchers speculate that NLEB is a recent occupant of midwestern plains states due to the relatively recent expansion of forests into areas that were formerly tallgrass prairie but that have become dominated by trees with the exclusion of fire in areas that cannot be farmed (White et al. 2017). In this type of landscape, wooded areas adjacent to cropland and pastures more closely resemble a "shredded habitat" rather than a series of isolated, blocky habitat islands as occur where extensive forests have been removed by logging (White et al. 2017). As a result, NLEB use is primarily restricted to those wooded areas that occur as larger habitat aligned on valleys, creeks, and rivers, and proximal wooded areas (typically within 1,000 feet) that could serve as roost sites (USFWS 2023b, USWFS 2022c, White et al. 2017, Henderson and Broders 2008, Henderson et al. 2008). The Action Area depicted in the Service's Determination Key (USFWS 2023b), the distribution of documented acoustic calls, captures, and hibernacula (USFWS 2022c), and the Service's revised NLEB range map (USFWS 2023d) confirm that NLEB are rarely observed outside of contiguous wooded habitat, or wooded areas that are connected with commuting habitat within 1,000 feet of those areas. Most of this type of habitat on the Project in North Dakota occurs along the Sheyenne River or the Missouri River.

While Table 3 summarizes habitat suitability and quality within the Project ESA in North Dakota. Table 4 summarizes estimated impacts to habitat within the Project construction footprint in North Dakota. Permanent impacts are those associated with the permanent right-of-way easement, these areas are periodically cleared on a maintenance schedule to allow for aerial pipeline inspection consistent with federal safety inspection requirements. Trees are not allowed to re-grow within the permanent easement to a size that could be used by NLEB. Temporary impacts are those associated with construction in the temporary right-of-way easement, including small adjacent impacts at temporary workspaces such as road or stream crossings. Trees are allowed to re-grow within the temporary easement to a size that could be used by NLEB. Finally, Table 5 summarizes acres of NLEB habitat that have been avoided by trenchless crossings of rivers and streams (e.g., horizontal directional drill (HDD) crossings or bore crossings). Note that Table 4 already accounts for the avoidance impacts in Table 5.

Approximately 53 percent of impacts in Suitable Habitat would be temporary (8.4 acres; Table 4); trees cleared in these areas would be allowed to re-grow to a size that could be used by NLEB. About 47 percent of impacts in Suitable Habitat would be permanent (7.4 acres; Table 4); trees would not be allowed to re-grow to a size that could be used by NLEB in these areas. Overall, 63 percent of permanent impacts would occur in areas with

Unsuitable Habitat or Isolated Habitat (e.g., stands < 3 inches dbh or fragmented tree stands often in isolated shelterbelts).

Although permanent impacts would occur in areas with a Suitable Habitat for NLEB, those impacts would be greater without avoidance measures implemented at stream and river crossings. Trenchless crossings at these sites would avoid impacts to approximately 5.2 acres of Suitable Habitat; consequently, 41 percent of permanent impacts in Suitable Habitat would be avoided (Table 5).

Table 4. Northern Long-Eared Bat Habitat Impact Assessment in North Dakota

Northern Long-Eared Bat Habitat	Impact Type	North Dakota
Suitable	Permanent	7.4
	Temporary	8.4
	Total Suitable	***15.8***
Unsuitable	Permanent	3.6
	Temporary	8.0
	Total Unsuitable	***11.7***
Isolated`	Permanent	8.8
	Temporary	7.9
	Total Isolated	***16.6***
	Grand Total	**44.0**

Table 5. Northern Long-Eared Bat Habitat Avoidance Assessment in North Dakota

Northern Long-Eared Bat Habitat	North Dakota
Suitable	5.2
% Permanent Impact Avoidance	*41.5%*
Unsuitable	0.1
% Permanent Impact Avoidance	*1.4%*
Isolated	0.9
% Permanent Impact Avoidance	*8.9%*
Grand Total	**6.1**

The Service evaluates impacts to NLEB through a variety of metrics in its Determination Key (USFWS 2023b). These metrics include the timing of tree removal (e.g., during the maternal roosting season or not), an analysis of the acreage of trees removed in stand, the amount of separation between stands created by tree removal, and the proximity of tree removal to hibernacula.

The Project intends to remove trees outside of the maternal roosting season (i.e., April 1 – July 15) for North Dakota. There are no known hibernacula within 5 miles of any Project component in North Dakota (informal consultation January 25, 2022). The Project would not remove more than 10 acres of trees at any site or within any stand. The largest area of tree removal in North Dakota would be approximately 1.4 acres on the north bank of the Sheyenne River. The surrounding area within 3 miles of the Project at the Sheyenne River includes more than 3,000 acres of Suitable habitat; consequently, removal of approximately 1.4 acres on the north bank would equate to less than 1 percent of Suitable habitat in the surrounding area. Finally, no wooded area would be separated by more than 1,000 feet due to tree removal. The Project footprint typically varies from 100 to 200 feet wide and no connecting habitat of 1,000 feet between areas of Suitable habitat would be removed.

3.4 Summary

The proposed MCE Project would traverse areas in North Dakota with various types of habitat for NLEB. This report documents the results of a desktop habitat assessment for NLEB and is intended to assess the quality and type of habitat that a wooded area within the Project ESA and footprint in North Dakota could provide for NLEB.

The Project in North Dakota occurs in a highly fragmented landscape with limited wooded areas. Most of the wooded areas that do occur within the Project ESA are comprised of small, isolated stands surrounded by large areas of cultivation; it is unlikely that these types of isolated wooded areas provide habitat for NLEB. Almost all wooded areas with Suitable Habitat for NLEB are located along creeks, rivers, wooded valleys, and associated tributaries; however, it is unknown if NLEB are actually present at these sites and the Service notes that based on the best available science, most Suitable Habitat is now expected to be unoccupied (USFWS 2023e).

Approximately half of impacts in Suitable Habitat would be temporary and trees would be allowed to re-grow to a size that could be used by NLEB. The remaining half of impacts in Suitable Habitat would be permanent and trees would not be allowed to re-grow to a size that could be used by NLEB due to federal safety regulations that require periodic right-of-way clearing to allow for aerial inspection. This clearing would only occur within the permanent easement portion of the Project footprint. Avoidance measures (i.e., trenchless river crossings) would avoid about 41 percent of impacts in Suitable habitat in North Dakota that would otherwise occur. The largest area of Suitable habitat that would be affected (1.4 acres) is on the north side of the Sheyenne River, impacts in this area are less than 1 percent of Suitable habitat in the surrounding area.

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Appendix A –
2022 Dakota Skipper (*Hesperia dacotae*) North Dakota Survey Protocol

2022 Dakota Skipper (*Hesperia dacotae*)
North Dakota Survey Protocol



Photo credit: Jerry Reinisch

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2022 Dakota Skipper Survey Protocol

Assessing Sites for Dakota Skipper Presence in North Dakota

Background & Purpose

This protocol is offered as a recommended approach when conducting occupancy surveys on grasslands in North Dakota where and when the objective is to detect the presence of the Dakota skipper (*Hesperia dacotae*) at the site scale. This protocol is designed to address the species' likelihood and level of occupancy at the site scale when and where little or no pre-existing information is available to determine if the species is present. This protocol may be used in other states if agreed to by Ecological Services field office personnel in those states.

This protocol can be used for surveys for which the primary objective is to monitor the species' abundance or population status and trend over extended timeframes or large spatial scales. The current range map for Dakota skipper is included in Appendix A.

This document provides the user with information to decide where surveys for the Dakota skipper may be warranted; standardized 'ground rules' to help ensure that survey methods are repeatable and results will be as reliable as possible; and outlines how to report survey data to the FWS. The reliability of survey results for Dakota skippers depends on several factors, including: the abilities and expertise of observers; survey timing relative to the species' flight period; time of day and weather conditions; and, the species' density. The species' flight period varies somewhat from year to year depending on annual variations in weather (Dearborn and Westwood 2014, entire).

For additional information on Dakota skipper ecology and threats to its continued existence contact the U.S. Fish and Wildlife Service North Dakota Ecological Services Field Office (NDFO) or visit the following website:

http://ecos.fws.gov/ecp/species/1028

Historical and Current Dakota Skipper Distribution in North Dakota

The Dakota skipper inhabits grassland habitat in north-central United States andsouthern Canada. In the United States, the species occurs in portions of Minnesota, North Dakota, and South Dakota. The species is currently presumed to be absent from Illinois, Iowa,and eastern Minnesota (79 FR 63672:63667).

The 2022 Township Map (Appendix A) depicts observations of the Dakota skipper at the township level in North Dakota where the species has occurred historically within the last 30 years (McCabe 1981, p. 179-193).

Making a Decision to Conduct an Occupancy Survey

Site Assessments and Delineating the Survey Areas

To determine whether surveys for Dakota skippers are warranted, we recommend first delineating the area that may be affected (directly or indirectly), by the proposed or ongoing action referred to as the action area[1]. The action area should be entered into IPAC to determine if DASK could be associated with the area, the second step would be to assess whether Dakota skipper suitable habitat is present. We recommend contacting the NDFO for assistance for survey decisions [2]. By comparing the IPAC analysis to the current township occurrence and DASK range map occupancy surveys can be justified.

Determining if Dakota skipper habitat is present requires an assessment of the vegetation. Sites containing native prairie grassland and having features indicative of Dakota skipper habitat, described on pages 7-9 of this document, may harbor the species[3]. **Dakota skippers are not likely to be present in cropped areas, previously cropped areas, non-native haylands, pasture or other grassland that is dominated by non-native species, or in areas where trees or shrubs predominate.The species occurs in some grazed lands that are dominated by native prairie vegetation.**

Dakota skipper habitat often occurs in a patchy mosaic pattern on the landscape due to underlying site characteristics, prior land management, and other factors. Occupancy surveys are conducted during the flight period and are performed within the patches that contain features and conditions typical of Dakota skipper habitat. Surveys should encompass a 250 meter buffer to adjacent habitat when nectar sources are present, in bloom, and in close proximity to other suitable habitat.The habitat patches should be mapped (location and size) in order to evaluate the landscape habitat connectivity.

The proximity of habitat patches informs how a site of interest may play a role in the species viability in a given landscape, in regards to reproduction, movement and persistence (Haddad 1999, entire). The detection rate for the species has not been modeled under differing densities (due to habitat, weather, or population factors), so the only means of reducing the risk of incorrectly concluding the species is not present, when it actually is present is to increase survey effort. For this reason, we recommend surveys be conducted for a minimum of two consecutive seasons (flight periods).

[1] Action area is defined as all areas that may be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action. It encompasses the geographic extent of environmental changes (i.e., the physical, chemical and biotic effects) that will result directly and indirectly from the action. The action area may be up to 1 km (0.6 mi) larger than the area

[2] There remains a potential that the species may currently reside in some counties listed as 'presumably absent' due to the incomplete nature of past survey efforts. An IPAC search would assist with determining presence.

[3] For a more detailed description of typical Dakota skipper habitat features, see 79 FR 63672:63674-63675.

Alternatively, if it is not practicable to complete two seasons of surveys, the survey effort within one season of surveys should be increased by surveying all suitable Dakota skipper habitat and recording total number of DASK out to a minimum of 250 m (820 ft) from the site of interest. In the special case when the site of interest is within 1 km (0.6 mi) of an established population of Dakota skippers, we recommend the buffer distance be increased to 500 m (0.3 mi) due to the importance of knowing the precise distribution of occurrence of the species in these areas.

If the action area is included in an area designated by the National Weather Service as being in an extreme or exceptional drought status, two years of occupancy surveys are required to establish the status of the Dakota skipper. This drought status is updated by the National Weather Service weekly on the Drought Monitor Map.

In some cases, occupancy survey results from prior years may be available for the site, section, or township of interest. This may be used to inform the likelihood of occupancy at the site. For example, if there is a known location where the species has been documented within 1 km (0.6 mi) of the site of interest, and there is sufficient connectivity between the two sites, occupancy may be assumed by consulting with the Service. In other instances, there may be three or more years of pre-existing surveys at a site that resulted in no detections of Dakota skippers, which may be sufficient to conclude the species is not present. We recommend that you coordinate with the NDFO to ensure survey results being being considered are reliable with regard to the Dakota skipper's status at a site.

Persons with sufficient expertise in prairie ecology, Dakota skipper ecology, or both should preview sites before the flight period to delineate survey areas. Pre-survey reconnaissance of action area and 250 meter buffer could facilitate efficient use of limited surveyor time by delineating habitat patches that should be surveyed during the flight period. In some cases, occupancy surveys may be limited to those habitat patches directly affected by the footprint of the action.

Minimum Qualifications for Surveyors

Dakota skippers are not readily identified in the field without specialized training and experience. Therefore, agencies and others who want to determine whether or not the species is present in an area must secure the assistance of individuals who are qualified to carry out scientifically credible surveys and who are permitted by the USFWS to complete these surveys.

The Service assesses the qualifications of individuals pursuant to the following criteria:

1. Demonstrated ability to complete surveys for Dakota skippers or similar species and prepare technical reports to convey results along with working with a permitted surveyor for one season (able to obtain reference from the permitted surveyor); and,

2. Previous experience surveying and identifying Dakota skippers. Exceptions may be made for persons with prior experience with similar species and/or extensive experience with other butterfly species – e.g., extensive experience conducting surveys for other rare butterfly species.

Persons who may attempt to capture Dakota skippers during surveys need to obtain a permit from the Service (see, https://fwsepermits.servicenowservices.com/fws). A list of persons who have obtained such permits and who have agreed to allow the Service to release their contact information may be obtained from the NDFO. To obtain a permit please contact theService's Endangered Species Permit Coordinators in the Midwest and Mountain-Prairie regional offices or download the permit application form at https://fwsepermits.servicenowservices.com/.

Survey Ground Rules

FWS recommends that surveys adhere to the following 'ground rules' to ensure that results will beuseful for determining whether Dakota skippers may be present in the survey area. **For project action areas of greater than 10 acres the Service recommends the use of more than one permitted surveyor whenever possible. Time expended during a survey effort should be recorded and included in the annual report (See Additional Recommendations Section for suggested rates).**

Timing & Number of Surveys

The initiation date for surveys is a critical component of data reliability for the Dakota skipper. Multiple surveys (minimum of three (3) during the flight period) are necessary to determine the species' likelihood of occurrence at a site because the species is exceptionally difficult to detect because the species often occurs at low density and it is difficult to identify. The start of the flight period varies considerably among years (Rigney 2013, p. 138; Dearborn and Westwood 2014, entire), but typically begins in mid to late June in North Dakota. The flight period occurs one time period per year and may last 13-19 days or less at any given site (e.g., Rigney 2013, p. 138). Recent information related to emergence in North and South Dakota (Skadson 2018, pers. comm.) place the flight period sometime between June 12th to July 15th.

- To ensure that surveys are initiated at the proper time (encompassing the peak of the flight period) requires documentation of the following:
    - emergence at one or more reference sites in North Dakota[3], where the species occurs on an annual basis, and
    - the flowering plants within the action area are at the optimum phenological stage (see the section entitled *Phenological Indicators*)
      In all survey areas for Dakota skipper the entire action area and 250 m buffer should be surveyed. Total numbers of DASK observed would be recorded for each survey and
    - three (3) survey days have been completed of the action area and buffer during the *peak*[4] of the flightperiod; or
    - at least two (2) surveys of the entire action area and buffers have been conducted during the peakflight period over a two consecutive year period (this option is available in cases where prolonged unfavorable weather conditions may preclude three surveys at a location during the flightperiod).

[3] Select the reference sites that are nearest to the site in question;

[4] The likelihood of detecting Dakota skippers is low during the early and late stages of the 13-19-day flight period and may be highest during an approximately five-day period when the male flight overlaps with the peak of the female flight (Rigney 2013, p. 140).

If the action area is included in an area designated by the National Weather Service as being in an extreme or exceptional drought status, two years of occupancy surveys are required to establish the status of the Dakota skipper. This drought status is updated by the National Weather Service weekly on the Drought Monitor Map.

Surveys:

- should be conducted between 1000 and 1730 hours (10:00 am – 5:30 pm); times can be adjusted to particular time zones where the surveys occur and by individual surveyor's preference based on experience..
- should never be conducted during periods of fog, drizzle, or rain;
- are recommended to be conducted only during periods of sustained or gusting winds that average *less than* 30 km/hr (19 mi/hr) measured during a 30 second period, at a height of 1.2-1.8 m (4-6 ft) above ground level (*corresponding to a Beaufort Scale of 4 or less*);
- are recommended to be conducted when temperature in the shade at ground level is less than 21^0 C (70^0 F) and the cloud cover is less than 50 percent, or less than 30^0 C (86^0 F) when cloud cover is 50 percent or more..
- Survey transect coordinates are available from NDFO for verifying Dakota skipper flight dates for permitted surveyors (included coordinates and access procedures). Be sure to contact agencies or land owners and obtaining any necessary permits prior to conducting surveys.

- The three (3) surveys during one flight period should be separated by 48 hrs unless doing so would result in subsequent surveys occurring past the *peak* of the flight period. This recommendation to conduct field surveys on separate days is intended to increase the likelihood of detection. Given the short duration of the Dakota skipper flight period, surveys will not be rejected when they are not separated by 48hrs ***if*** justification is given, and, surveys are conducted under optimal weather conditions.

Phenological Indicators

Documentation of the phenological indicators is typically the most important consideration when deciding the date to initiate the first survey of the flight period. Phenological indicators also can aid a retrospective assessment of whether a previous survey for Dakota skipper was appropriately timed. There are two types of phenological indicators to consider: the emergence of other butterflies and the availability/abundance of nectar sources.

The phenological progression of adult butterfly emergence in a Manitoba, Canada study area occurred as follows: European skipper (*Thymelicus lineola*), long dash (*Polites mystic*), tawny-edged skipper *(P. themistocles),* Peck's skipper (*P. peckius*), Dakota Skipper, silver-spotted skipper (*Epargyreus clarus*) and dun skipper (*Euphyes vestris*; Rigney 2013, p. 14). Peck's

skipper, which is similar in appearance to Dakota skipper, emerged "immediately before and at the same time as Dakota Skipper" and that dun skipper emerged "near the end of the Dakota Skipper flight period" (Rigney 2013, p. 141). Notably, the peak flight period for the wood nymph (*Cercyonis pegala*), a conspicuous species in many Dakota skipper habitats, corresponded to the emergence of Dakota skippers (Rigney 2013, p. 141). Thus, life history of other butterfly species can be very useful towards informing the timing of the peak flight period for Dakota skippers.

Plant phenology is also a reliable means to establish the timing of Dakota skipper surveys. The abundance and diversity of flowering plants should be used to better understand the preferred nectar sources of butterflies. Therefore, dominant floristic data should be reported as part of the data collection for each survey. The form included in the survey protocol can be used as an example (Appendix B).

In North Dakota, Dakota skippers are found in the following two general habitat types:

1. **Type A Habitat**

The first type is a low-lying, wet-mesic prairie with little topographic relief that occurs on near-shore glacial lake deposits. Royer et al. (2008, p. 14-16) referred to this as Type A Dakota skipper habitat.

Although Type A habitats vary throughout the growing season (Rigney 2013), during Dakota skipper's flight period, three plant species are almost always present and blooming: prairie lily *(Lilium philadelphicum),* bluebell bellflower (*Campanula rotundifolia),* and mountain deathcamas (smooth camas; *Zigadenus elegans)* - the latter appears to be an especially strong indicator of Dakota skipper Type A habitat in North Dakota (McCabe 1981, p. 190; Royer et al. 2014, p. 1).

Later in the season, common forbs in bloom in Type A habitat include Rocky Mountain blazing star *(Liatris ligulistylis),* Canada goldenrod *(Solidago canadensis),* strict blue-eyed grass *(Sisyrinchium montanum),* common goldstar (yellow star grass; *Hypoxis hirsuta),* and blackeyed Susan (Lenz 1999, p. 6). Type A habitats also contain small patches of dry-mesic prairie inhabited by Dakota skippers. Stiff sunflower *(Helianthus pauciflorus Nutt. ssp. pauciflorus)* and candle anemone *(Anemone cylindrica)* are typical in these dry-mesic habitats; purple coneflower *(Echinacea angustifolia),* an indicator of Type B habitats (see below) may be present, but is rare in these dry-mesic 'inclusions' (Lenz 1999, p. 6-11).

Plants that are important as nectar sources for Dakota skipper 'Type A' habitats appear to vary geographically, but blackeyed Susan *(Rudbeckia hirta L. var. pulcherrima)* is significant throughout the range of this habitat type. Habitat conservation value for Dakota skippers may be greater at sites where the presence of a variety of species that serve as nectar sources occurs because plant species likely vary in their energetic value or availability during the adult flight period (Dana 1991, p. 48).

Big bluestem *(Andropogon gerardii)* and little bluestem (*Andropogon scoparius*) are typically the dominant grasses in North Dakota 'Type A' habitats and indiangrass

(Sorhastrum nutans) may also be present (Royer et al. 2014, p. 1). Dakota skipper adults are typically encountered in "pre-floral stands" of these grass species where they are associated with the forb species described above (Royer et al.2014, p. 1).

2. Type B Habitat

Dakota skipper Type B habitat (Royer *et al.* 2008, p. 14), typically supports a high diversity and abundance of native forbs, including purple coneflower, purple prairie clover *(Dalea purpurea),* white prairie clover (D. *candida),* yellow sundrops *(Calylophus serrulatus),* lambstongue groundsel *(Senecio integerrimus),* groundplum milkvetch *(Astragalus crassicarpus),* eastern pasqueflower *(Pulsatilla patens),* old man's whiskers (prairie smoke, *Geum triflorum),* western silver aster *(Symphyotrichum sericeum),* dotted blazingstar *(Liatris punctata),* tall blazing star (L. *aspera),* meadow zizia (heartleaf golden alexanders; *Zizia aptera),* blanket flower *(Gaillardia sp.),* prairie sagewort *(Artemisia frigida),*and leadplant *(Amorpha canescens)* (Skadsen 2006, p. 1-2). Prairie milkvetch *(Astragalus laxmannii Jacq. var. robustior)* also occurs in 'Type B' habitats in Minnesota(Dana 1997, p. 8).

In the rolling terrain of river valleys and the Missouri Coteau of North Dakota, on the western edge of the species' known range, Dakota skippers inhabit a variant of 'Type B' habitats (Fig. 5). These habitats typically contain an association of little bluestem, big bluestem, and needlegrasses that is often invaded by Kentucky bluegrass *(Poa pratensis)* (Royer and Marrone 1992, p. 22). These prairies, also typically contain prairie lily, bluebell bellflower, coneflowers, and other asters as nectar sources; in some areas, mountain death camas also occurs (Royer and Marrone 1992, p. 22).

Type B habitat (Royer *et al.* 2008, p. 14), occurs primarily on rolling terrain over gravelly glacial moraine deposits and is dominated by big bluestem, little bluestem, and needle or porcupine grasses *(Hesperostipa spp.)* (Fig. 4). As in 'Type A' habitats, bluebell bellflower and prairie lily are present in 'Type B' habitats, but they support more extensive stands of purple coneflower, upright prairie coneflower *(Ratibida columnifera),* and common gaillardia (blanketflower; *Gaillardia aristata)* (Royer et al. 2014, p. 1-2). Each of these is a documented nectar source for the Dakota skipper in 'Type B' habitats (McCabe 1981; Dana 1991).

Little bluestem and porcupine grass *(Hesperostipa spartea)* are the predominant grass species in South Dakota 'Type B' habitats, but side oats grama, needle-and-thread grass *(H. comata),* and prairie dropseed are also typical (Skadsen 2006, p. 1-2). In a variant of 'Type B' habitats found in western North Dakota (Fig. 5), western wheatgrass *(Pascopyrum smithii)* is also typical (Royer et al. 2014, entire).

Survey Routes and Survey Area

Data to Collect

- Record the location (GPS coordinates and projection); time of day; and the plant upon which the individual was observed (if applicable). A shapefile of positive occurrence locations should be included in the annual report.
- Record the numbers of other butterfly species observed in each survey area. Data regarding the identity and numbers of other butterfly species present during surveys should be collected because it may be useful in evaluating survey results. Rigney (2013, p. 142), for example, indicated that the ratio of Dakota skippers to long dash, tawny-edged skippers, Peck's skippers, and European skipper may be indicative of habitat quality for Dakota skipper.
- Record the route surveyed (GPS track log), number of surveyors, weather conditions (temperature, cloud cover, and wind speed), and observations about habitat conditions, threats, or management pre- and post-survey. To the extent feasible, record the sex and condition of eachDakota skipper observed. **The track logs of each survey completed (positive or negative) should be included as a shapefile in the annual report to the NDFO**.

- Handling affects the behavior of some butterflies after their release (Mallet et al. 1987, p. 328). Therefore, we are seeking information with respect to the post-release behavior of any Dakota skippers that are captured and released. The behavior of each captured and released butterfly will be noted and reported annually as follows:
    - Flew to and perched on herbaceous vegetation, low shrubs, or to out-of-sight location in herbaceous vegetation (e.g., into plant litter or duff layer or into bases of grasses);
    - Flew into tall shrubs or trees and out-of-sight;
    - Flew away – did not see butterfly perch or fly into vegetation; or,
    - Post-release behavior unknown

- If the survey is conducted under the authority of an ESA section 10(a)1(a) permit issued by the Service for work in North Dakota, the surveyor must meet any additional requirements for collection and reporting per the conditions specified in the permit.

Additional Recommendations

- Surveys should be conducted by qualified surveyors walking along routes through the survey area (patches). Survey routes can cover up to 5 m (16.4 ft) meters on each side of the observer. Establish enough routes to ensure that the survey will cover all of the survey area. If a Dakota skipper sighting has been confirmed, an additional survey should be completed to quantify the extent of occupancy of the action area and buffer.

- Conduct surveys at an average rate of 1-3 ha/hr (2-7 ac/hr, based on the 35 meters/minute survey pace and the assumption that five meters are effectively surveyed on either side of the observer, as reported by Royer and Royer (2012). Survey rates may be adjusted according to butterfly activity and surveyor's experience level.

- Survey routes should be roughly parallel to each other, spaced approximately 10 m (32.8 ft) apart, and within 5 m (16.4 ft) of the survey area boundary to ensure complete coverage of the habitat within the entire action area and buffer.

- Do not conduct Dakota skipper surveys concurrently with any other focused survey, such as plant surveys, bird surveys, etc.

- Adjustments to the survey area boundaries may be made during the survey if areas that do not contain Dakota skipper habitat are encountered. Areas of no habitat should be mapped and described in the final survey report.

Identification of Dakota Skippers

- Positive identification of Dakota skippers may be confirmed by capture (netting) and release, close-up (perched) examination, or photo-documentation.

- Persons not qualified to conduct typical surveys for Dakota skipper may attempt to document the species' presence with photography. Surveys sufficient to support a presumption of absence, however, should follow the netting and release protocol.

- To ensure that species identity may be confirmed, multiple photos should be taken from both the dorsal and ventral perspective (Rigney 2013, p. 141). Negative surveys conducted by persons who do not meet the minimum qualifications for surveyors, described above, would not be considered sufficient as a basis for the species absence.

Results from surveys conducted under environmental conditions that do not conform to the optimum climatic and phenological conditions, or time of day and other recommended methods described herein may be considered *unreliable*.

Reporting Results

Provide survey reports to the North Dakota Field Office by December 15 of the current field season along with a copy of their current recovery permit. The following information should be included:

- Geographic coordinates of any Dakota skipper observed and a map depicting the survey area(s), and survey route(s). In addition, include shapefiles of positive Dakota skipper occurrences and survey routes for each location surveyed whether Dakota skippers are observed or not.

- Provide maps depicting the location and extent of Dakota skipper habitat at the survey site. If possible, also provide the associated GIS data that could be used to identify the location and extent of Dakota skipper habitat, the survey area, and survey routes. Include coordinate system, projection and datum with all GIS data.

- For each survey include weather conditions: wind speed (or Beaufort Scale), air temperature, cloud cover, and the time at beginning and end of each survey route. In addition, include names of dominant flowering plants encountered during the survey (see Data Sheet in Appendix B).

Conclusion: Implication of Survey Results

If Dakota skippers are not detected at a site using the methods described herein (for either 1 or two seasons of surveys), the Service will consider the species absent from a site for a period of one year from date of survey subject to the following circumstances:

- For sites > 1 km (0.6 mi) from a previously confirmed Dakota skipper sites:
    - Additional survey seasons of a site are unnecessary if the species has not been detected during three prior seasons of surveys. In this case, the site (plus the 250 m buffer) is considered 'not occupied by Dakota skippers' for a minimum of two (2) additional seasons (three (3) full seasons including the year of the last survey).
    - Additional survey seasons may recommended to reassess species status at a site if the species is later confirmed to be present within 1 km (0.6 mi) of the site following the date of the last negative survey.

- For sites ≤ 1 km (0.6 mi) from a previously confirmed Dakota skipper sites:
    - Additional survey seasons of a site are unnecessary if the species has not been detected during three prior seasons of surveys. In this case, the site (plus the 500 m buffer) is considered 'not occupied by Dakota skippers' for a minimum of two (2) additional seasons (three (3) full seasons including the year of the last survey).

If one or more Dakota skippers are detected at a site, the Service will assume the site is occupied for a minimum of two additional years (three years total). Additional surveys before the three year minimum occupancy period are not recommended, but if completed and negative (no detections), the results will *not* supersede the occupied status. After three years, additional Dakota skipper surveys are recommended to update the occupancy status. A flowchart describing this process is included in Appendix C.

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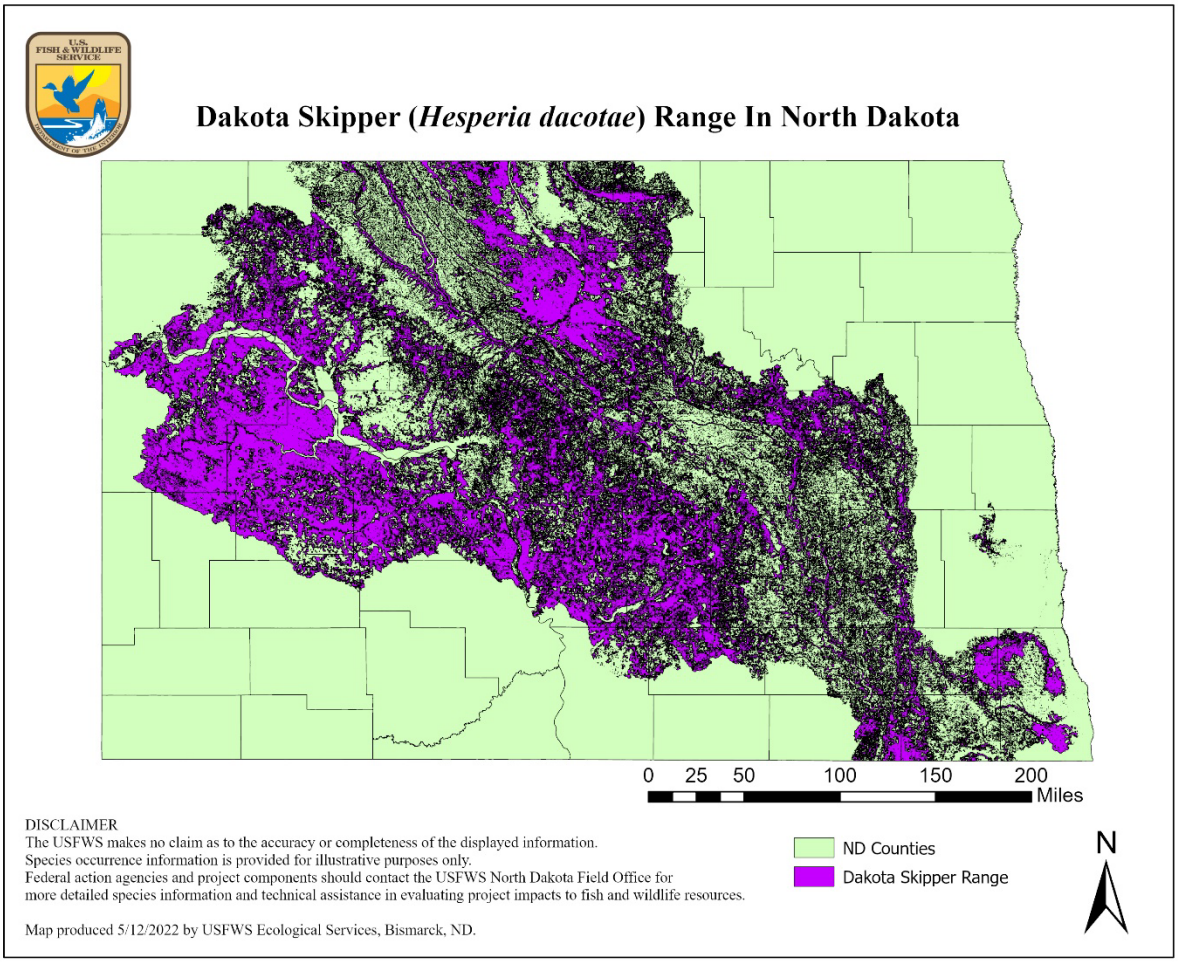
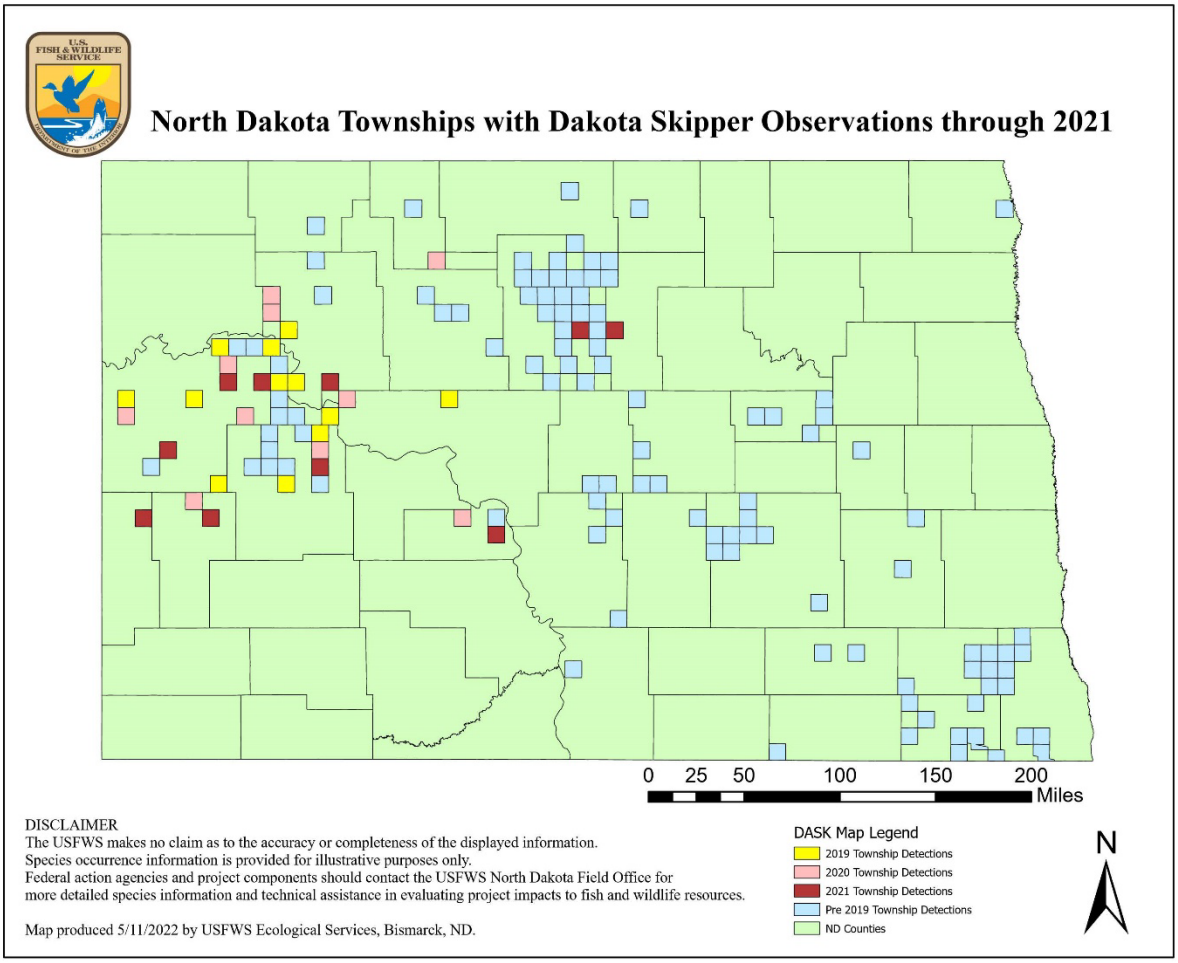
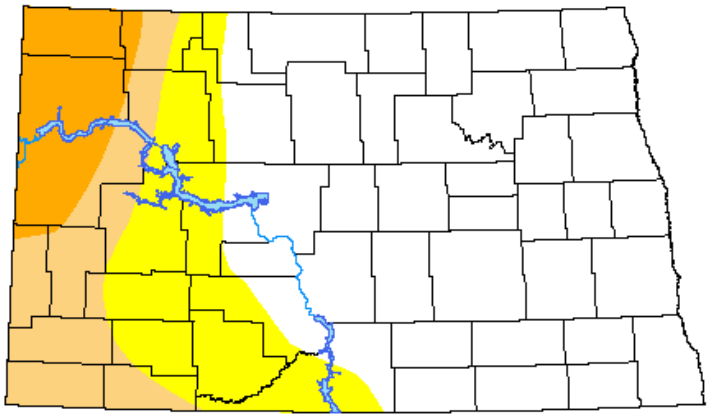
APPENDICES

Appendix A




North Dakota Townships with Dakota Skipper Observations through 2021
0 25 50 100 150 200
Miles
DISCLAIMER
The USFWS makes no claim as to the accuracy or completeness of the displayed information.
Species occurrence information is provided for illustrative purposes only.
Federal action agencies and project components should contact the USFWS North Dakota Field Office for more detailed species information and technical assistance in evaluating project impacts to fish and wildlife resources.
Map produced 5/11/2022 by USFWS Ecological Services, Bismarck, ND.
DASK Map Legend
2019 Township Detections
2020 Township Detections
2021 Township Detections
Pre 2019 Township Detections
ND Counties
N

U.S. Drought Monitor
North Dakota



May 3, 2022
(Released Thursday, May. 5, 2022)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	63.51	36.49	19.37	7.98	0.00	0.00
Last Week 04-26-2022	63.52	36.48	19.37	8.26	0.10	0.00
3 Months Ago 02-01-2022	19.47	80.53	52.23	26.27	7.04	0.00
Start of Calendar Year 01-04-2022	20.02	79.98	54.03	22.01	8.21	0.00
Start of Water Year 09-28-2021	0.24	99.76	99.64	92.08	58.62	0.43
One Year Ago 05-04-2021	0.00	100.00	97.84	92.99	84.98	0.00

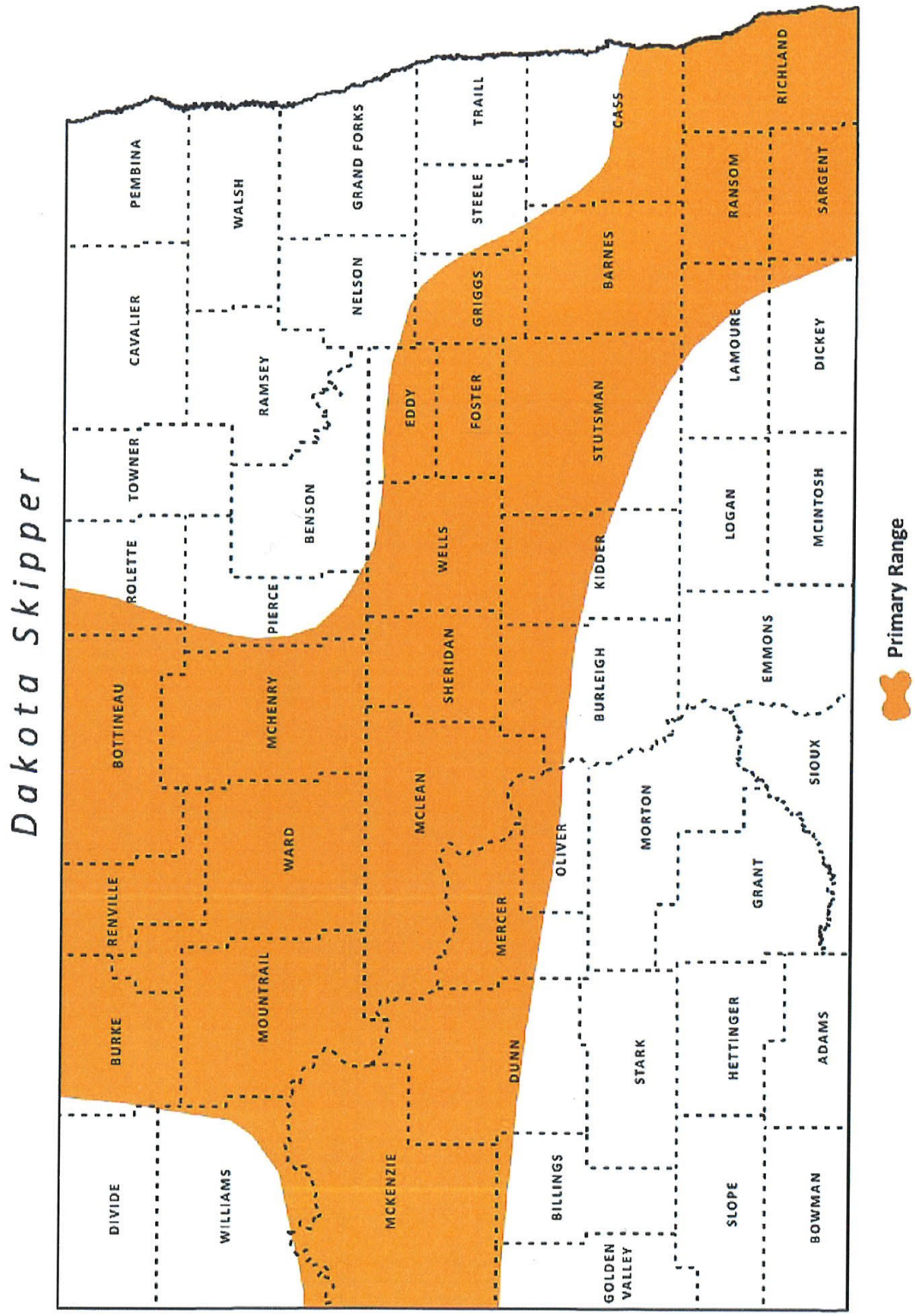
Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:
David Simeral
Western Regional Climate Center

droughtmonitor.unl.edu


Dakota Skipper
PEMBINA
WALSH
GRAND FORKS
TRAILL
CASS
RICHLAND
CAVALIER
NELSON
STEELE
RANSOM
SARGENT
RAMSEY
EDDY
GRIGGS
BARNES
LAMOURE
DICKEY
TOWNER
FOSTER
STUTSMAN
LOGAN
MCINTOSH
ROLETTE
BENSON
WELLS
KIDDER
PIERCE
SHERIDAN
BURLEIGH
EMMONS
BOTTINEAU
MCHENRY
SIOUX
MCLEAN
OLIVER
MORTON
WARD
GRANT
RENVILLE
MERCER
BURKE
MOUNTRAIL
STARK
HETTINGER
ADAMS
DUNN
DIVIDE
WILLIAMS
MCKENZIE
BILLINGS
SLOPE
BOWMAN
GOLDEN VALLEY
Primary Range

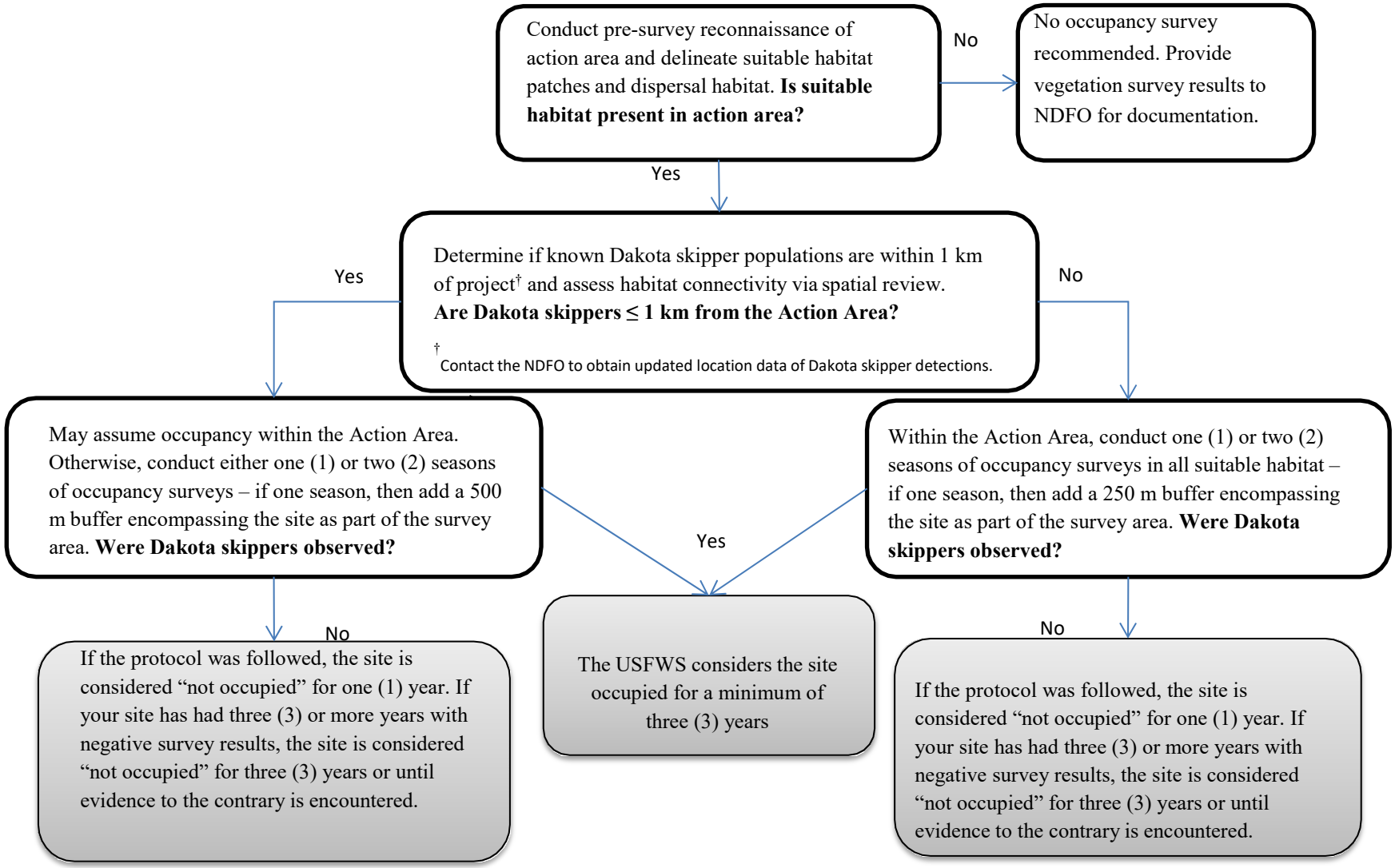
Appendix B
Dakota Skipper Flowering Plant Line Count Data Sheet

Site name/ID_____Date_____
County_____Legal:¼S,T,R_____
Survey____of_____Observer(s)_____

Species	Tally: flowering stems	n	Tally: non-flowering stems	n
Purple coneflower				
Milkweed (all spp.)				
Vetch (all spp.)				
Alfalfa*				
Thistle (all spp.)				
Yellow coneflower				
Prairie Violet				
Goldenrod				
Wild Rose				
Curlycup gumweed				
Blazing star				
Penstemon spp.				
Smooth fleabane				
Western wallflower				
Prairie lily				
Purple prairie clover				
Black-eyed Susan				
Scarlet globemallow				
Maximilian sunflower				
Spiderwort				
Harebell				
Silverleaf scurfpea				
Leadplant				
Wild bergamot				
R. Mtn. bee-plant				
Blanket flower				
Dandelion				

NOTES:

Appendix C


Conduct pre-survey reconnaissance of action area and delineate suitable habitat patches and dispersal habitat. **Is suitable habitat present in action area?**
No
No occupancy survey recommended. Provide vegetation survey results to NDFO for documentation.
Yes
Determine if known Dakota skipper populations are within 1 km of project† and assess habitat connectivity via spatial review. **Are Dakota skippers ≤ 1 km from the Action Area?**
† Contact the NDFO to obtain updated location data of Dakota skipper detections.
Yes
No
May assume occupancy within the Action Area. Otherwise, conduct either one (1) or two (2) seasons of occupancy surveys – if one season, then add a 500 m buffer encompassing the site as part of the survey area. **Were Dakota skippers observed?**
Within the Action Area, conduct one (1) or two (2) seasons of occupancy surveys in all suitable habitat – if one season, then add a 250 m buffer encompassing the site as part of the survey area. **Were Dakota skippers observed?**
Yes
No
No
If the protocol was followed, the site is considered "not occupied" for one (1) year. If your site has had three (3) or more years with negative survey results, the site is considered "not occupied" for three (3) years or until evidence to the contrary is encountered.
The USFWS considers the site occupied for a minimum of three (3) years
If the protocol was followed, the site is considered "not occupied" for one (1) year. If your site has had three (3) or more years with negative survey results, the site is considered "not occupied" for three (3) years or until evidence to the contrary is encountered.

Appendix B –
2023 Dakota Skipper Survey Forms Midwest Carbon Express Project in North Dakota

DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser Date: 07/01/2023 Time of Day:1100	Site ID: No_Hab_DASK_102 Tract #s: ND-OL-328-010.100 ND-OL-328-008.100 ND-OL-1131.000
Vegetation Community Type: Disturbed grassland, shrubby slopes	Grazing: None **Light** Moderate Heavy	
Photo #s (Initial-#) PC2089 N, 2090-2093 NESW, 2094-2097 NESW, 2098-2101 NESW		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 78	Percent Cloud Cover: 60-70	Windspeed (MPH): 2

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
BOUGRA: 15	None	ARTLUD: 2	PSOARG: trace	MELOFF: 70-80	SHEARG 0-5
AGRSMI: 7		ARTDRA: 3	ARTFRI: 3	TRADUB: trace	SYMOCC: 1-25
AGRCRI: 3		RATCOL: trace	ASTFAL: trace	SALKAL: 3	ROSARK: trace
STIVIR: 3		LYGJUN: trace	ASTOBL: trace	ALYALY: trace	ELEANG: 2
POAPRA: 25		PETPUR: trace	CIRUND: trace	ERYASP: trace	JUNHOR: trace
BROINE: 4		*ARTABS: trace	ANTMIC: trace		
CARHEL: 11		ECHANG: trace	ACHMIL: trace		
STICOM: 1		VICAME: trace	MONFIS: 1		
CALLON: 10		HELANN: trace	AMBPSI: trace		
CARFIL: 3		LIAPUN: trace	*CIRARV: 1		
ANDSCO: trace		SOLMOL: trace	ERISTR: trace		

Butterfly Species Observed and Number of Each:

Common wood nymph	21	Fritillary	1
Cabbage white	16	Clouded sulfur (netted)	1
Alfalfa	2		

NOTES (Mgmt, context, mapping, etc): Although forb diversity is high, non-native species are also common and dominate floristic composition of the pasture. Minimal larval host plants. Presence of common wood nymph indicative of emergence potential for DASK but none observed. Per Jim Reiser, unsuitable DASK habitat.

* = noxious weed



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser Date: 06/29/2023 Time of Day: 1000	Site ID: No_Hab_DASK_103 Tract #s: ND-MO-1205.620 ND-MO-1205.120 ND-MO-1201.170 ND-MO-1201.180 ND-MO-1205.100
Vegetation Community Type: Disturbed mixed grass	Grazing: None **Light** Moderate Heavy	
Photo #s (Initial-#) PC2043 E, 2044-47 NESW, 2048-2051 NESW		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 72	Percent Cloud Cover: 0	Windspeed (MPH): </= 5

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
BROINE: 40	None	PSOARG: 1	*EUPESU: trace	POLALB: trace	SHEARG: 2
AGRCRI: 5		ARTFRI: 1	ANTPAR: trace	MELOFF: trace	SYMOCC: 3
CALLON: 4		ECHANG: 1	VICAME: trace	TRADUB: trace	ROSARK: 2
POAPRA: 8		SOLMOL: 1	AMBPSI: trace	ERYASP: trace	ARTCAN: trace
POACOM: 8		RATCOL: trace	*ARTABS: trace	ALYALY: 2	
ANDSCO: 4		AMOCAN: 1	GEUTRI: trace		
STICOM: 6		LIAPON: trace	ARTDRA: trace		
CARFIL: 10		ACHMIL: trace	ARTCAM: trace		
ARILON: 1		ARTLUD: 1	DALPUR: trace		
CARHEL: 6		ERISTR: trace	POTENT: trace		
AGRSPI: 3		CIRUND: trace	COMUMB: trace		

Butterfly Species Observed and Number of Each:

Common wood nymph (males) 5
Alfalfa butterfly (males) 3
Cabbage (whites) 7

NOTES (Mgmt, context, mapping, etc): Dominated by smooth brome. Good forb diversity but low amounts of larval host plants. Per Jim Reiser unsuitable DASK habitat.

* = noxious weed



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser Date: 06/29/2023 Time of Day:1200	Site ID: No_Hab_DASK_104 Tract #s: ND-MO-1205.130 ND-MO-1211.100
Vegetation Community Type: Variable grassland, Shrubby slopes	Grazing: None **Light** Moderate Heavy	
Photo #s (Initial-#) PC2052-2055 NESW, 2056-2059 NESW, 2060-2063 NESW, 2064-2067 NESW		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 79	Percent Cloud Cover: 0	Windspeed (MPH): 4-5

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
AGRSMI: 18	None	*EUPESU: trace	ARTFRI: trace	HELANN: trace	SHEARG: 28
POAPRA: 10		OXYSER: 1	GAIARI: trace	MELOFF: 40	SYMOCC: 8
HORJUB: 7		ECHANG: 1	ANTPAR: 1	TRADUB: trace	ARTCAN: 1
BROINE: 2		RATCOL: trace	ASTAGR: trace	ERYASP: trace	ROSARK: 3
ALOPEC: 5		AMOCAN: trace	OPUPOL: trace		PRUVIR: trace
AGRALB: 3		COMUMB: trace	SOLMOL: 1		CRA sp.: trace
STISPA: trace		DALPUR: trace	MEDSAT: trace		FRAPEN: trace
ELEOCH: 1		ACHMIL: trace	SPHCOC: trace		YUCGLA: trace
BOUCUR: 3		ASCPUM: trace	OPUFRA: trace		
CARFIL: 30		GEUTRI: trace	PSOARG: 1		
CARHEL: 24		CIRUND: trace	AMBPSI: trace		

Butterfly Species Observed and Number of Each:

Common wood nymph (males)	23	Great spangled fritillary	1
Alfalfa butterfly (males)	3	Melissa blue	1
Cabbage white	3	Unid. Skipper	1

NOTES (Mgmt, context, mapping, etc): Marginal DASK habitat due to lack of larval host plants and high cover of yellow sweet clover. Areas out of study area and further uphill appear to have better habitat. Per Jim Reiser, this site is unsuitable for DASK.

* = noxious weed



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser Date: 06/29/2023 Time of Day:1400	Site ID: No_Hab_DASK_105 Tract #s: ND-MO-1217.100 ND-MO-1216.100
Vegetation Community Type: Non-native grassland	Grazing: **None** Light Moderate Heavy	
Photo #s (Initial-#) PC2068-2071 NESW		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 81	Percent Cloud Cover: 5	Windspeed (MPH): 9-15

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
BROINE: 75	None	ECHANG: 1		MELOFF: 2	ROSARK: 2
POAPRA: 35		MEDSAT: 2			
		PSOARG: 2			
		*CONARV: trace			
		HELANN: trace			
		AMBPSI: trace			

Butterfly Species Observed and Number of Each:

Common wood nymph 1 Cabbage white 4

Alfalfa butterfly 2

NOTES (Mgmt, context, mapping, etc):

High cover of smooth brome and Kentucky bluegrass. No larval host plants, few nectar sources.

* = noxious weed



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser Date: 07/02/2023 Time of Day:1130	Site ID: No_Hab_DASK_111 Tract #s: ND-EO-0868.000
Vegetation Community Type: Mixed grass rangeland	Grazing: None Light **Moderate** Heavy	
Photo #s (Initial-#) PC2102-2105 NESW		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 80	Percent Cloud Cover: 10	Windspeed (MPH): 9-12

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
BOUGRA: 45	None	ARTDRA: 6		None	None
AGRSMI: 8		AMBPSI: 20			
CALLON: 10		ARTLUD: 12			
STICOM: 11		RATCOL: trace			
BROINE: trace		ARTFRI: 1			
		DALPUR: trace			
		HETVIL: trace			
		AMOCAN: trace			

Butterfly Species Observed and Number of Each:
None

NOTES (Mgmt, context, mapping, etc):
Per Jim Reiser, no suitable habitat present. Few larval host plants, few nectar sources, low forb diversity.



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser Date: 07/02/2023 Time of Day:1200	Site ID: No_Hab_DASK_112 Tract #s: ND-EO-0866.000 ND-EO-0867.000
Vegetation Community Type: Non-native pasture	Grazing: None **Light** Moderate Heavy	
Photo #s (Initial-#) PC2106 W, 2107 NW		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 88	Percent Cloud Cover: 0-5	Windspeed (MPH): 6

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
BROINE: 85	None	MEDSAT: 25		None	None

Butterfly Species Observed and Number of Each:
None

NOTES (Mgmt, context, mapping, etc):
Dominated by smooth brome and alfalfa.



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser Date: 07/02/2023 Time of Day:1130	Site ID: No_Hab_DASK_113 Tract #s: ND-EO-0863.000 ND-EO-0864.000 ND-EO-0865.000
Vegetation Community Type: Upland, Lowland grassland	Grazing: None Light Moderate **Heavy**	
Photo #s (Initial-#) PC2108-2112 NESW		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 88	Percent Cloud Cover: 0-5	Windspeed (MPH): 6+

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
ARILON: 1	None	AMOCAN: 20	CIRUND: trace	ARAHOL: trace	ROSARK: 3
POAPRA: 15		ARTLUD: 17	ARTCAM: trace	ERYASP: trace	PRUBES: 1
STICOM: 25		OENSER: trace		TRADUB: trace	
CARFIL: 11		LIAPUN: trace			
CALLON: 14		ANECYL: 1			
BOUGRA: 18		AMBPSI: 4			
STIVIR: 6		ECHANG: trace			
BROINE: 8		*EUPESU: 3			
AGRCRI: 1		DALPUR: trace			
ANDSCO: trace		RATCOL: trace			

Butterfly Species Observed and Number of Each:

Wood nymph	1	American painted lady	1
Cabbage white	3	Delaware skipper	1
Pahaska skipper	1	Variegated fritillary	1
Coral hairstreak	5	Regal fritillary	2
Crossline skipper	2		

NOTES (Mgmt, context, mapping, etc):

Historically, heavily grazed. Ridges have best habitat but still marginal. Per Jim Reiser, no suitable habitat present. Few key species to support DASK although otherwise good butterfly diversity.

* = noxious weed



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser Date: 07/02/2023 Time of Day:1300	Site ID: No_Hab_DASK_114 Tract #s: ND-EO-0861.000
Vegetation Community Type: Non-native grassland	Grazing: None **Light** Moderate Heavy	
Photo #s (Initial-#) DC88 S		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 88	Percent Cloud Cover: 0-5	Windspeed (MPH): 6

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
BROINE: 25	None	None		MELOFF: 6	None
POAPRA: 20				DESSOP: 2	
HORJUB: 5				CHELEP: 3	

Butterfly Species Observed and Number of Each:
None

NOTES (Mgmt, context, mapping, etc):
Dominated by smooth brome and Kentucky bluegrass.



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser, Reiser Jr. Date: 07/02/2023 Time of Day:1400	Site ID: No_Hab_DASK_115 Tract #s: ND-LO-0858.000
Vegetation Community Type: Non-native grassland	Grazing: **None** Light Moderate Heavy	
Photo #s (Initial-#) DC89		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 89	Percent Cloud Cover: 0	Windspeed (MPH): 7+

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
BROINE: 35	None	PSOARG: 4		None	None
AGRCRI: 50					

Butterfly Species Observed and Number of Each:
None

NOTES (Mgmt, context, mapping, etc):
Dominated by smooth brome and crested wheatgrass, very low forb diversity.



DAKOTA SKIPPER VEGETATION INVENTORY FORM

Project: Midwest Carbon Express	Crew: Christensen, Culwell, Larsen, Reiser, Reiser Jr. Date: 07/02/2023 Time of Day:1500	Site ID: No_Hab_DASK_116 Tract #s: ND-LO-0857.000 ND-LO-0855.000 ND-LO-0855.100 ND-LO-0856.000
Vegetation Community Type: Non-native grassland (cropped)	Grazing: **None** Light Moderate Heavy	
Photo #s (Initial-#) DC90		
DASK Habitat Type: Mesic Native Prairie Upland Native Prairie **Unsuitable**		
Temperature (F): 89	Percent Cloud Cover: 0	Windspeed (MPH): 7+

CLASS/SPECIES COVER

DOMINANT SPECIES BY MORPHOLOGICAL CLASS

PERENNIAL GRASSES	ANNUAL GRASSES	PERENNIAL FORBS		ANNUAL/BIENNAL FORBS	SHRUBS
AGRCRI: 50	None	None		GLYMAX: 80	None
BROINE: 25					
POAPRA: 15					

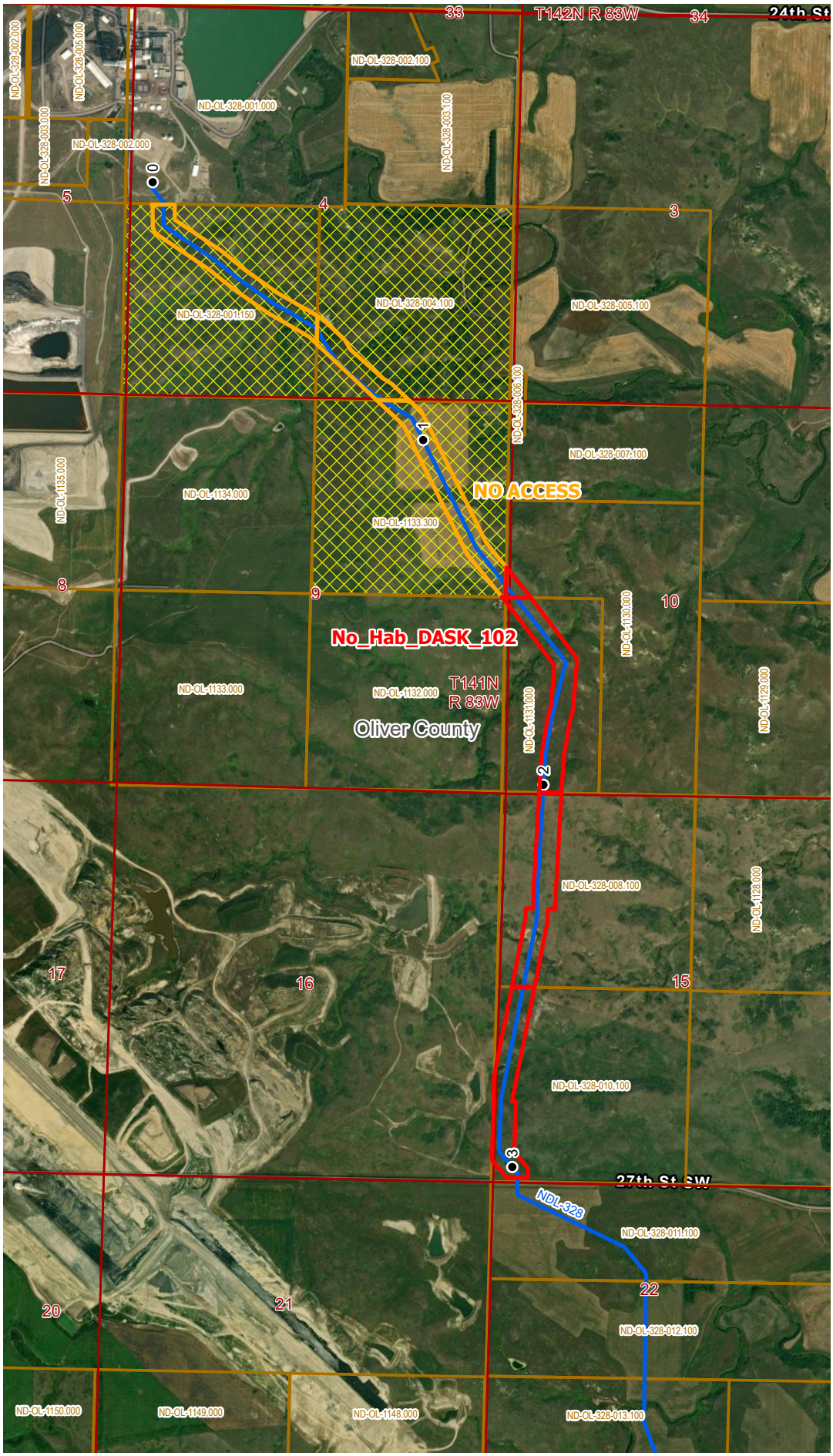
Butterfly Species Observed and Number of Each:
None

NOTES (Mgmt, context, mapping, etc):
Cropped soybean field, non-native grassland. Cover of grasses on strip adjacent to soybean field.

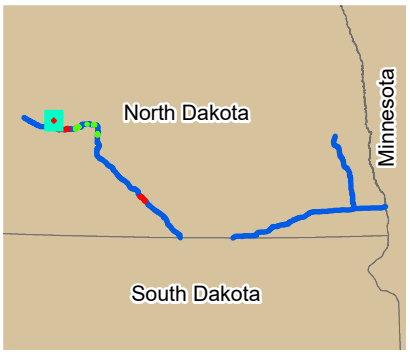


Appendix C –
2023 Dakota Skipper Survey Sites Midwest Carbon Express Project in North Dakota

2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



LEGEND

Legend

Survey Areas

- Unsuitable Habitat
- Likely Unsuitable
- Potentially Suitable

- Project Route 06/15/2023
- Milepost
- Property Parcel
- Survey Permission Denied
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

REVISIONS

Date:	Revised by:	Checked by:
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Figure Title:
2023 Dakota Skipper Survey Sites

Figure Number:
Appendix C

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
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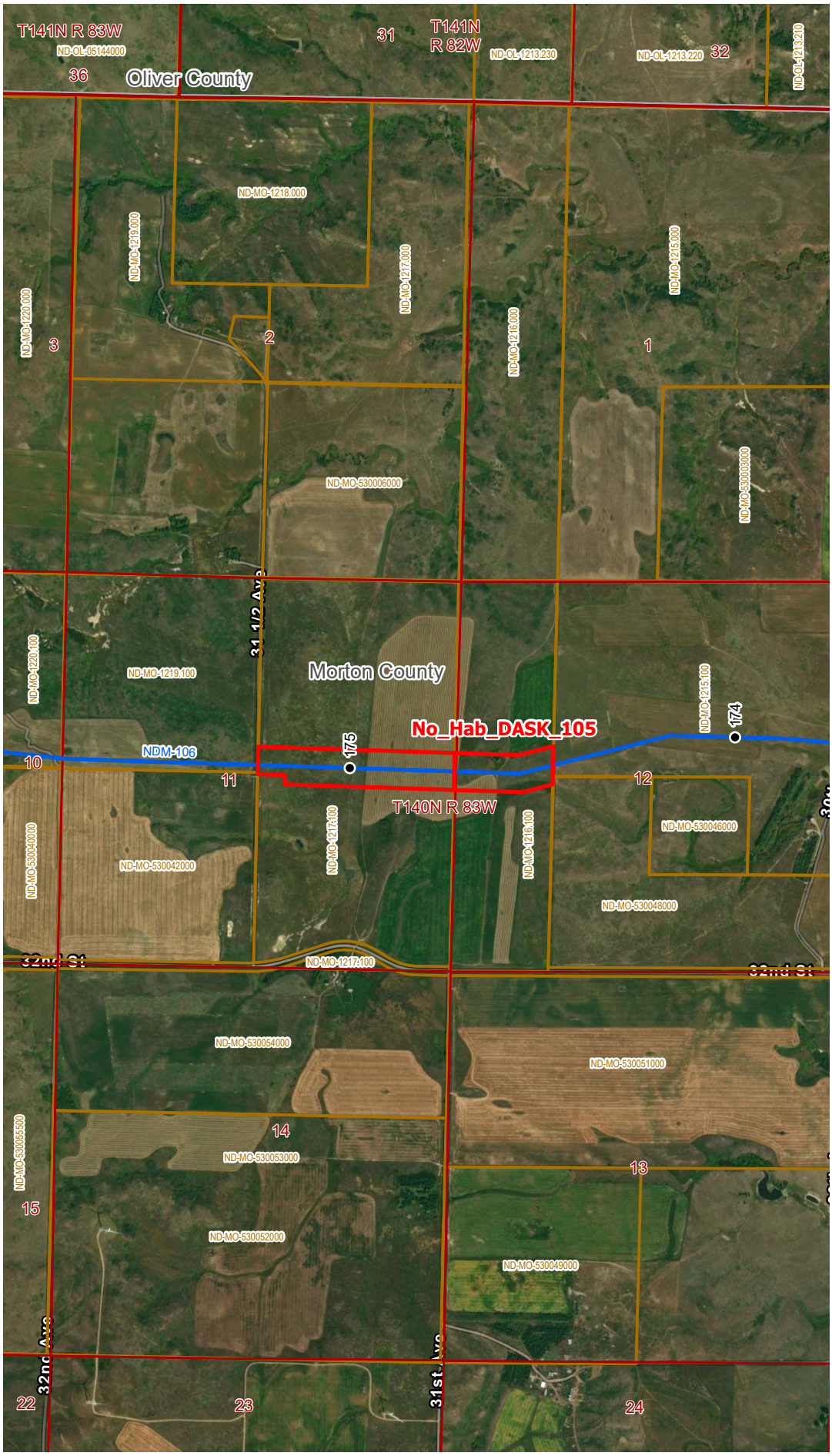
2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



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Sheet: C - 2, Sheet 2 of 10	**Drawing Number:** 1

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2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



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Sheet: C - 3 Sheet 3 of 10	**Drawing Number:** 1

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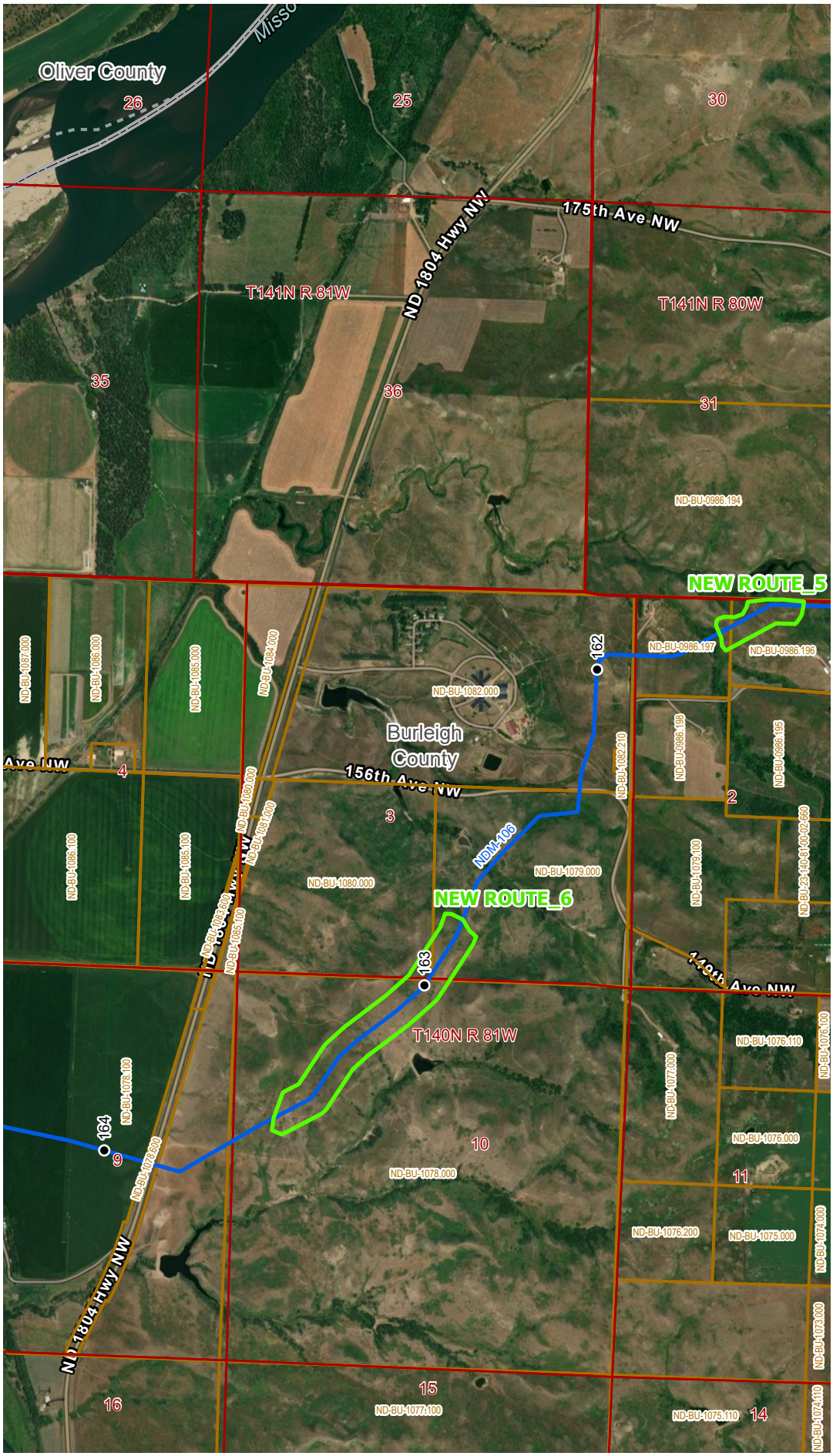
2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



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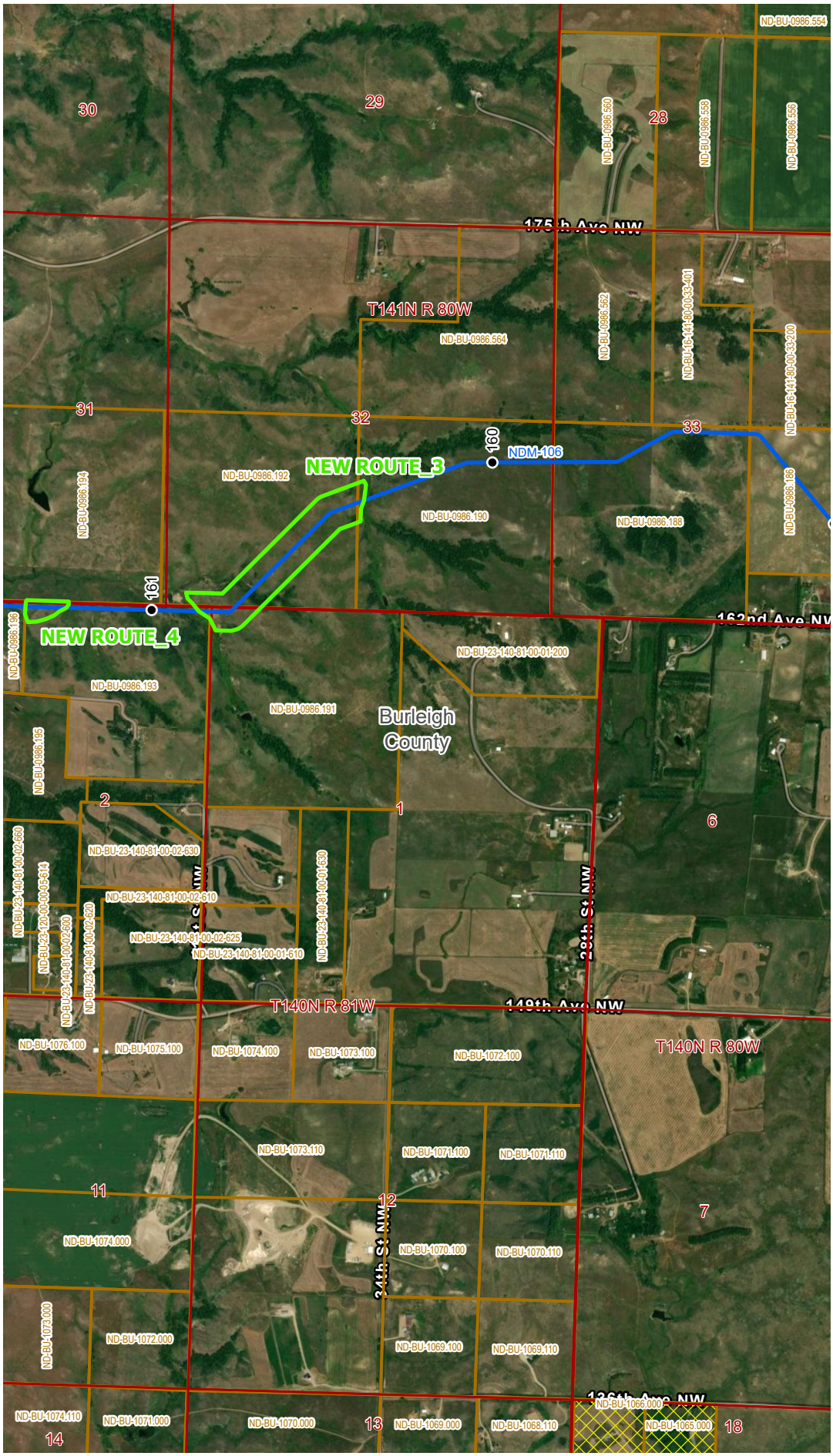
Sheet: C - 4 Sheet 4 of 10	**Drawing Number:** 1

2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



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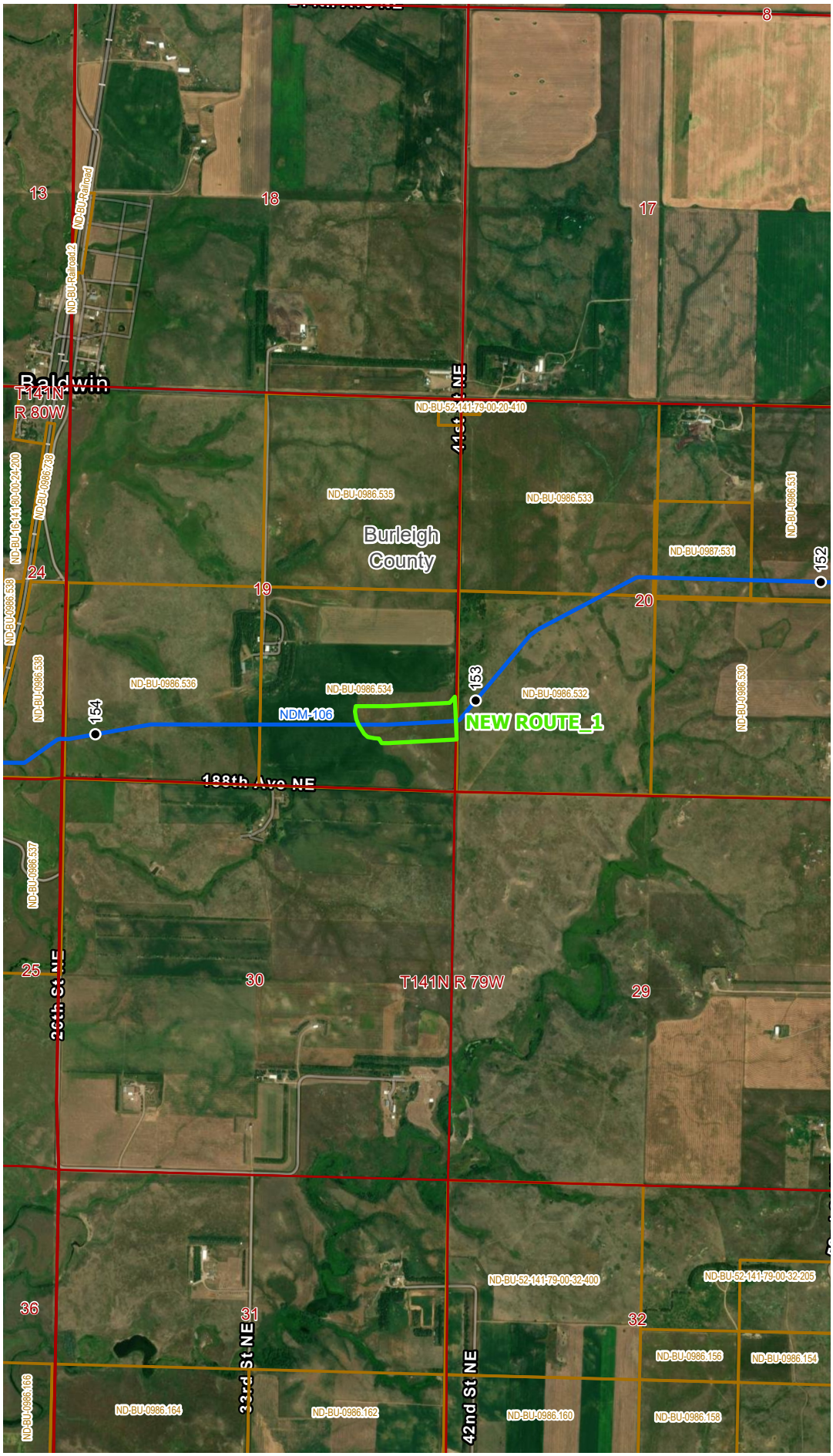
2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



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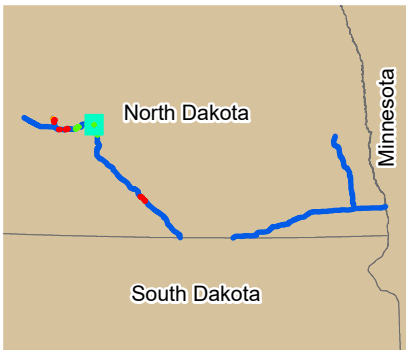
2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



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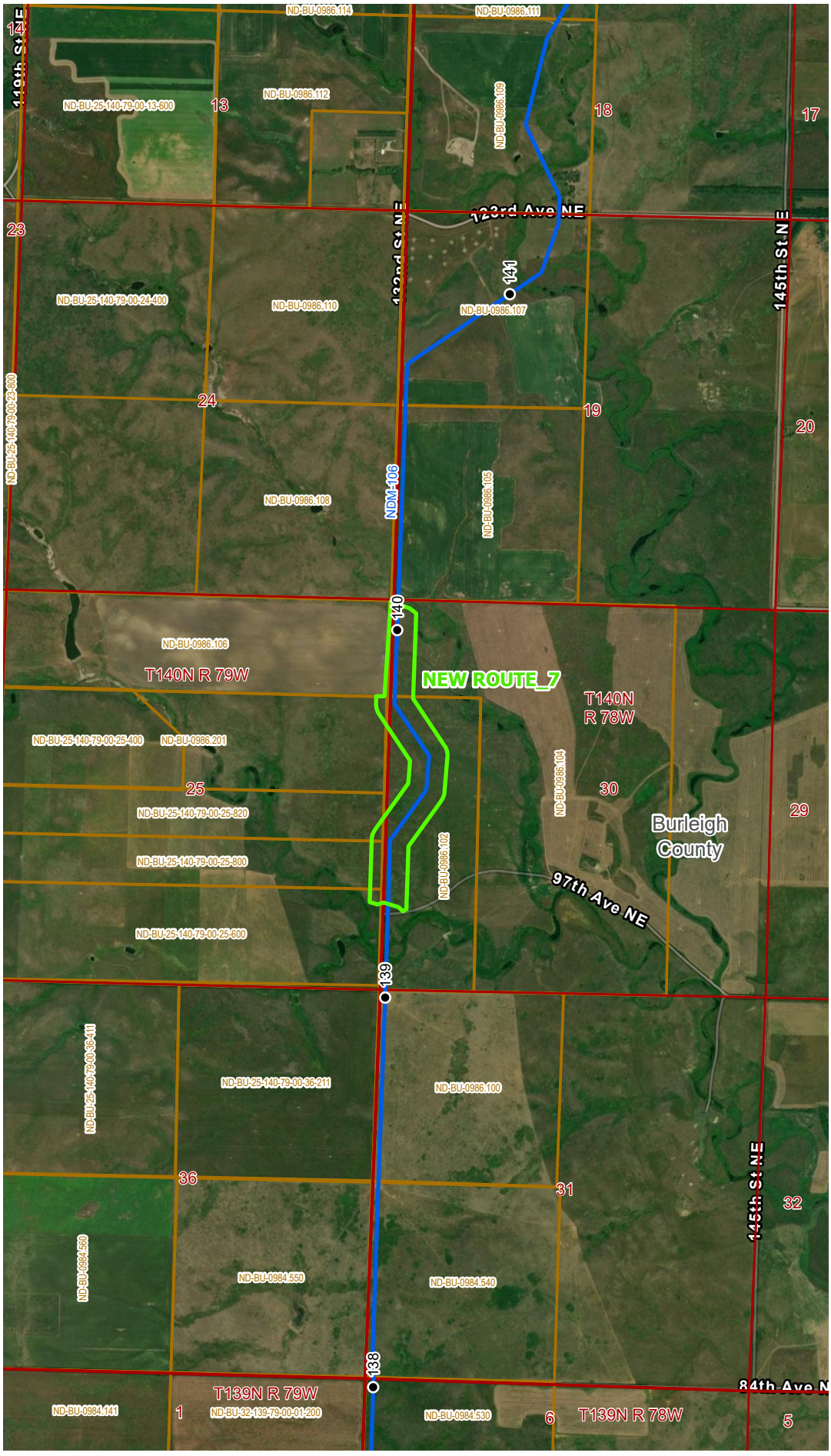
2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



LEGEND

Legend

Survey Areas

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- Likely Unsuitable
- Potentially Suitable

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Feet

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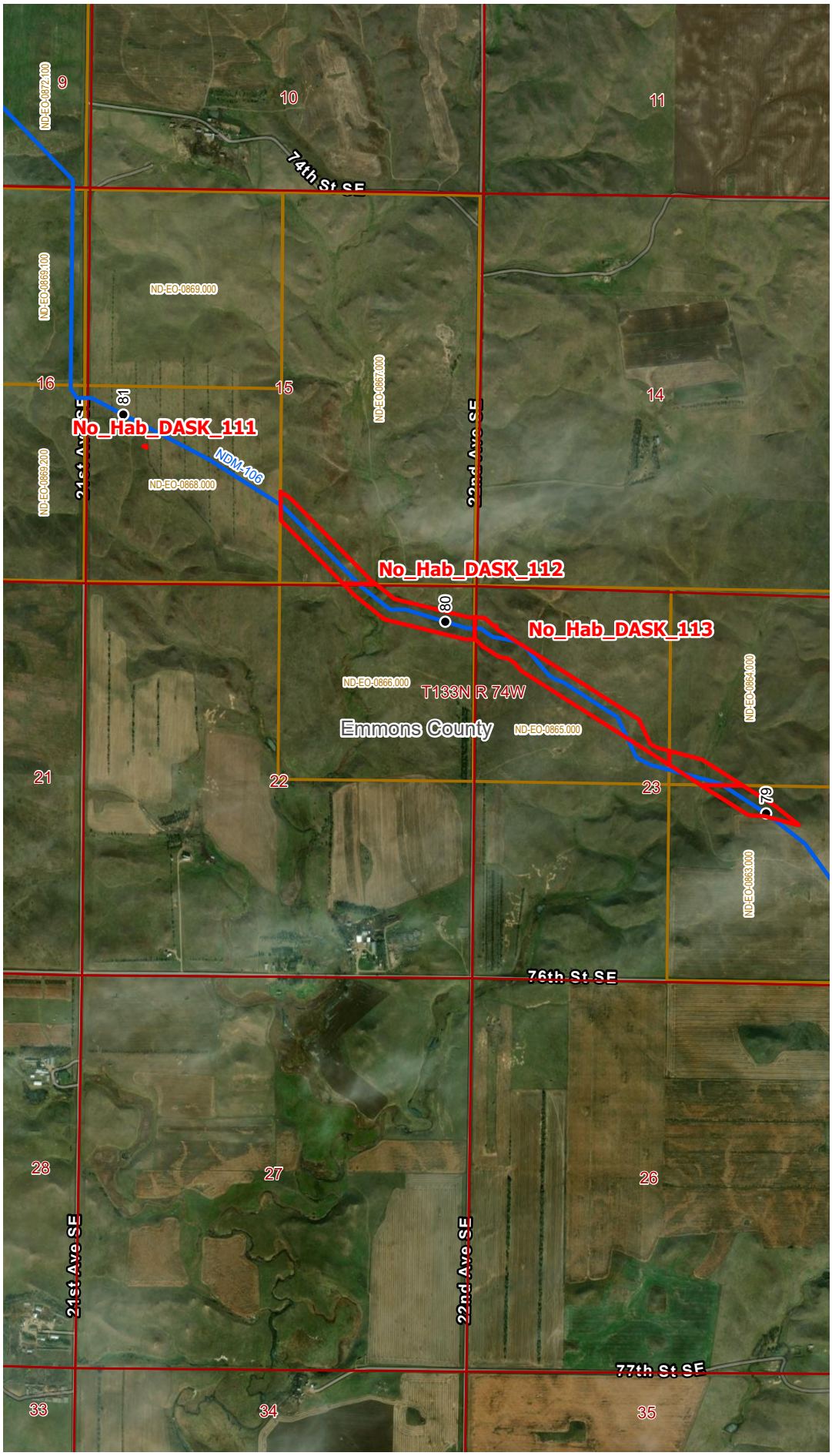
MCE23_NoDakPSC_DASK_Survey_Locations.mxd | 12/21/2023

2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



LEGEND

Legend

Survey Areas

- Unsuitable Habitat
- Likely Unsuitable
- Potentially Suitable

N

- Project Route 06/15/2023
- Milepost
- Property Parcel
- Survey Permission Denied
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

REVISIONS

Date:	Revised by:	Checked by:
Date:	Revised by:	Checked by:
Date:	Revised by:	Checked by:

PREPARED BY

Summit Carbon Solutions
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SUMMIT CARBON SOLUTIONS

MIDWEST CARBON EXPRESS PROJECT

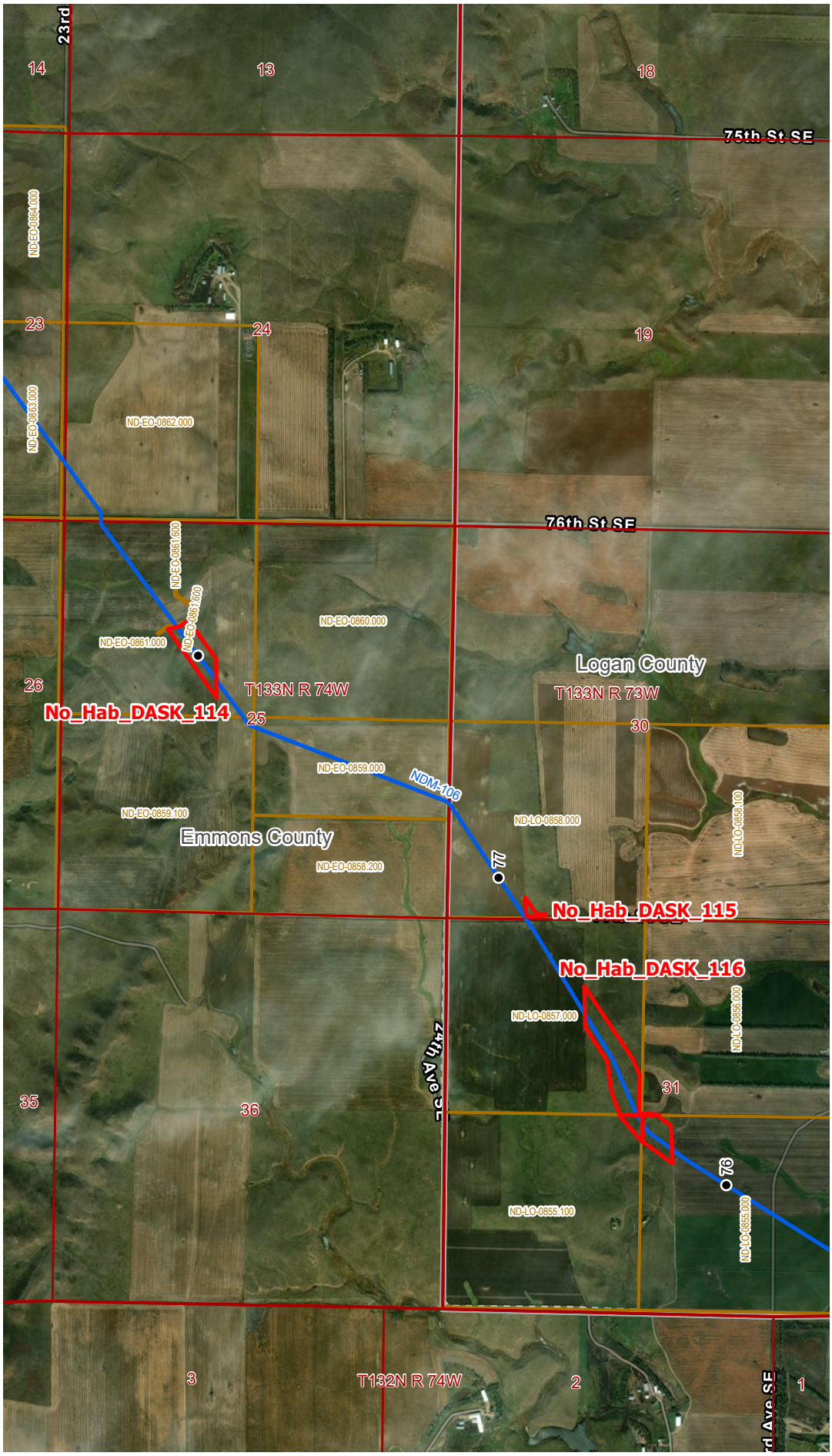
Figure Title:
2023 Dakota Skipper Survey Sites

Figure Number:
Appendix C

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: C - 9 Sheet 9 of 10	**Drawing Number:** 1

MCE23_NoDakPSC_DASK_Survey_Locations.mxd | 12/21/2023

2023 DAKOTA SKIPPER SURVEY SITES



VICINITY MAP



LEGEND

Legend

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0 1,000 2,000
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1:24,000	NAD 1983 UTM Zone 14N
Sheet: C - 10, Sheet 10 of 10	**Drawing Number:** 1

MCE23_NoDakPSC_DASK_Survey_Locations.mxd | 12/21/2023

Appendix D –
Northern Long-Eared Bat Wooded Areas, Habitat Components, Habitat Type, and Location within the Midwest Carbon Express ESA in North Dakota

Appendix D
Northern Long-Eared Bat Wooded Areas, Habitat Components, Habitat Type, and Location within the Midwest Carbon Express ESA in North Dakota

Route	Nearest Route Milepost	Wooded Area > 14 ac (a)	Canopy Cover > 50 % (b)	Stand Structure (c)	Water < 750m (d)	Habitat Code	Habitat Quality	Human Disturbance Proximal	Wooded Area < 1000 ft to Commuting Habitat	Wooded Area < 2.5 mi Forage/Roosting Habitat	Wooded Area Connected to Forage/Roosting Habitat	Wooded Area < 2.5 mi Mapped FWS NLEB Habitat	Wooded Area < 1000 ft Mapped FWS NLEB Habitat	Rationale for FWS Habitat Type	FWS Habitat Type	Wooded Area Size in ESA (ac)	Latitude	Longitude
NDM-106	201.24	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.43	47.059816	-101.614924
NDM-106	201.23	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.10	47.059073	-101.615062
NDM-106	200.69	No	No	Small	Yes	d	Very Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.97	47.056611	-101.604221
NDL-328	0.57	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	Yes	Yes	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.09	47.056207	-101.204742
NDM-106	200.62	No	No	Small	Yes	d	Very Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.26	47.055939	-101.603055
NDM-106	199.30	No	No	Small	Yes	d	Very Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.80	47.047174	-101.579918
NDM-106	198.75	No	No	Small	No	-	Very Low	No	Yes	No	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.23	47.044306	-101.56971
NDM-106	198.14	No	No	Small	Yes	d	Very Low	No	Yes	No	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.09	47.040095	-101.558397
NDM-106	197.79	No	No	Small	Yes	d	Very Low	No	Yes	No	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.15	47.036568	-101.554347
NDM-106	197.70	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.14	47.036322	-101.552458
NDM-106	153.02	No	No	Mixed	No	c	Very Low	Yes, road	No	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.35	47.015272	-100.727969
NDM-106	154.97	No	Yes	Mixed	No	b,c	Low	Yes	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	2.59	47.012733	-100.767755
NDM-106	155.08	No	No	Small	No	-	Very Low	Yes	Yes	No	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.23	47.012517	-100.770256
NDM-106	149.24	No	No	Mixed	No	c	Very Low	Yes, road	No	No	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	12.10	47.011834	-100.65315
NDM-106	156.43	No	Yes	Mixed	No	b,c	Low	No	No	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.53	47.011394	-100.795626
NDM-106	156.37	No	Yes	Mixed	No	b,c	Low	No	No	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.55	47.011378	-100.794321
NDM-106	156.49	No	Yes	Small	No	b	Very Low	No	No	Yes	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.21	47.011332	-100.796948
NDM-106	156.56	No	No	Mixed	No	c	Very Low	No	No	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.47	47.011303	-100.798279
NDM-106	156.62	No	Yes	Mixed	No	b,c	Low	No	No	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.45	47.011025	-100.799569
NDM-106	156.69	No	Yes	Mixed	No	b,c	Low	No	No	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.83	47.010574	-100.800921
NDM-106	159.33	No	No	Mixed	No	c	Very Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.98	46.990376	-100.82341
NDM-106	159.47	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	1.91	46.989671	-100.82646
NDM-106	160.01	Yes	Yes	Mixed	Yes	a,b,c,d	High	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	3.04	46.988928	-100.837405
NDM-106	160.73	No	No	Small	Yes	d	Very Low	No	No	Yes	No	Yes	Yes	Pure stand < 3 in dbh	Unsuitable	1.43	46.983637	-100.849965
NDM-106	160.97	No	No	Small	Yes	d	Very Low	No	No	Yes	No	Yes	Yes	Pure stand < 3 in dbh	Unsuitable	0.10	46.982988	-100.854651
NDM-106	161.03	No	No	Small	Yes	d	Very Low	No	No	Yes	No	Yes	Yes	Pure stand < 3 in dbh	Unsuitable	1.41	46.982799	-100.855962
NDM-106	160.90	No	No	Small	Yes	d	Very Low	No	No	Yes	No	Yes	Yes	Pure stand < 3 in dbh	Unsuitable	0.90	46.982614	-100.853234
NDM-106	161.69	No	No	Mixed	Yes	c,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	1.70	46.981664	-100.86937
NDM-106	183.74	No	Yes	Small	Yes	b,d	Low	Road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.02	46.981312	-101.283501
NDM-106	183.61	No	No	Large	Yes	c,d	Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.21	46.981172	-101.280658
NDM-106	187.96	No	Yes	Small	No	b	Very Low	No	No	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.16	46.980252	-101.372347
NDM-106	162.67	No	No	Mixed	Yes	c,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	1.12	46.972837	-100.88096
NDM-106	166.30	No	No	Mixed	Yes	c,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	1.93	46.964098	-100.949841
NDM-106	165.12	Yes	Yes	Mixed	Yes	a,b,c,d	High	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	2.25	46.963691	-100.924853
NDM-106	165.24	Yes	No	Mixed	Yes	a,c,d	Moderate	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	4.50	46.963668	-100.927453
NDM-106	164.37	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.98	46.963011	-100.909043
NDM-106	170.41	No	No	Small	Yes	d	Very Low	No	Yes	Yes	No	Yes	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	1.21	46.959694	-101.027431
NDM-106	142.65	No	No	Small	Yes	d	Very Low	No	No	No	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.23	46.958032	-100.575652
NDM-106	170.58	No	No	Small	Yes	d	Very Low	No	Yes	Yes	No	Yes	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	0.01	46.957967	-101.029463
NDM-106	174.63	No	No	Small	Yes	d	Very Low	No	No	Yes	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.20	46.957845	-101.111588
NDM-106	170.75	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	Yes	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	9.35	46.956639	-101.032883
NDM-106	142.39	No	No	Small	Yes	d	Very Low	No	No	No	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.26	46.954428	-100.573873
NDM-106	142.26	No	Yes	Mixed	Yes	b,c,d	Moderte	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.55	46.952645	-100.57324
NDM-106	141.31	No	No	Mixed	Yes	c,d	Low	Yes, road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	2.24	46.939862	-100.572725
NDM-106	134.83	No	No	Mixed	Yes	c,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	1.70	46.852061	-100.583352
NDM-106	133.86	No	Yes	Small	Yes	b,d	Low	Yes	Yes	Yes	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.40	46.838901	-100.580732
NDM-106	133.22	No	Yes	Small	No	b	Very Low	No	Yes	Yes	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.08	46.838793	-100.567516
NDM-106	133.00	No	Yes	Small	No	b	Very Low	Highway	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.85	46.835622	-100.56628
NDL-324	4.80	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.37	46.834985	-97.2857
NDL-324	4.85	No	No	Small	Yes	d	Very Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.07	46.834162	-97.285447
NDL-324	4.97	No	No	Small	Yes	d	Very Low	No	Yes	Yes	No	Yes	Yes	Pure stand < 3 in dbh	Unsuitable	0.11	46.832485	-97.285733
NDM-106	132.57	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	3.40	46.829432	-100.566366
NDL-324	5.23	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.48	46.828692	-97.285639
NDM-106	131.80	No	Yes	Small	Yes	b,d	Low	Road	Yes	Yes	Yes	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.80	46.821965	-100.561681
NDL-324	6.47	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.35	46.818652	-97.274028
NDM-106	131.10	No	Yes	Small	Yes	b,d	Low	No	No	Yes	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.08	46.813292	-100.554827
NDM-106	131.14	No	Yes	Small	Yes	b,d	Low	No	No	Yes	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.08	46.813214	-100.555833
NDL-324	7.67	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	3.20	46.810638	-97.25964
NDM-106	130.72	No	No	Large	No	c	Very Low	Road	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.10	46.808572	-100.552404
NDM-106	129.02	No	Yes	Small	No	b	Very Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.57	46.788481	-100.570854
NDM-106	128.91	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.04	46.787957	-100.572301
NDM-106	128.22	No	No	Small	No	-	Very Low	Road	Yes	Yes	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.31	46.782577	-100.584117
NDM-106	127.93	No	No	Small	Yes	d	Very Low	Road	Yes	Yes	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.16	46.780098	-100.587711
NDM-106	127.57	No	Yes	Small	Yes	b,d	Low	Yes	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.72	46.774908	-100.5874
NDM-106	126.27	No	No	Small	Yes	d	Very Low	No	No	Yes	No	No	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	0.69	46.756656	-100.584569
NDM-106	126.08	No	No	Small	Yes	d	Very Low	No	No	Yes	No	No	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	0.62	46.753726	-100.584354
NDL-324	13.25	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.41	46.750511	-97.209133
NDL-324	13.60	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.49	46.745647	-97.206722
NDL-324	13.63	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	1.07	46.745218	-97.206696
NDM-106	123.75	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	2.29	46.720094	-100.584697
NDM-106	123.29	No	No	Small	Yes	d	Very Low	No	No	Yes	No	No	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	1.02	46.714194	-100.581076
NDM-106	122.95	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	No	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	0.61	46.711395	-100.575356
NDM-106	122.90	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	No	No	Pure stand < 3 in dbh	Unsuitable	0.36	46.711127	-100.574425
NDM-106	122.83	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	No	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	1.37	46.710233	-100.573567
NDM-106	122.66	No	Yes	Small	Yes	b,d	Low	Road	Yes	Yes	No	No	No	Pure stand < 3 in dbh (Shearg, Pruame)	Unsuitable	0.57	46.708637	-100.570845
NDM-106	122.21	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.37	46.703728	-100.564429
NDM-106	122.14	No	No	Small	Yes	d	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.03	46.702683	-100.563982
NDM-106	122.08	No	No	Small	Yes	d	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.58	46.702384	-100.562908
NDM-106	122.04	No	No	Small	Yes	d	Very Low	No	Yes	Yes	Yes	No	No	Pure stand < 3 in dbh	Unsuitable	0.36	46.701457	-100.562946
NDM-106	121.98	No	No	Small	Yes	d	Very Low	No	Yes	Yes	Yes	No	No	Pure stand < 3 in dbh	Unsuitable	0.30	46.70077	-100.561958
NDM-106	121.84	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.40	46.699781	-100.559475

Appendix D
Northern Long-Eared Bat Wooded Areas, Habitat Components, Habitat Type, and Location within the Midwest Carbon Express ESA in North Dakota

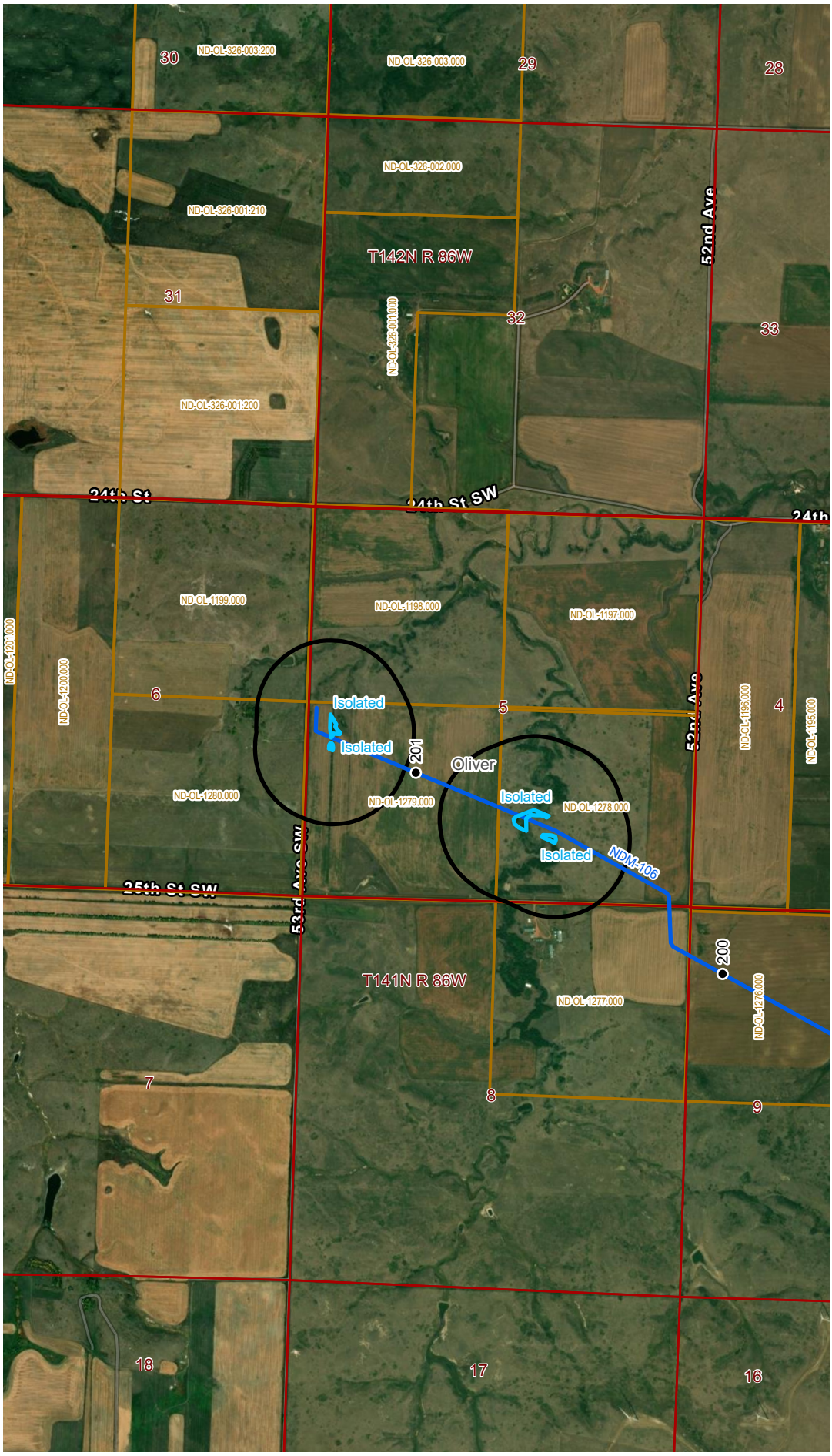
Route	Nearest Route Milepost	Wooded Area > 14 ac (a)	Canopy Cover > 50 % (b)	Stand Structure (c)	Water < 750m (d)	Habitat Code	Habitat Quality	Human Disturbance Proximal	Wooded Area < 1000 ft to Commuting Habitat	Wooded Area < 2.5 mi Forage/Roosting Habitat	Wooded Area Connected to Forage/Roosting Habitat	Wooded Area < 2.5 mi Mapped FWS NLEB Habitat	Wooded Area < 1000 ft Mapped FWS NLEB Habitat	Rationale for FWS Habitat Type	FWS Habitat Type	Wooded Area Size in ESA (ac)	Latitude	Longitude
NDM-106	121.71	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.42	46.698667	-100.557365
NDM-106	121.56	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.27	46.696649	-100.556007
NDM-106	121.48	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.47	46.695667	-100.555012
NDM-106	121.42	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.29	46.694842	-100.554406
NDM-106	121.35	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.48	46.694159	-100.553298
NDM-106	121.22	No	No	Small	No	-	Very Low	No	Yes	Yes	Yes	No	No	Pure stand < 3 in dbh	Unsuitable	0.16	46.692796	-100.551638
NDM-106	121.08	No	No	Small	No	-	Very Low	No	Yes	Yes	Yes	No	No	Pure stand < 3 in dbh	Unsuitable	0.05	46.691622	-100.549023
NDM-106	121.00	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.13	46.690457	-100.54843
NDM-106	120.95	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.83	46.689783	-100.547905
NDM-106	120.84	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.38	46.688764	-100.54622
NDM-106	120.77	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.62	46.688015	-100.545135
NDM-106	120.73	No	No	Small	No	-	Very Low	No	Yes	Yes	Yes	No	No	Pure stand < 3 in dbh	Unsuitable	0.03	46.687212	-100.545049
NDM-106	118.56	No	No	Small	Yes	d	Very Low	Road	Yes	Yes	No	No	No	Pure stand < 3 in dbh	Unsuitable	0.45	46.677807	-100.504544
NDL-324	20.80	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.48	46.65685	-97.157294
NDM-106	115.87	No	No	Small	No	-	Very Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.50	46.653596	-100.461009
NDM-106	115.76	No	No	Small	No	-	Very Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.45	46.652651	-100.459001
NDM-106	115.65	No	No	Small	No	-	Very Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.46	46.651787	-100.457165
NDL-324	21.17	No	Yes	Mixed	No	b,c	Low	No	No	Yes	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.40	46.651418	-97.157252
NDL-324	21.62	No	Yes	Mixed	No	b,c	Low	Road	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	0.81	46.644974	-97.157195
NDL-324	21.74	No	Yes	Mixed	No	b,c	Low	Road	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	1.20	46.643256	-97.157119
NDL-324	21.81	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	0.15	46.642152	-97.15584
NDM-106	114.75	No	No	Small	Yes	d	Very Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.92	46.641777	-100.445928
NDL-324	21.84	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	0.53	46.641753	-97.156917
NDL-324	22.29	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	5.60	46.635179	-97.156554
NDL-324	23.44	Yes	Yes	Mixed	No	a,b,c	Moderate	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	7.67	46.620626	-97.148533
NDL-324	23.61	Yes	Yes	Mixed	No	a,b,c	Moderate	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	1.24	46.618069	-97.14871
NDL-324	23.84	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	5.22	46.61481	-97.148521
NDL-324	24.24	No	No	Small	No	-	Very Low	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	0.09	46.608953	-97.148011
NDL-324	25.25	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.74	46.599785	-97.132744
NDL-324	25.41	No	No	Mixed	No	c	Very Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.03	46.598507	-97.129858
NDL-324	25.55	No	No	Mixed	No	c	Very Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.10	46.597861	-97.12747
NDL-324	25.66	No	No	Mixed	No	c	Very Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.09	46.597238	-97.125207
NDL-324	25.72	No	No	Mixed	No	c	Very Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.19	46.597007	-97.124064
NDL-324	25.81	No	No	Mixed	No	c	Very Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.19	46.596432	-97.122345
NDL-324	26.14	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.13	46.59348	-97.116434
NDL-324	26.19	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.23	46.593295	-97.115512
NDL-324	26.41	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	1.00	46.592736	-97.110985
NDL-324	26.78	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	1.21	46.590123	-97.104989
NDM-106	108.53	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	2.55	46.589226	-100.355694
NDM-106	107.74	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.40	46.579121	-100.35176
NDL-324	27.92	Yes	Yes	Mixed	Yes	a,b,c,d	High	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	13.95	46.575385	-97.096162
NDL-324	28.24	Yes	Yes	Mixed	Yes	a,b,c,d	High	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	10.05	46.571583	-97.092142
NDL-324	28.54	No	No	Mixed	Yes	c,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.48	46.568104	-97.088605
NDL-324	28.79	No	No	Mixed	Yes	c,d	Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	2.32	46.56487	-97.086058
NDL-324	29.03	No	No	Mixed	No	c	Very Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	0.10	46.561613	-97.084026
NDL-324	29.22	No	No	Mixed	No	c	Very Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	2.90	46.559343	-97.08195
NDL-324	30.00	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.47	46.549368	-97.074204
NDL-324	30.28	No	Yes	Small	No	b	Very Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.14	46.545476	-97.07407
NDL-324	30.34	No	Yes	Small	No	b	Very Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.41	46.54468	-97.07391
NDL-324	30.93	No	No	Small	No	-	Very Low	Road	Yes	Yes	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.09	46.536096	-97.073546
NDL-324	31.05	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.20	46.534358	-97.073585
NDL-324	31.75	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.16	46.525713	-97.076731
NDL-324	32.06	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.81	46.521325	-97.075991
NDM-106	101.98	No	Yes	Small	No	b	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.31	46.518646	-100.271333
NDM-106	100.32	No	Yes	Small	Yes	b,d	Low	No	No	No	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.35	46.502204	-100.246561
NDL-324	34.61	No	No	Small	No	-	Very Low	No	Yes	Yes	No	No		Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.04	46.489091	-97.06138
NDL-324	34.86	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No		Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.30	46.485669	-97.061548
NDL-324	35.17	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	4.24	46.481423	-97.061359
NDL-324	36.24	No	No	Small	No	-	Very Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.04	46.466084	-97.061387
NDL-324	36.65	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	4.94	46.460197	-97.062166
NDL-324	37.17	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.50	46.452612	-97.062295
NDL-324	37.39	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.91	46.449761	-97.061113
NDL-324	38.48	No	Yes	Small	No	b	Very Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.77	46.434107	-97.06104
NDM-106	92.49	No	Yes	Small	No	b	Very Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.42	46.432176	-100.128324
NDL-324	38.79	No	Yes	Small	No	b	Very Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.79	46.429538	-97.061376
NDL-324	39.45	No	Yes	Small	No	b	Very Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.19	46.420049	-97.060642
NDL-324	40.44	No	Yes	Small	No	b	Very Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	10.33	46.405732	-97.060954
NDL-324	41.09	No	Yes	Small	No	b	Very Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.00	46.396294	-97.060735
NDL-324	41.69	No	Yes	Small	No	b	Very Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.58	46.387712	-97.058869
NDM-106	83.93	No	No	Small	No	-	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	2.48	46.367115	-100.002583
NDM-106	83.52	No	Yes	Mixed	No	b,c	Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.45	46.361149	-100.001833
NDL-324	43.95	No	Yes	Mixed	No	b,c	Low	Yes, road	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	3.24	46.355915	-97.052433
NDM-106	81.03	No	No	Small	No	-	Very Low	No	No	No	No	Yes	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.47	46.333111	-99.978632
NDM-106	80.97	No	No	Small	No	-	Very Low	No	No	No	No	Yes	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.19	46.333036	-99.977378
NDL-324	46.08	No	No	Large	No	c	Very Low	No	No	No	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.15	46.332779	-97.040107
NDM-106	80.89	No	No	Small	No	-	Very Low	No	No	No	No	Yes	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.22	46.332291	-99.976061
NDM-106	80.82	No	No	Small	No	-	Very Low	No	No	No	No	Yes	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.27	46.331854	-99.974739
NDM-106	80.76	No	No	Small	No	-	Very Low	No	No	No	No	Yes	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.19	46.331622	-99.97347
NDM-106	80.68	No	No	Small	No	-	Very Low	No	No	No	No	Yes	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.28	46.330883	-99.972137
NDL-324	47.81	No	Yes	Small	Yes	b,d	Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	2.43	46.307712	-97.040039
NDL-324	48.23	No	Yes	Small	Yes	b,d	Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	2.71	46.301687	-97.03996

Appendix D
Northern Long-Eared Bat Wooded Areas, Habitat Components, Habitat Type, and Location within the Midwest Carbon Express ESA in North Dakota

Route	Nearest Route Milepost	Wooded Area > 14 ac (a)	Canopy Cover > 50 % (b)	Stand Structure (c)	Water < 750m (d)	Habitat Code	Habitat Quality	Human Disturbance Proximal	Wooded Area < 1000 ft to Commuting Habitat	Wooded Area < 2.5 mi Forage/Roosting Habitat	Wooded Area Connected to Forage/Roosting Habitat	Wooded Area < 2.5 mi Mapped FWS NLEB Habitat	Wooded Area < 1000 ft Mapped FWS NLEB Habitat	Rationale for FWS Habitat Type	FWS Habitat Type	Wooded Area Size in ESA (ac)	Latitude	Longitude
NDL-324	48.61	No	No	Small	Yes	d	Very Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.38	46.296788	-97.04186
NDL-324	50.07	No	Yes	Mixed	No	b,c	Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	4.52	46.275646	-97.041781
NDM-106	71.59	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.12	46.24404	-99.843707
NDM-106	71.48	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.32	46.243065	-99.841744
MNL-321	28.24	Yes	Yes	Mixed	Yes	a,b,c,d	High	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	1.88	46.213018	-96.590488
MNL-321	28.36	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.68	46.212987	-96.593119
MNL-321	28.53	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.71	46.212871	-96.596671
NDL-323	16.49	No	Yes	Small	No	b	Very Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.11	46.203542	-97.000965
NDL-323	15.47	No	Yes	Small	No	b	Very Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.64	46.203517	-96.979985
NDL-323	4.28	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.88	46.2035	-96.746771
NDL-323	4.25	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	0.62	46.203491	-96.746137
NDL-323	1.09	No	Yes	Small	No	b	Very Low	Road	No	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.26	46.202708	-96.680433
NDM-106	66.76	No	Yes	Small	Yes	b,d	Low	Road	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.26	46.200186	-99.766745
NDT-211	3.62	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	2.33	46.192497	-97.081258
NDT-211	5.81	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.49	46.191227	-97.126159
NDT-211	14.17	No	No	Mixed	Yes	c,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	1.17	46.190406	-97.299046
NDT-211	13.96	No	No	Mixed	Yes	c,d	Low	No	Yes	Yes	Yes	Yes	Yes	Suitable connected NLEB habitat	Suitable	8.25	46.190379	-97.294646
NDT-211	14.77	No	Yes	Mixed	No	b,c	Low	No	Yes	Yes	Yes	Yes	No	Suitable connected NLEB habitat	Suitable	1.43	46.188639	-97.311135
NDT-211	16.28	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.72	46.186154	-97.341952
NDT-211	16.14	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.90	46.18583	-97.339015
NDT-211	17.95	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.11	46.184648	-97.376341
NDT-211	22.79	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	3.16	46.181926	-97.476634
NDT-211	25.94	No	Yes	Small	Yes	b,d	Low	Road	Yes	No	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.96	46.181415	-97.538397
NDT-211	27.72	No	Yes	Mixed	Yes	b,c,d	Moderate	No	No	No	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.27	46.180049	-97.575054
NDT-211	25.10	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.11	46.178952	-97.521688
NDT-211	32.82	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.04	46.155396	-97.669021
NDT-211	32.92	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.41	46.155079	-97.671084
NDT-211	33.09	No	Yes	Small	Yes	b,d	Low	Road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.62	46.154013	-97.674172
NDM-106	59.67	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.21	46.142156	-99.649351
NDM-106	59.53	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.35	46.14034	-99.649196
NDM-106	59.40	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.16	46.138493	-99.649207
NDT-211	35.07	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.33	46.136704	-97.706571
NDT-211	37.68	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.22	46.131534	-97.758194
NDT-211	37.17	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.76	46.131414	-97.747456
NDT-211	38.18	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.60	46.128734	-97.767734
NDT-211	38.78	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.30	46.126161	-97.779589
NDT-211	39.36	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.30	46.124336	-97.790413
NDT-211	39.33	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.38	46.123862	-97.789733
NDT-211	39.70	No	Yes	Large	Yes	b,c,d	Moderate	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.70	46.122661	-97.797211
NDT-211	39.84	No	Yes	Small	Yes	b,d	Low	Road	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.17	46.122453	-97.80016
NDT-211	40.33	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.29	46.118824	-97.809072
NDM-106	56.03	No	Yes	Small	No	b	Very Low	No	Yes	No	No	Yes	No	Pure stand < 3 in dbh	Unsuitable	0.73	46.11032	-99.606894
NDM-106	55.31	No	Yes	Small	No	b	Very Low	Road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.18	46.099988	-99.604539
NDM-106	55.31	No	Yes	Small	No	b	Very Low	Road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.10	46.099984	-99.605338
NDM-106	55.25	No	Yes	Small	No	b	Very Low	Yes	Yes	No	No	No	No	Pure stand < 3 in dbh	Unsuitable	0.22	46.099053	-99.60457
NDT-211	49.14	No	Yes	Small	No	b	Very Low	Road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.91	46.065529	-97.957694
NDT-211	49.26	No	Yes	Small	No	b	Very Low	Road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.30	46.065434	-97.960081
NDT-211	50.99	No	No	Small	Yes	d	Very Low	Road	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.21	46.059167	-97.986733
NDT-211	51.07	No	No	Small	Yes	d	Very Low	Road	No	No	No	No	No	Pure stand < 3 in dbh	Unsuitable	1.17	46.05901	-97.988238
NDT-211	52.10	No	No	Small	Yes	d	Very Low	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.65	46.058904	-98.009711
NDT-211	51.46	No	Yes	Small	Yes	b,d	Low	No	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.06	46.058884	-97.996438
NDT-211	51.17	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.64	46.058759	-97.990282
NDT-211	54.55	No	Yes	Mixed	Yes	b,c,d	Moderate	Yes, road	No	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.20	46.052886	-98.056956
NDT-211	55.74	No	Yes	Mixed	Yes	b,c,d	Moderate	Yes, road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.32	46.051658	-98.080581
NDT-211	55.19	No	Yes	Mixed	Yes	b,c,d	Moderate	Yes, road	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.15	46.051592	-98.070191
NDT-211	56.75	No	Yes	Mixed	Yes	b,c,d	Moderate	Yes	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.45	46.043392	-98.090246
NDT-211	61.07	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	2.37	46.03006	-98.162535
NDT-211	64.43	No	No	Small	Yes	d	Very Low	No	No	Yes	No	Yes	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.09	46.000071	-98.215323
NDT-211	64.93	No	No	Small	Yes	d	Very Low	No	No	Yes	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.06	45.998598	-98.225572
NDM-106	45.99	No	No	Small	Yes	d	Very Low	No	No	No	No	No	No	Individual trees > 1000 ft to forest/wooded area	Unsuitable	0.03	45.998516	-99.490748
NDT-211	68.81	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	No	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.71	45.993452	-98.303865
NDT-211	66.02	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	0.33	45.993432	-98.24643
NDT-211	66.14	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	Yes	No	No	Suitable connected NLEB habitat	Suitable	0.26	45.993296	-98.248976
NDT-211	66.49	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.18	45.993062	-98.256124
NDT-211	67.49	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.66	45.991777	-98.276815
NDT-211	80.97	No	Yes	Mixed	Yes	b,c,d	Moderate	Road	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	1.45	45.958951	-98.529088
NDT-211	80.20	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.63	45.958761	-98.513145
NDT-211	80.11	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.38	45.958739	-98.511168
NDT-211	76.61	Yes	No	Small	Yes	a,d	Low	No	Yes	No	No	Yes	Yes	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.03	45.958396	-98.43955
NDT-211	76.67	No	Yes	Mixed	Yes	b,c,d	Moderate	No	Yes	No	No	Yes	Yes	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.54	45.958153	-98.440771
NDT-211	77.80	No	Yes	Large	Yes	b,c,d	Moderate	No	No	No	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.17	45.957188	-98.463659
NDT-211	81.96	No	Yes	Mixed	Yes	b,c,d	Moderate	No	No	Yes	No	No	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.05	45.955678	-98.547817
NDT-211	87.19	No	Yes	Small	Yes	b,d	Low	No	No	Yes	No	Yes	No	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.17	45.953691	-98.6552
NDT-211	83.44	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	No	No	Pure stand < 3 in dbh	Unsuitable	0.15	45.953565	-98.577928
NDT-211	83.21	No	Yes	Small	Yes	b,d	Low	No	Yes	No	No	No	No	Pure stand < 3 in dbh	Unsuitable	0.70	45.953516	-98.573283
NDT-211	89.09	No	Yes	Small	Yes	b,d	Low	No	Yes	Yes	No	Yes	Yes	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.19	45.9411	-98.688552
NDT-211	89.30	No	Yes	Small	Yes	b,d	Low	Road	Yes	Yes	No	Yes	Yes	Wooded area > 1000 ft forest/wooded area & unconnected	Isolated	0.14	45.939126	-98.691872

Appendix E –
Northern Long-Eared Bat Habitat Assessment Locations in North Dakota

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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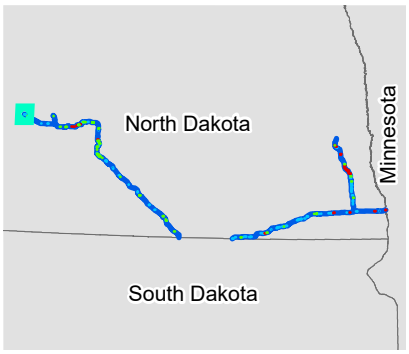

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

REVISIONS

Date:	Revised by:	Checked by:
Date:	Revised by:	Checked by:
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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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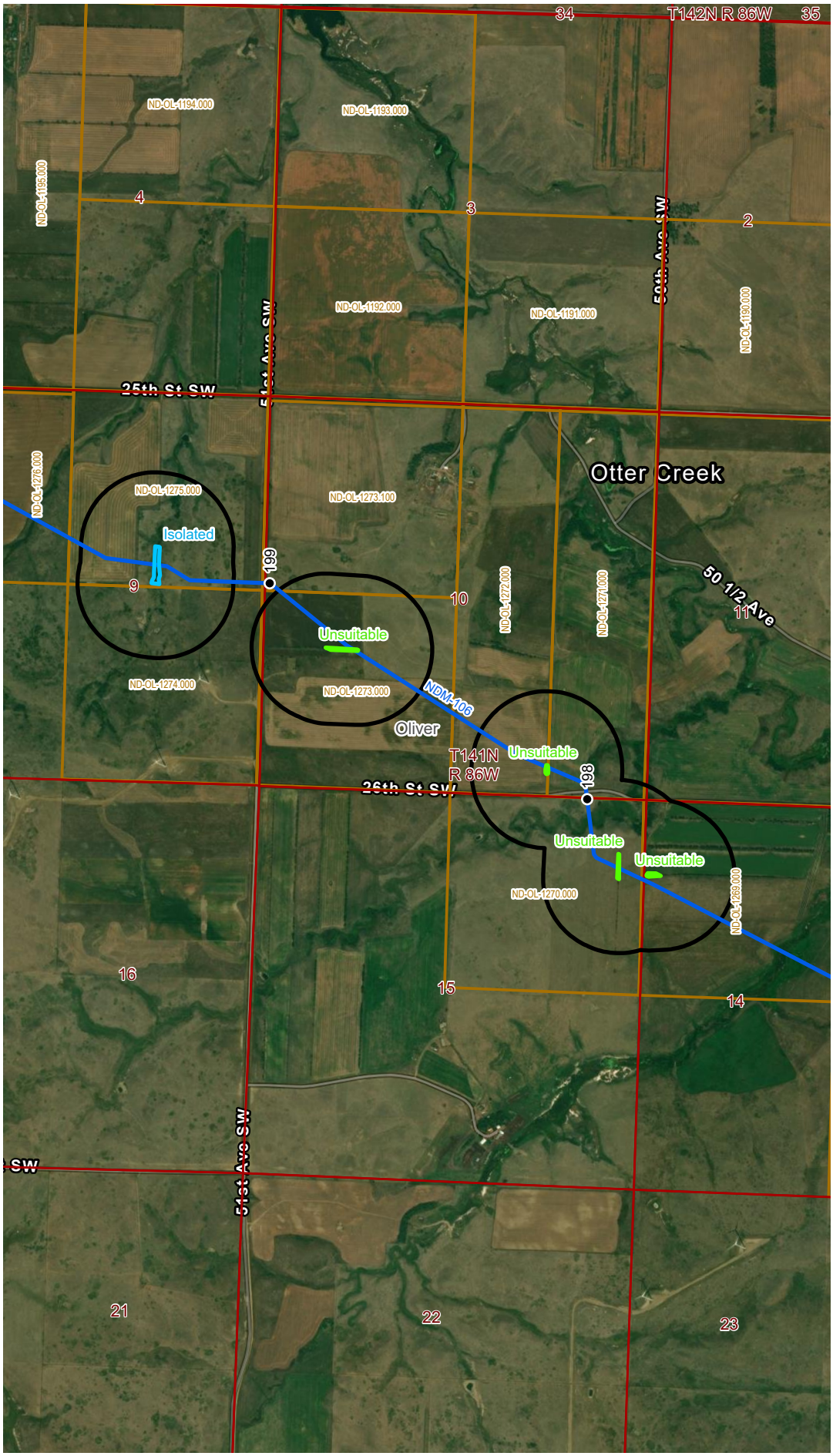
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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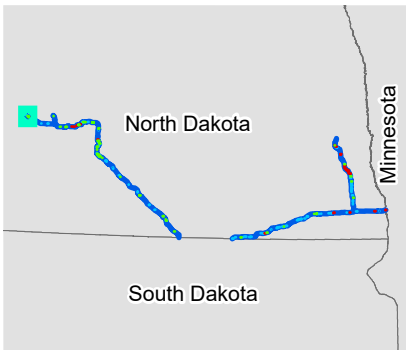

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FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
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- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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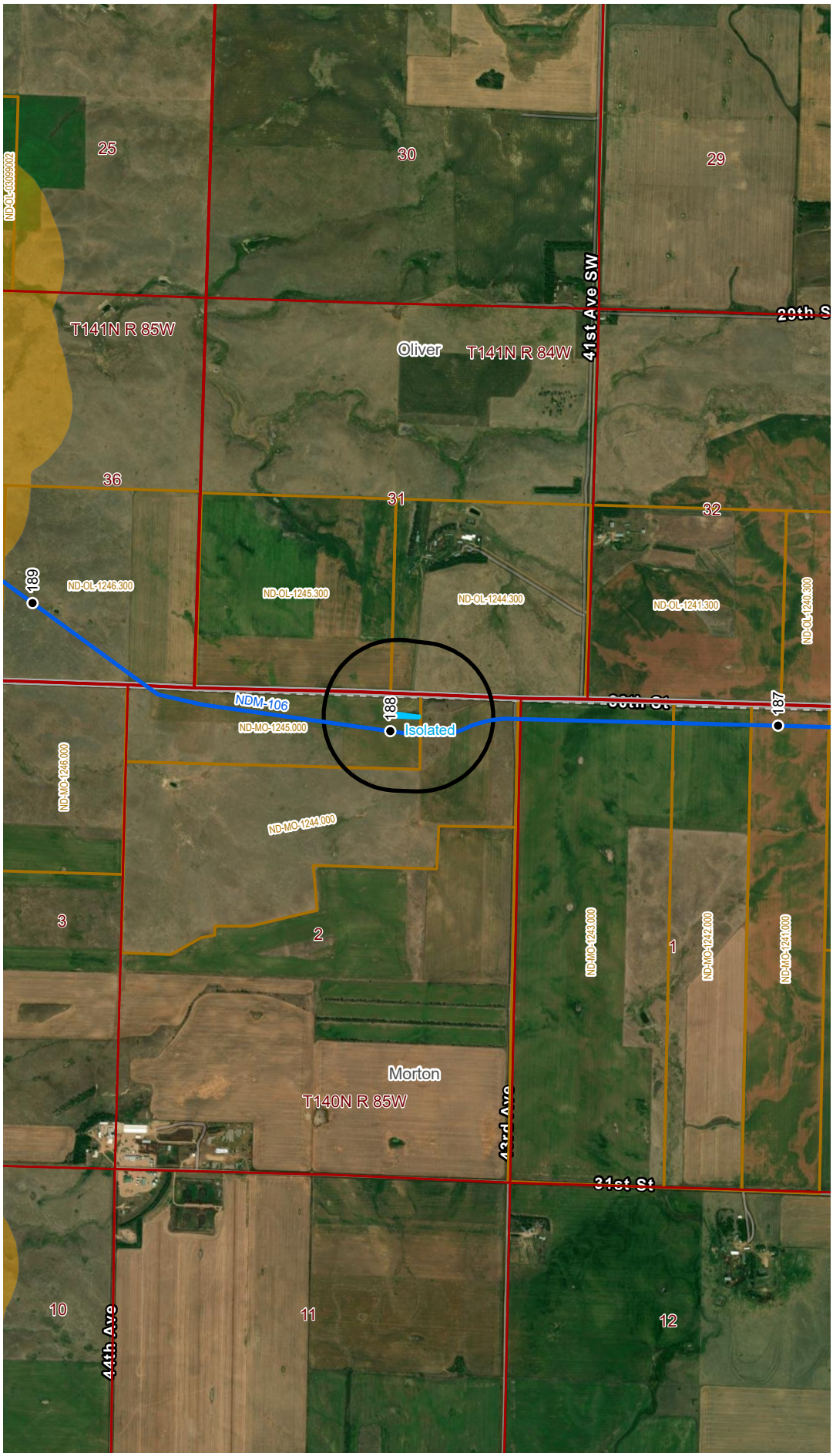
MC233_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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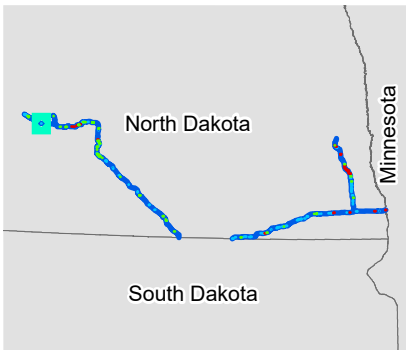

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

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- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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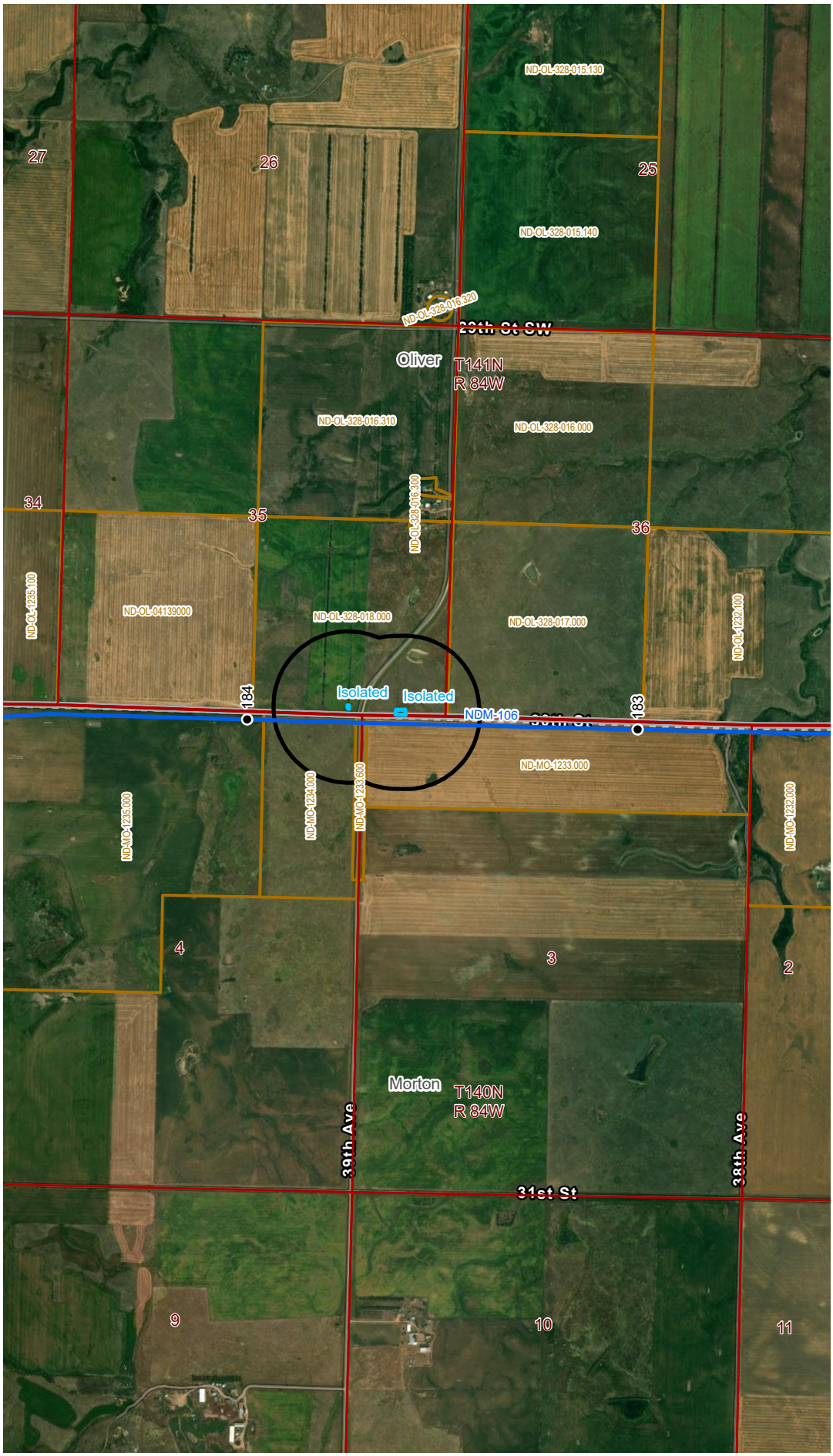
MC233_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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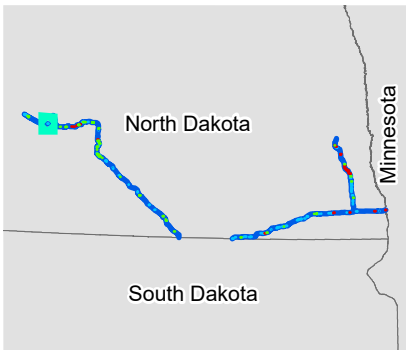

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
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0 1,000 2,000
Feet

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Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
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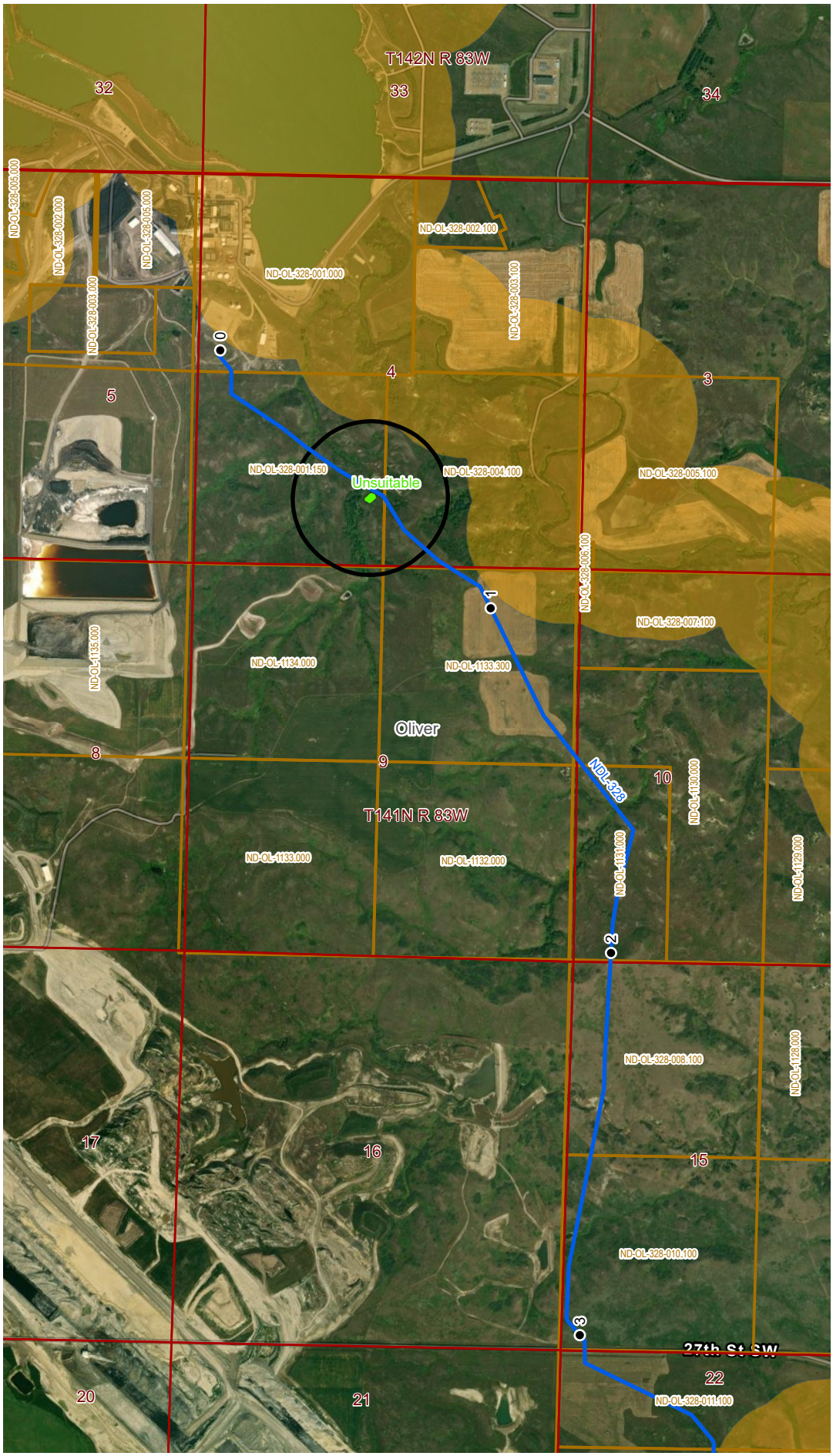
MXD23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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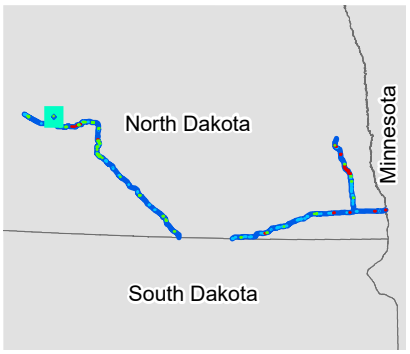

LEGEND

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FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
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- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

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Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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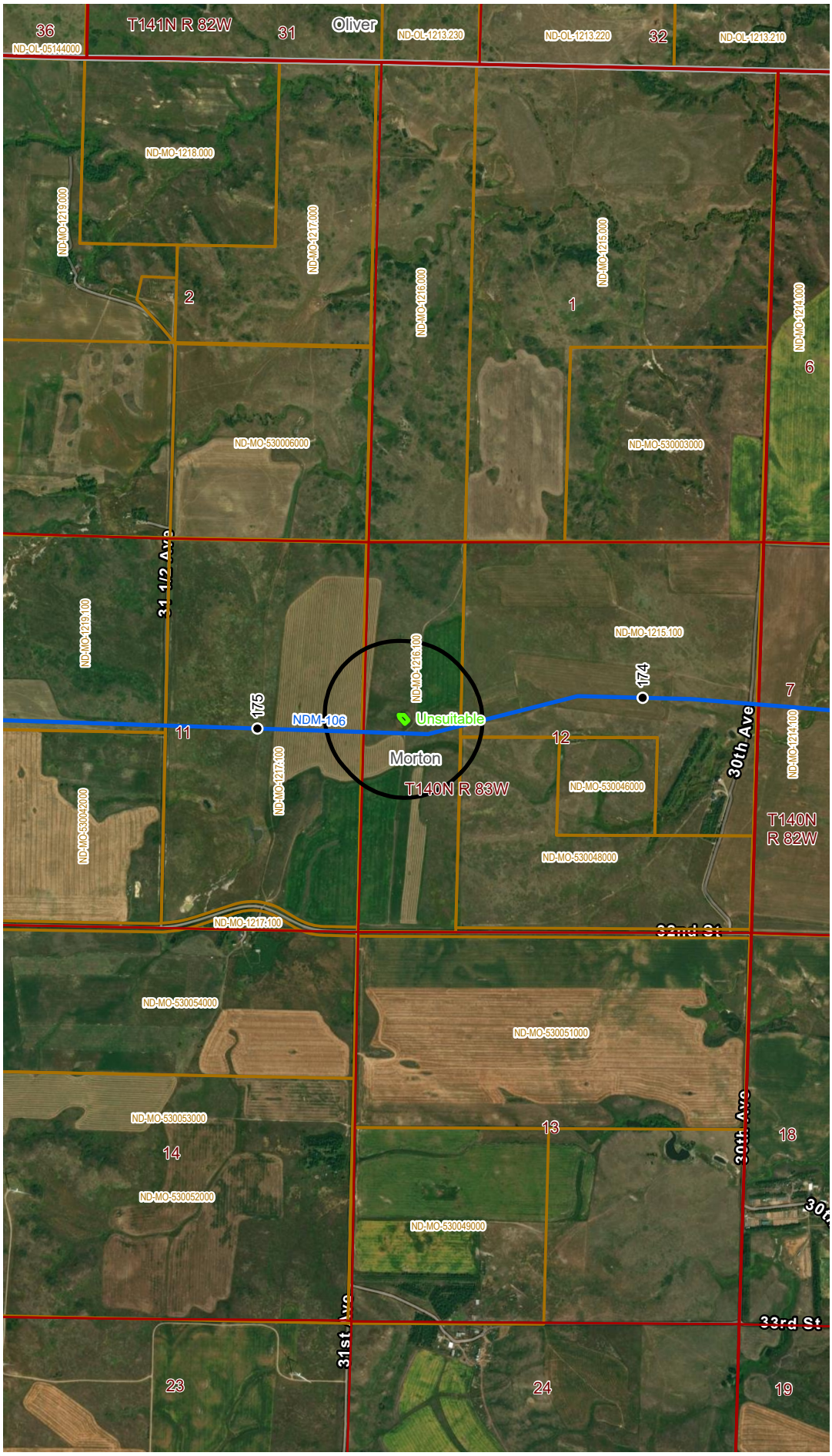
MCE23_NDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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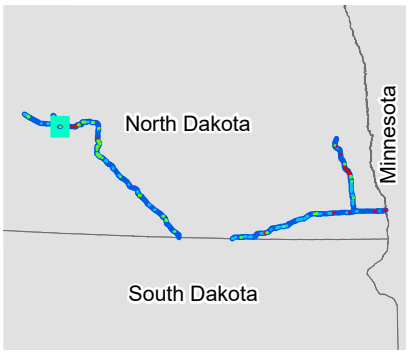

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
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0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
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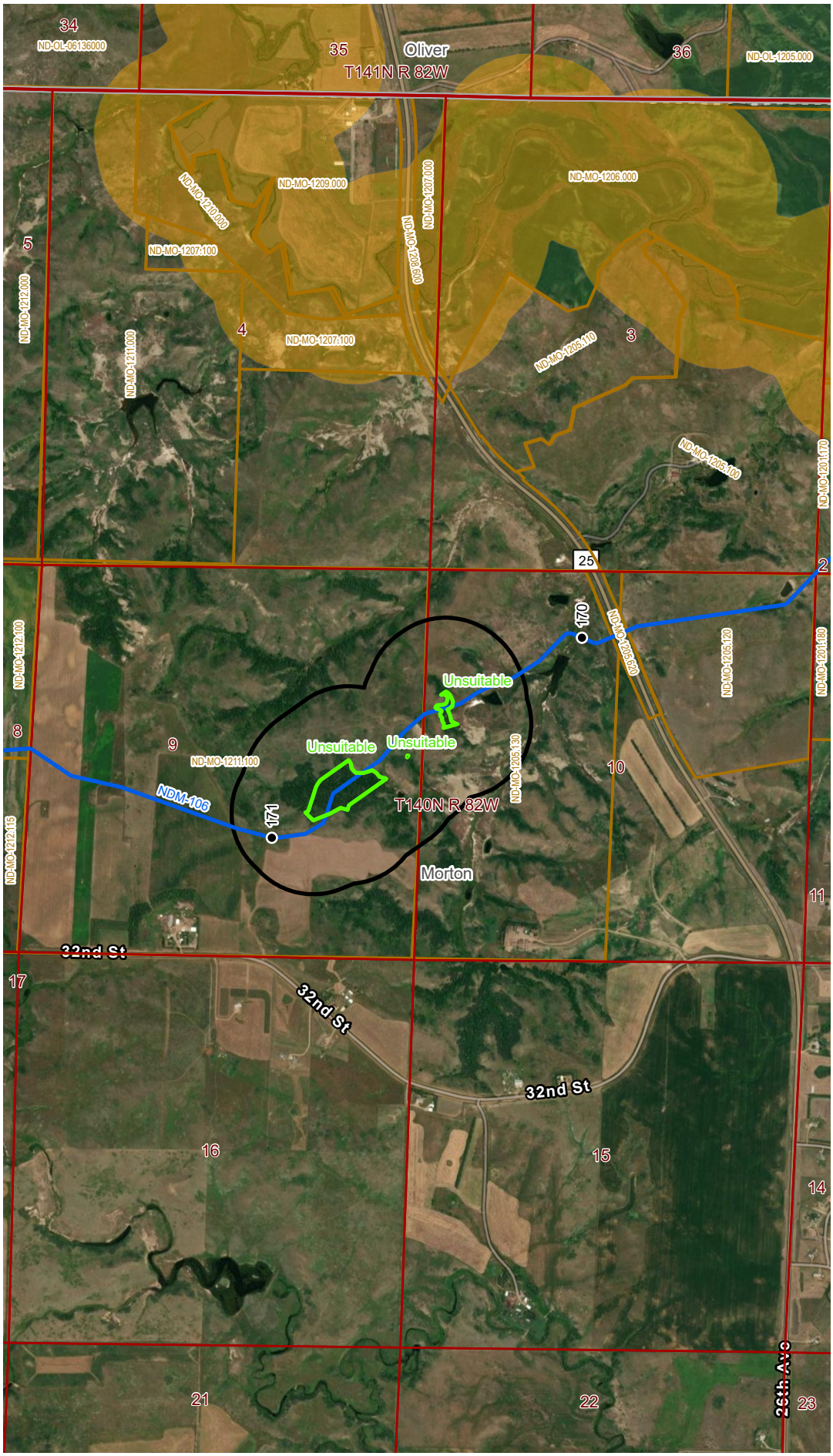
MCE23_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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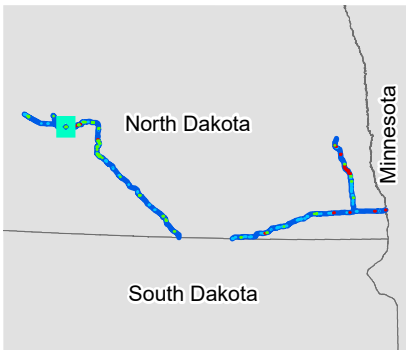

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
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- PLSS Township Range
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0 1,000 2,000
Feet

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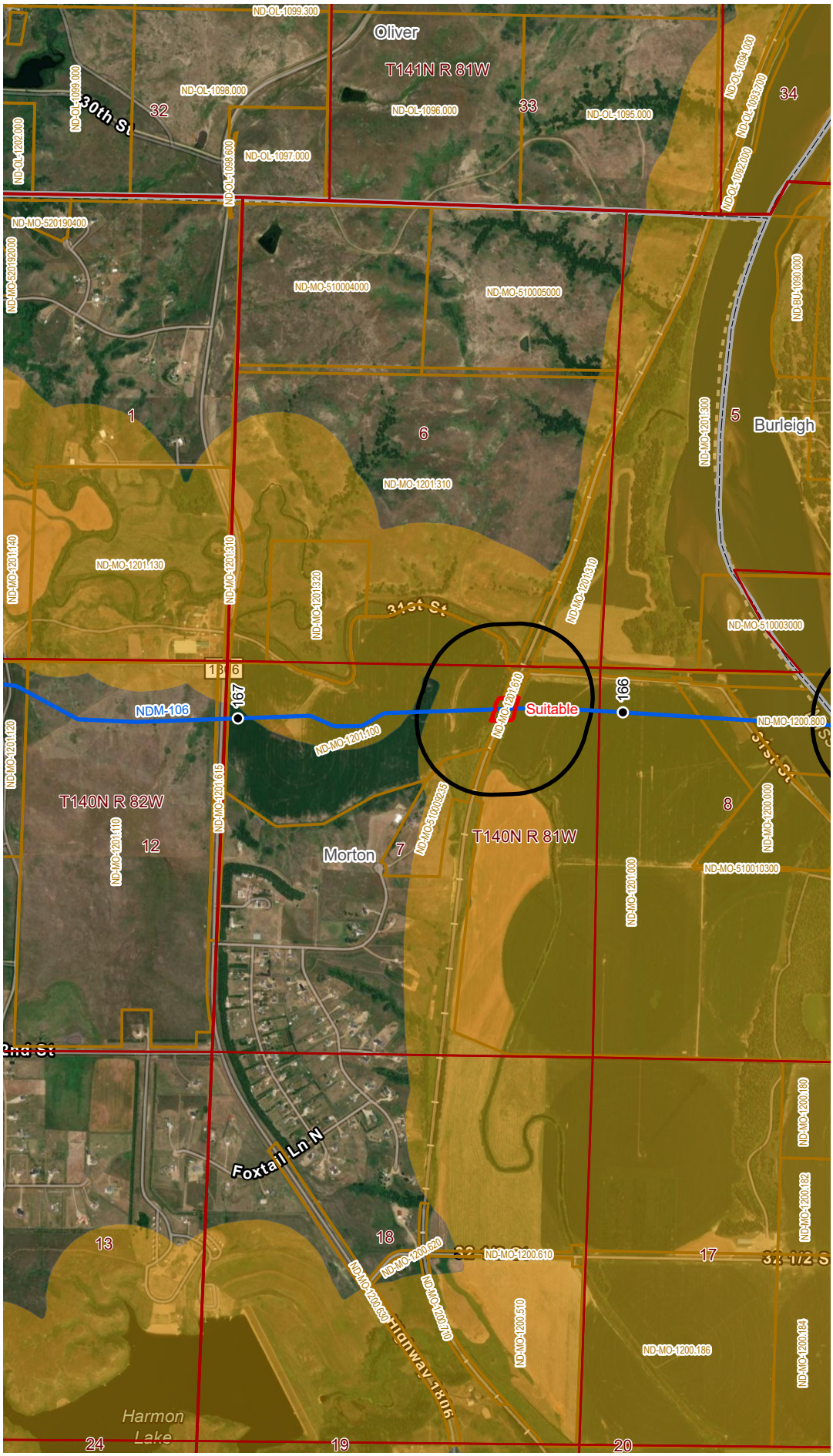
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 7 Sheet 7 of 71	**Drawing Number:** 1

MC233_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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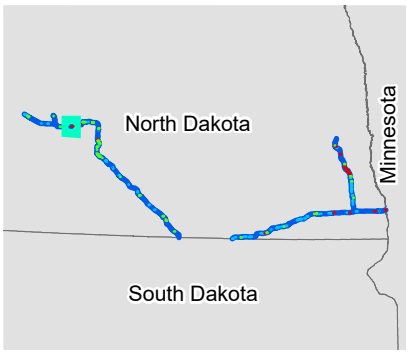

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FWS NLEB Habitat Type

- Suitable
- Isolated
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0 1,000 2,000
Feet

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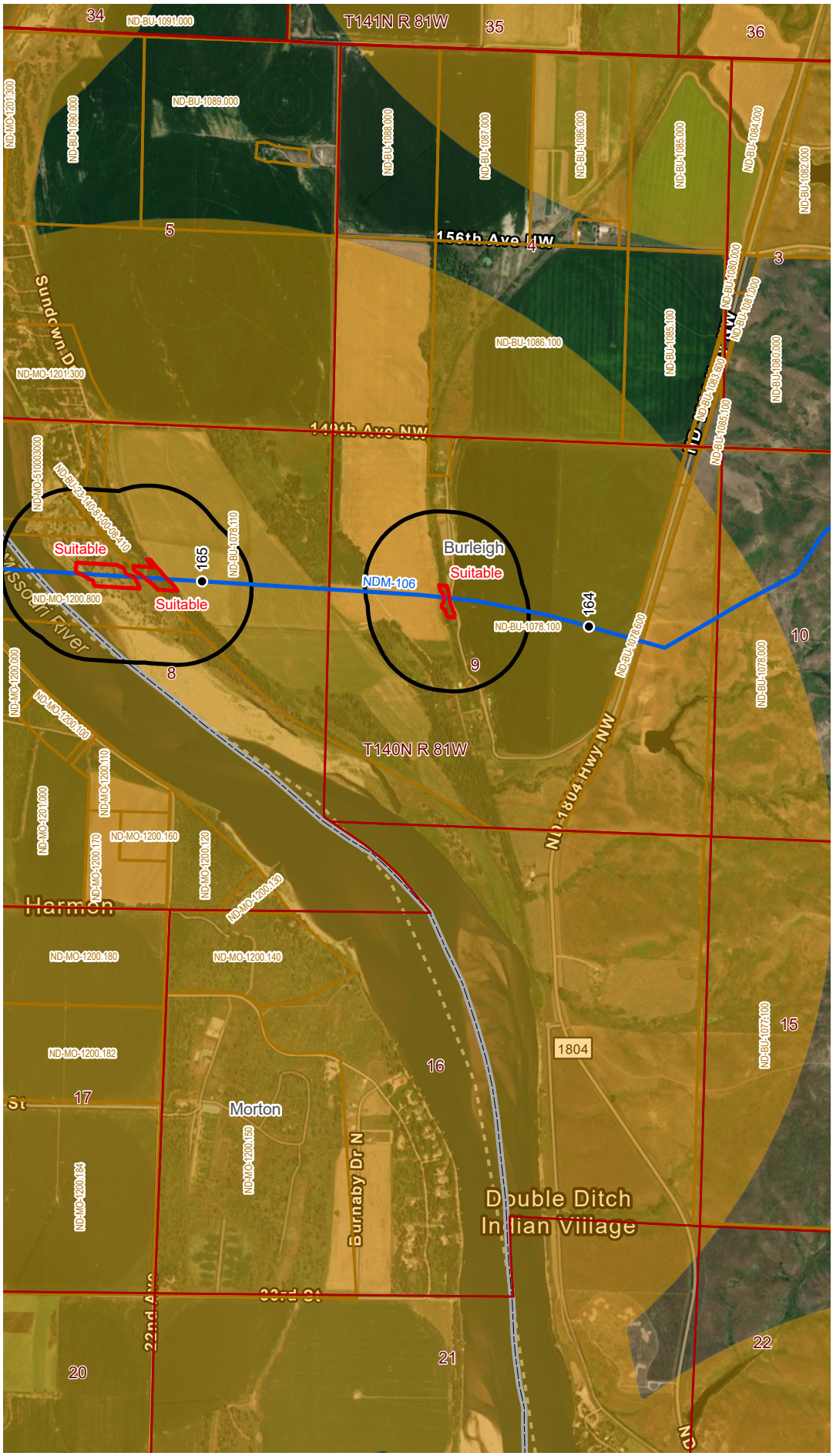
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 8 Sheet 8 of 71	**Drawing Number:** 1

MXD23_NDakHPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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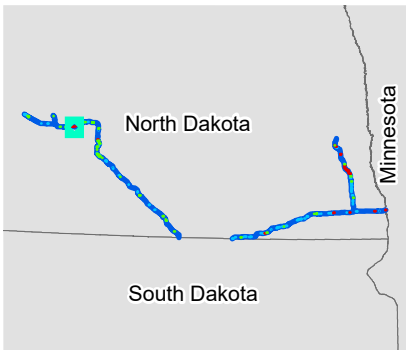

LEGEND

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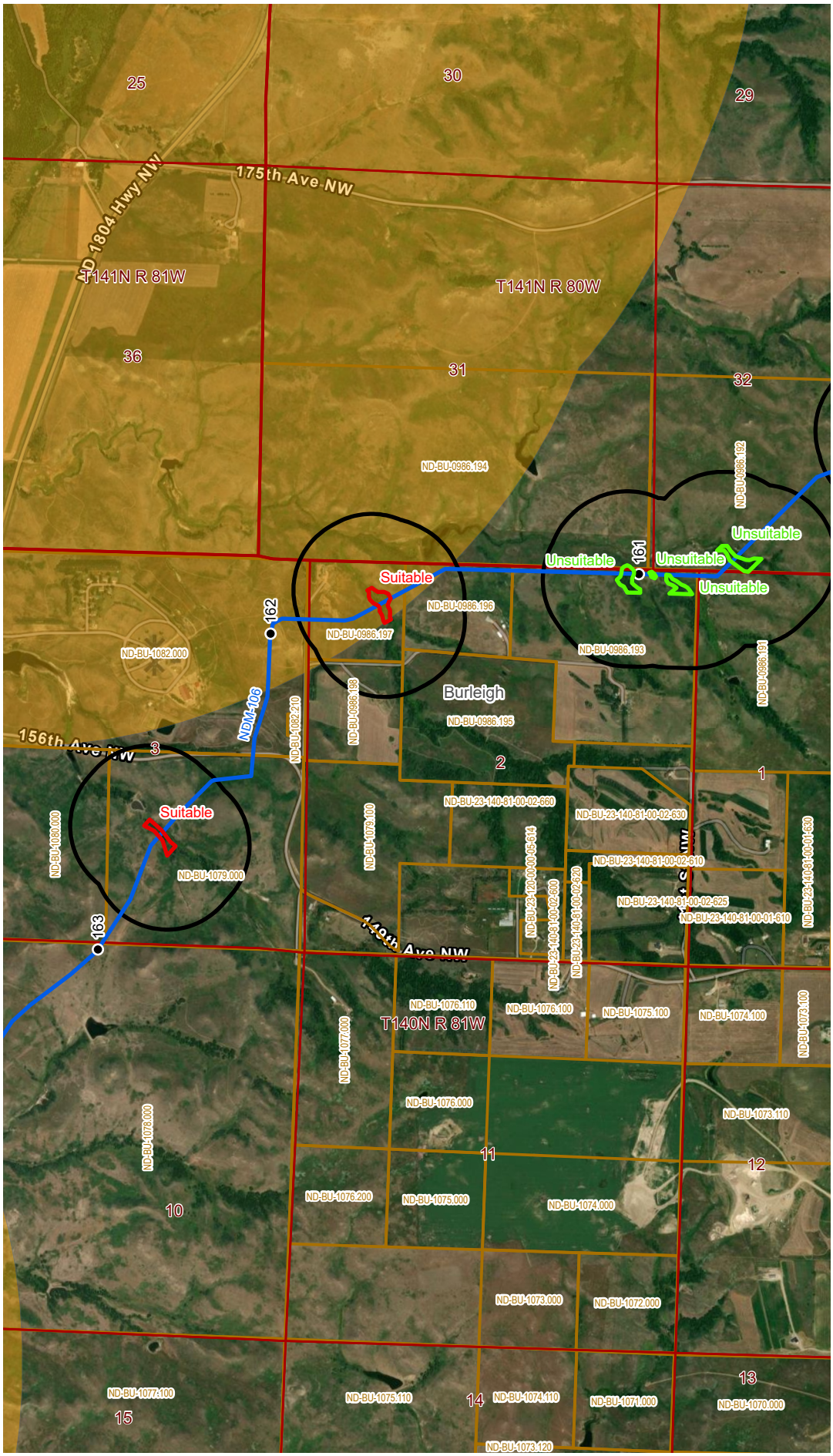
Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 9 Sheet 9 of 71	**Drawing Number:** 1

MXD23_NDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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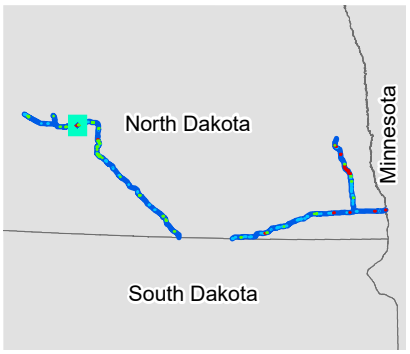

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Sheet: E - 10 Sheet 10 of 71	**Drawing Number:** 1

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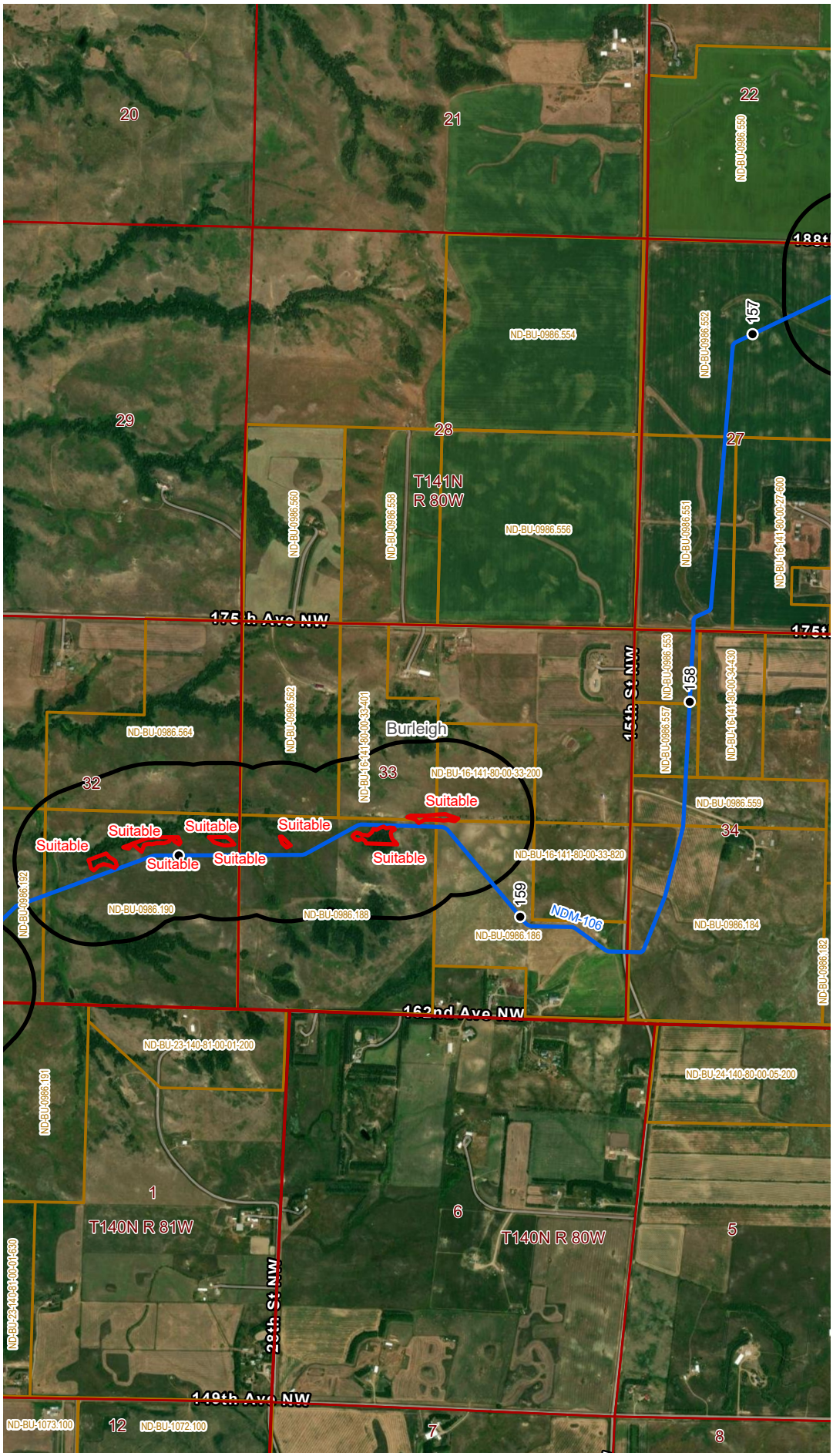
NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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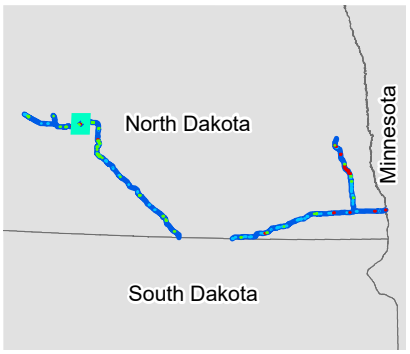

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

REVISIONS

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Date:	Revised by:	Checked by:
Date:	Revised by:	Checked by:

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MIDWEST CARBON EXPRESS PROJECT

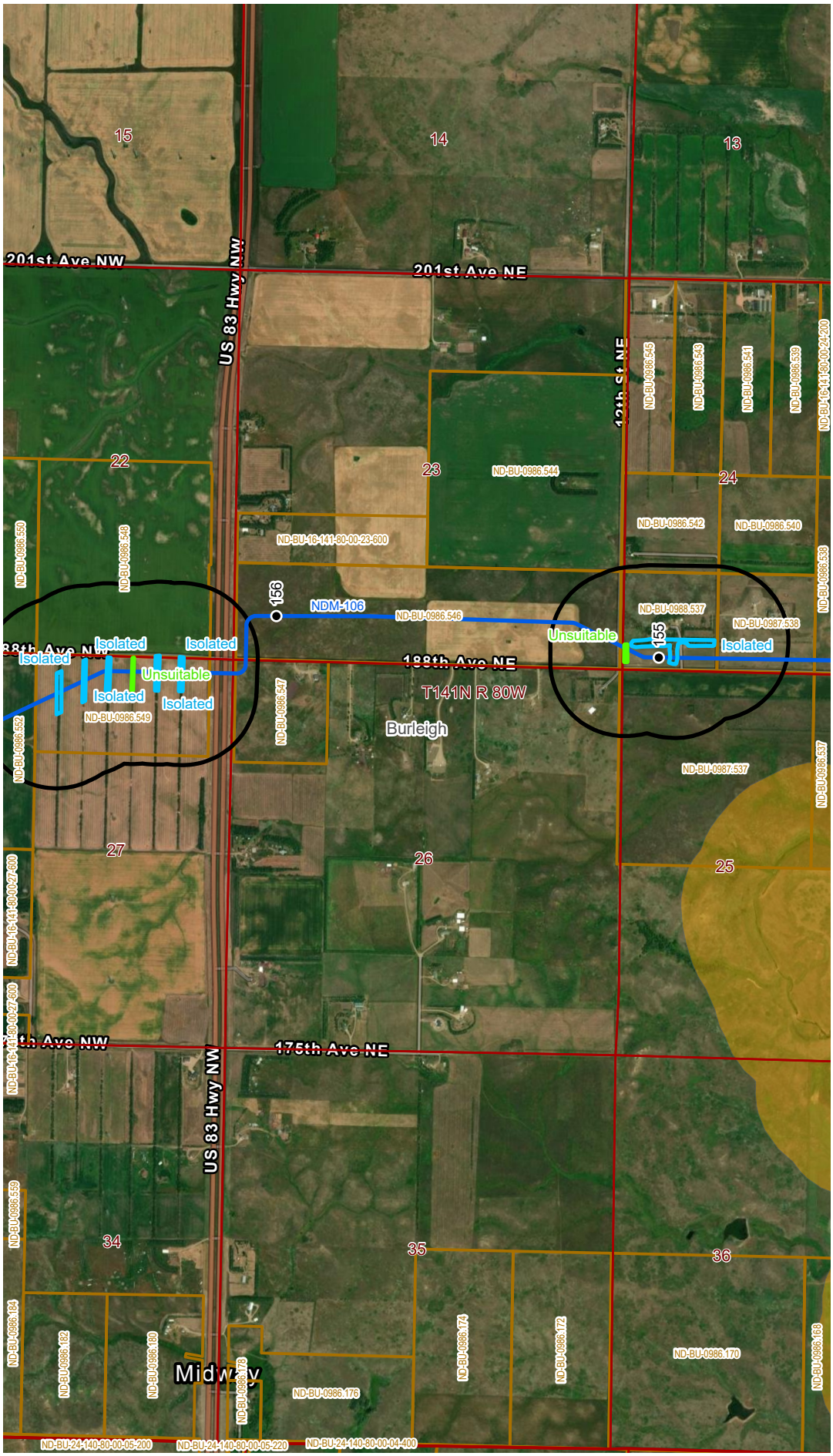
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 11, Sheet 11 of 71	Drawing Number: 1

MCE23_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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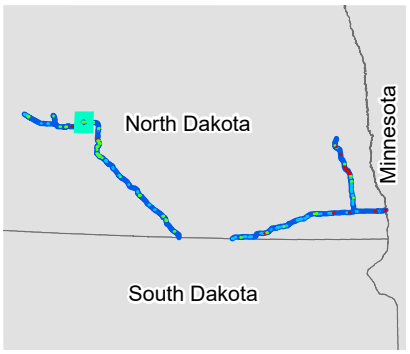

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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MIDWEST CARBON EXPRESS PROJECT

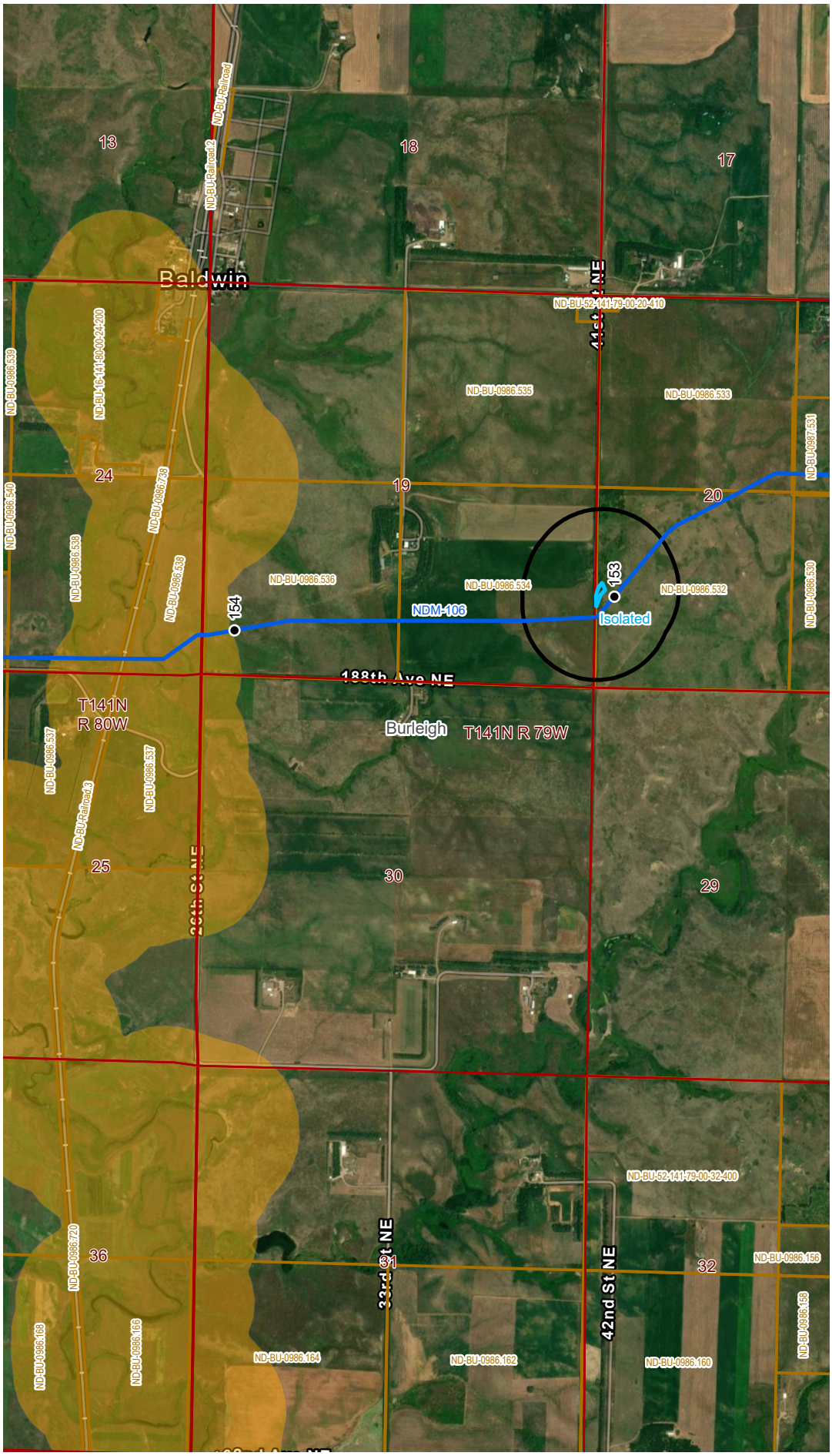
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 12 Sheet 12 of 71	**Drawing Number:** 1

MCE2J_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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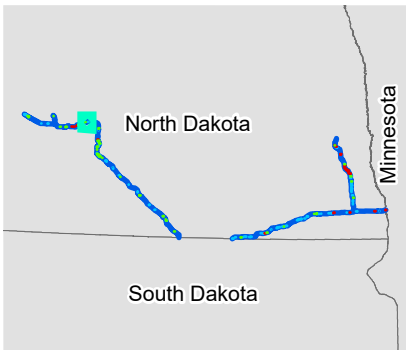

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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MIDWEST CARBON EXPRESS PROJECT

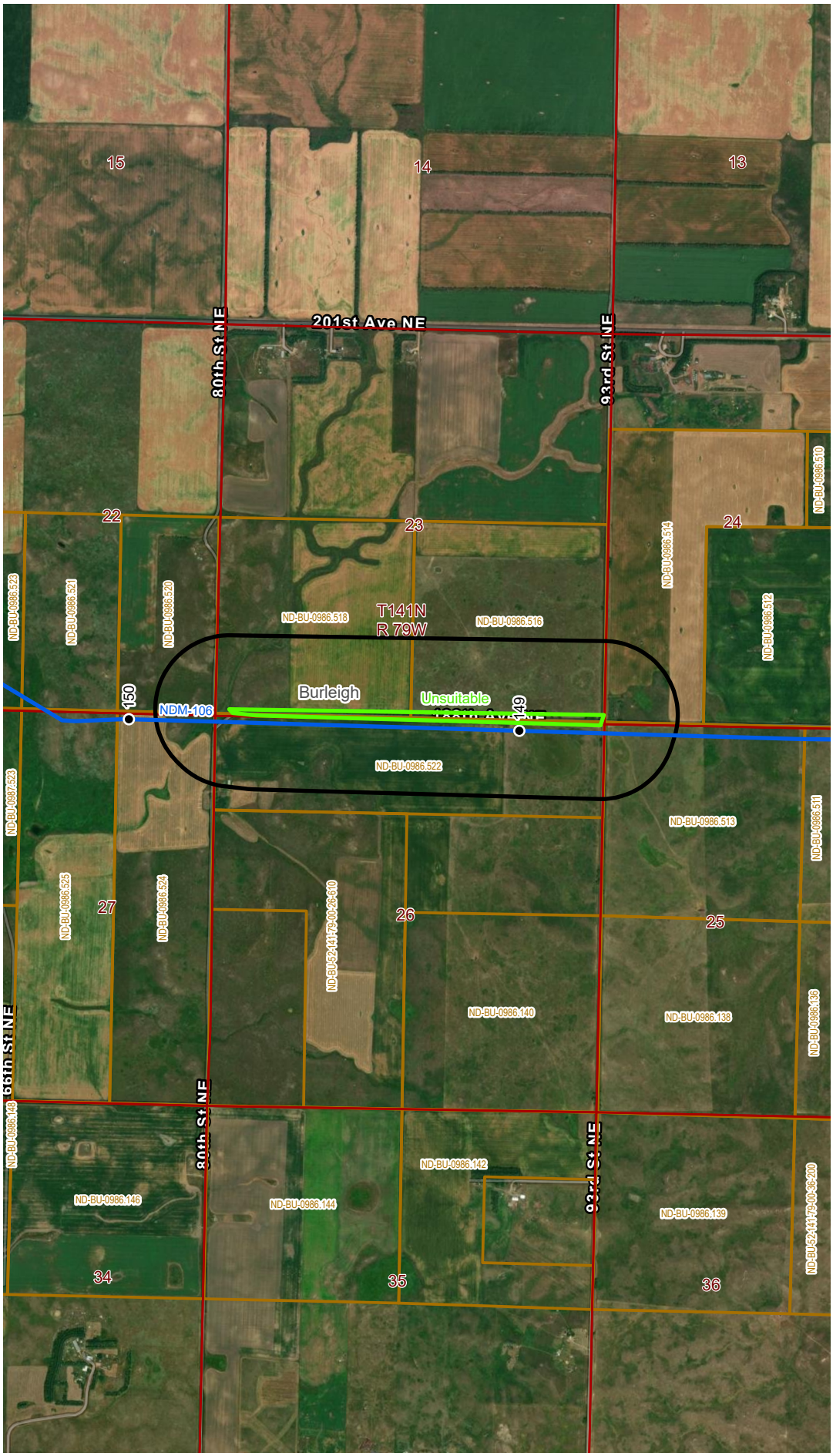
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 13 Sheet 13 of 71	**Drawing Number:** 1

MXD23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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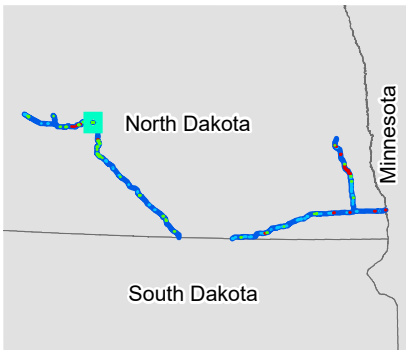

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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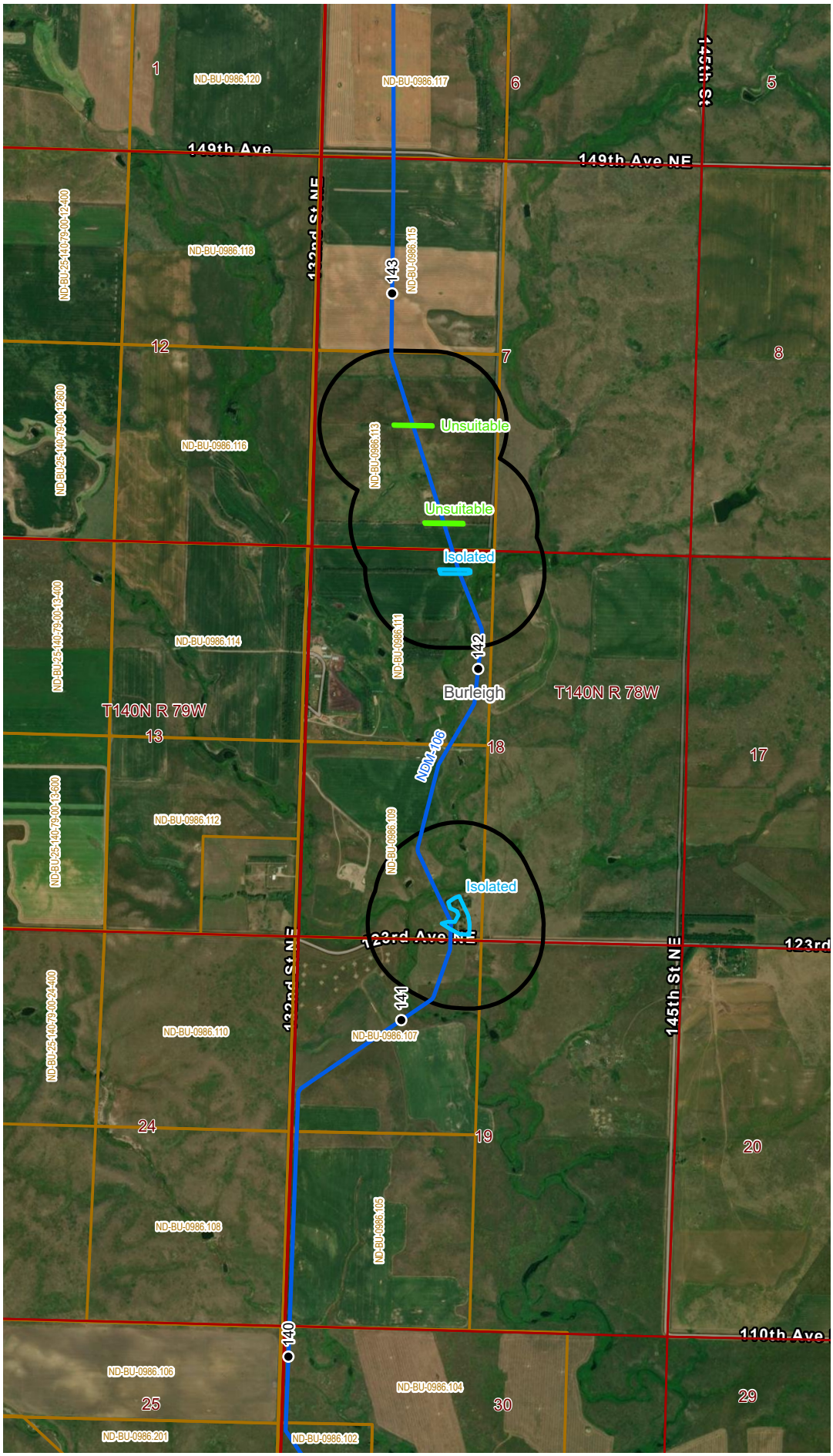
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 14, Sheet 14 of 71	Drawing Number: 1

MXD23_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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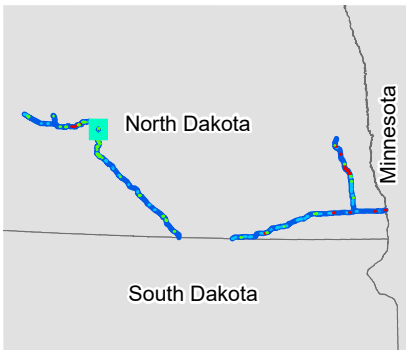

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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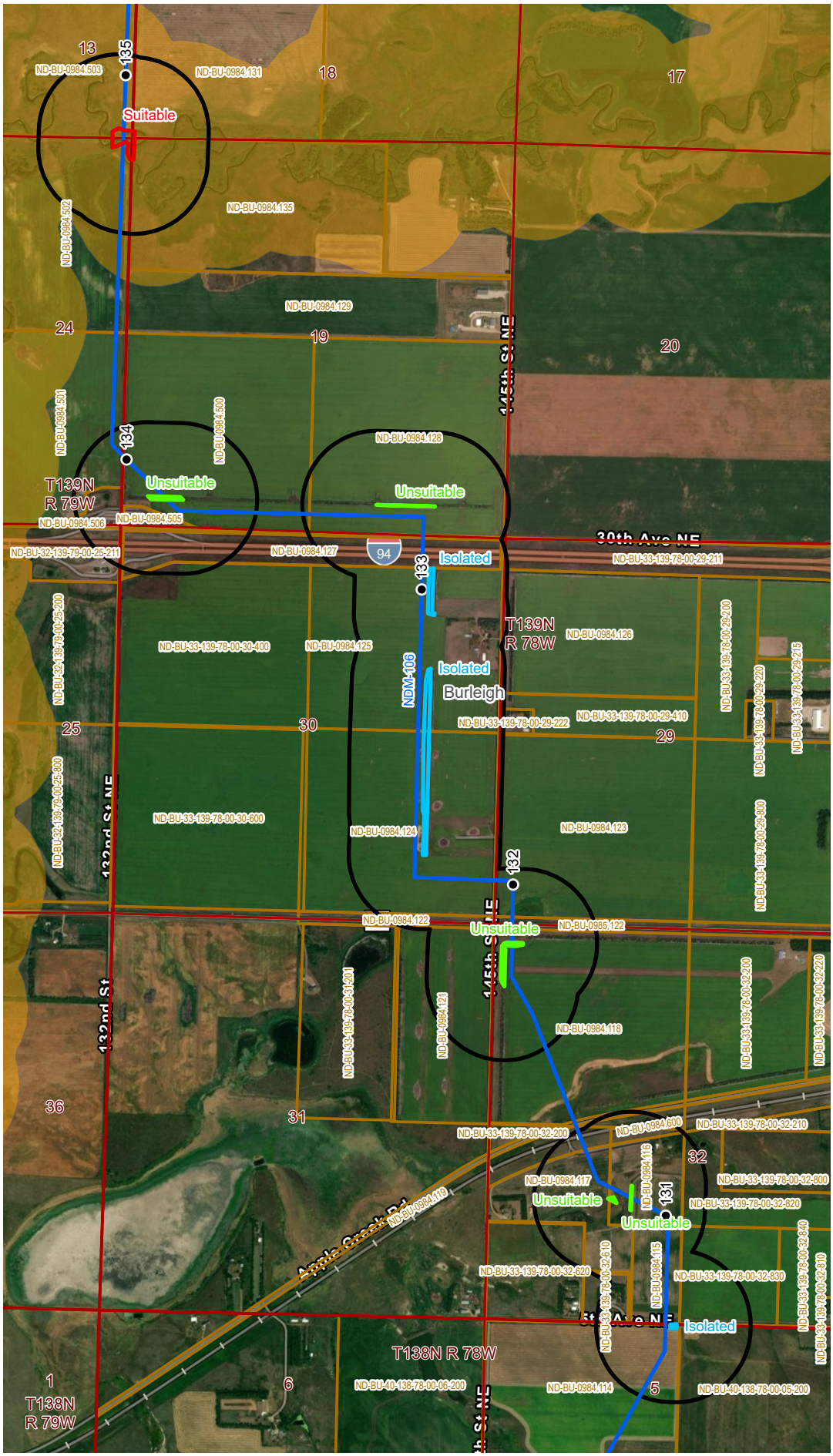
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 15, Sheet 15 of 71	Drawing Number: 1

MXD23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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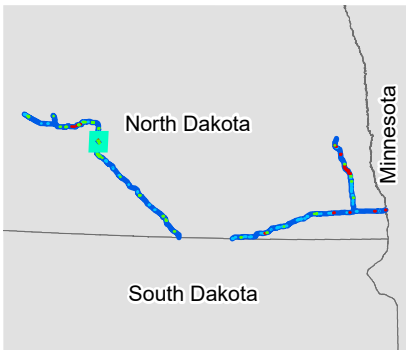

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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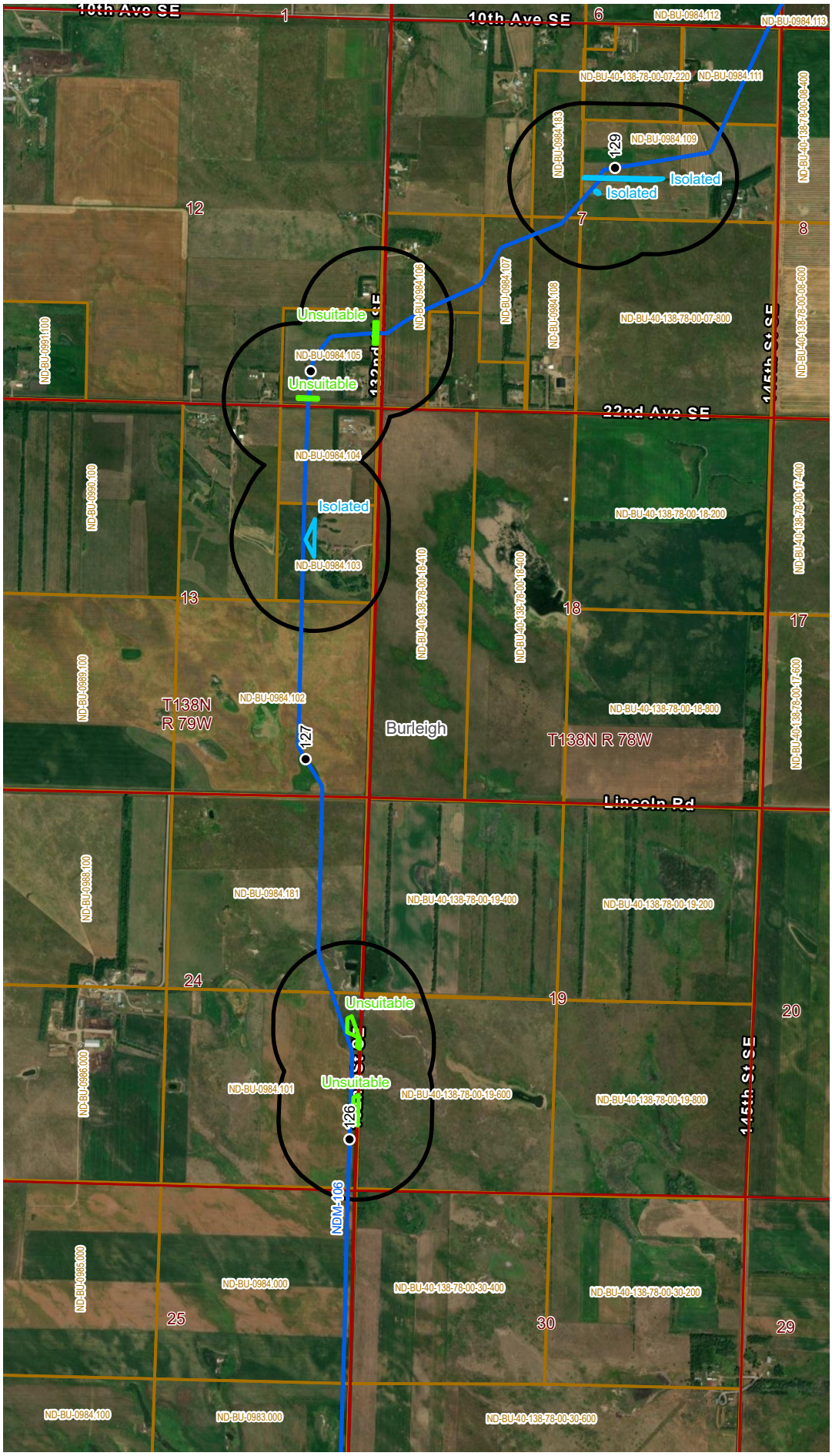
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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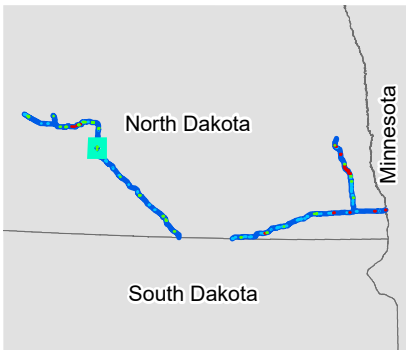

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

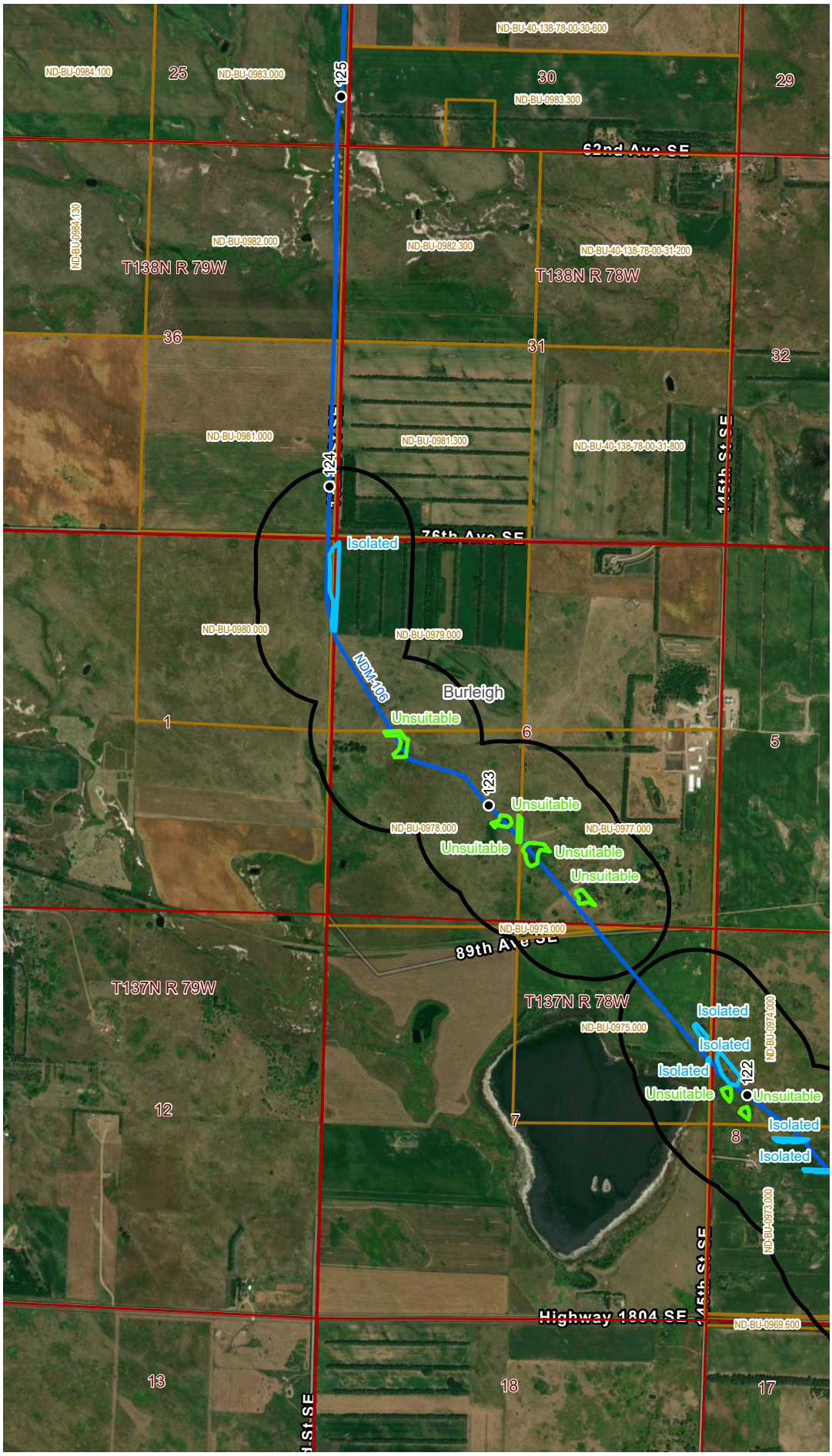
Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
E - 17 Sheet 17 of 71	1

MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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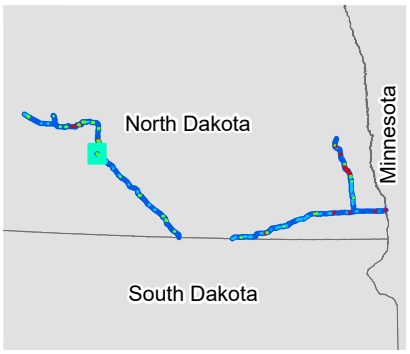

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

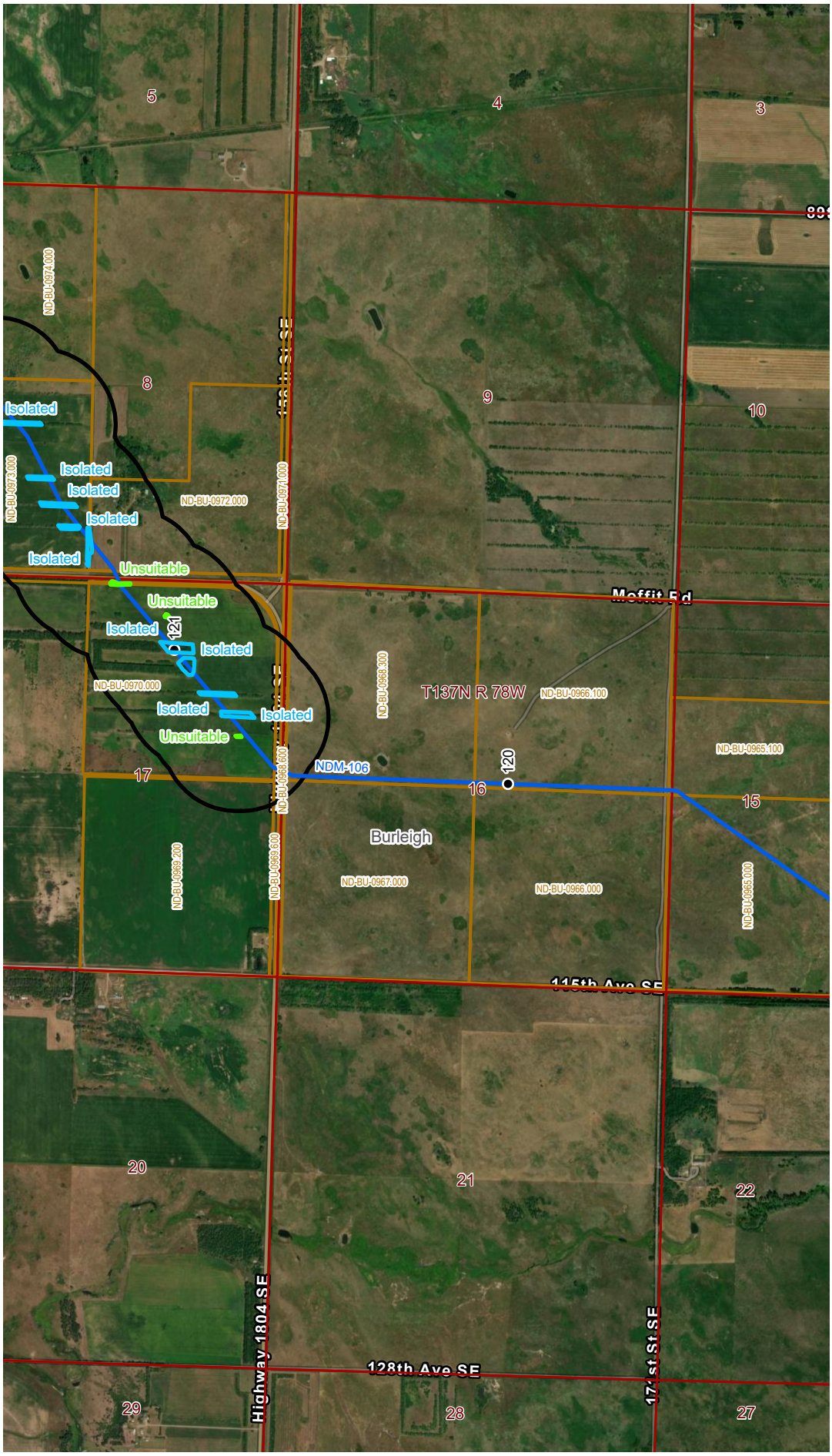
Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
E - 18 Sheet 18 of 71	1

MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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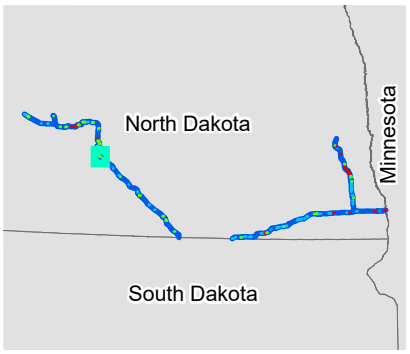

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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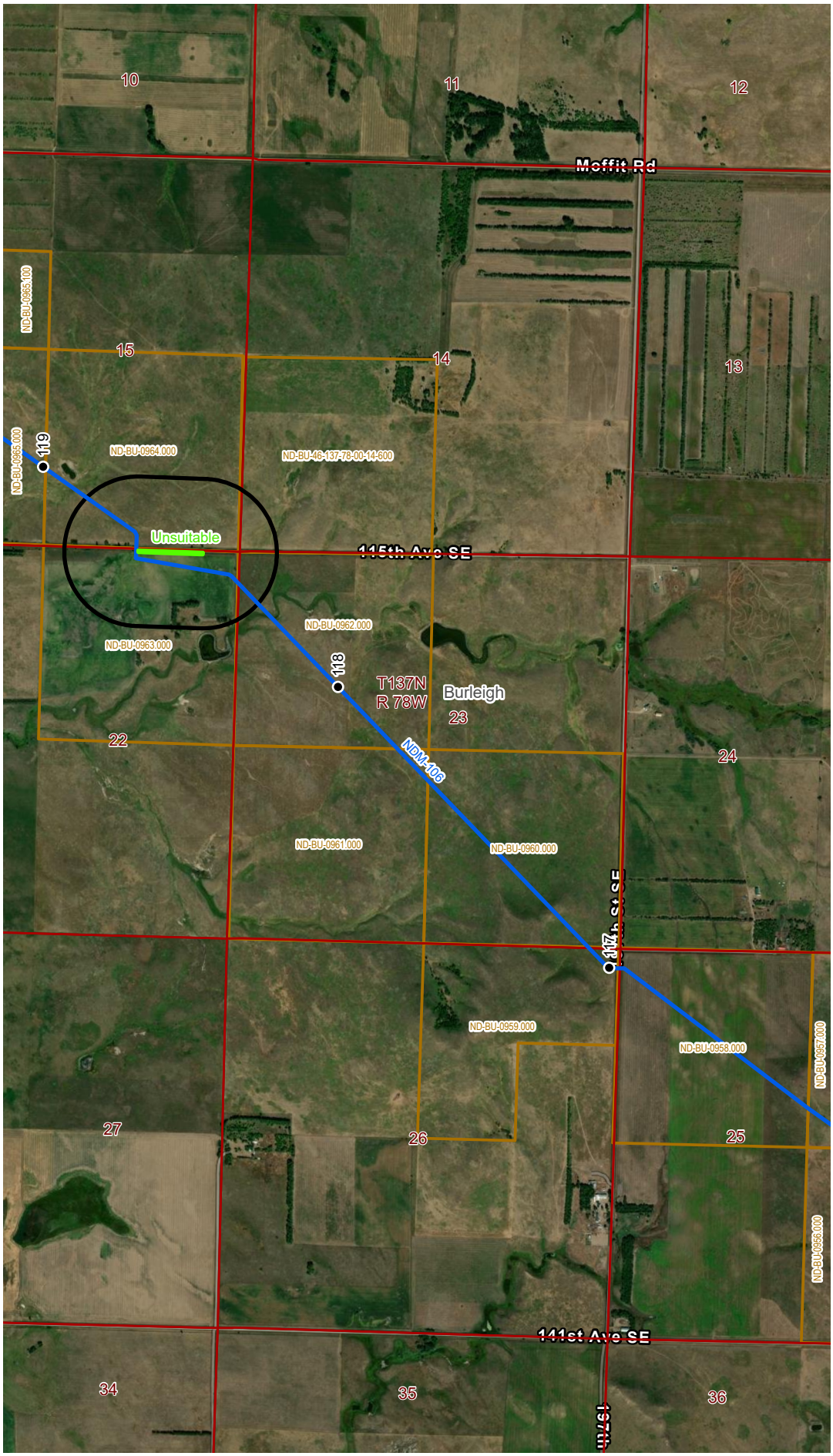
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 19 Sheet 19 of 71	**Drawing Number:** 1

MXD23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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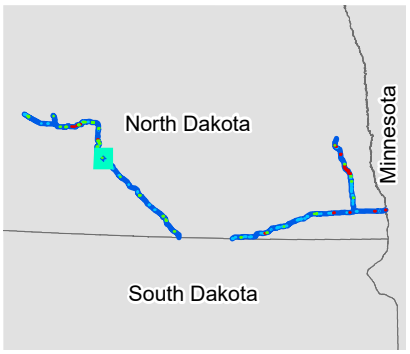

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

N

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

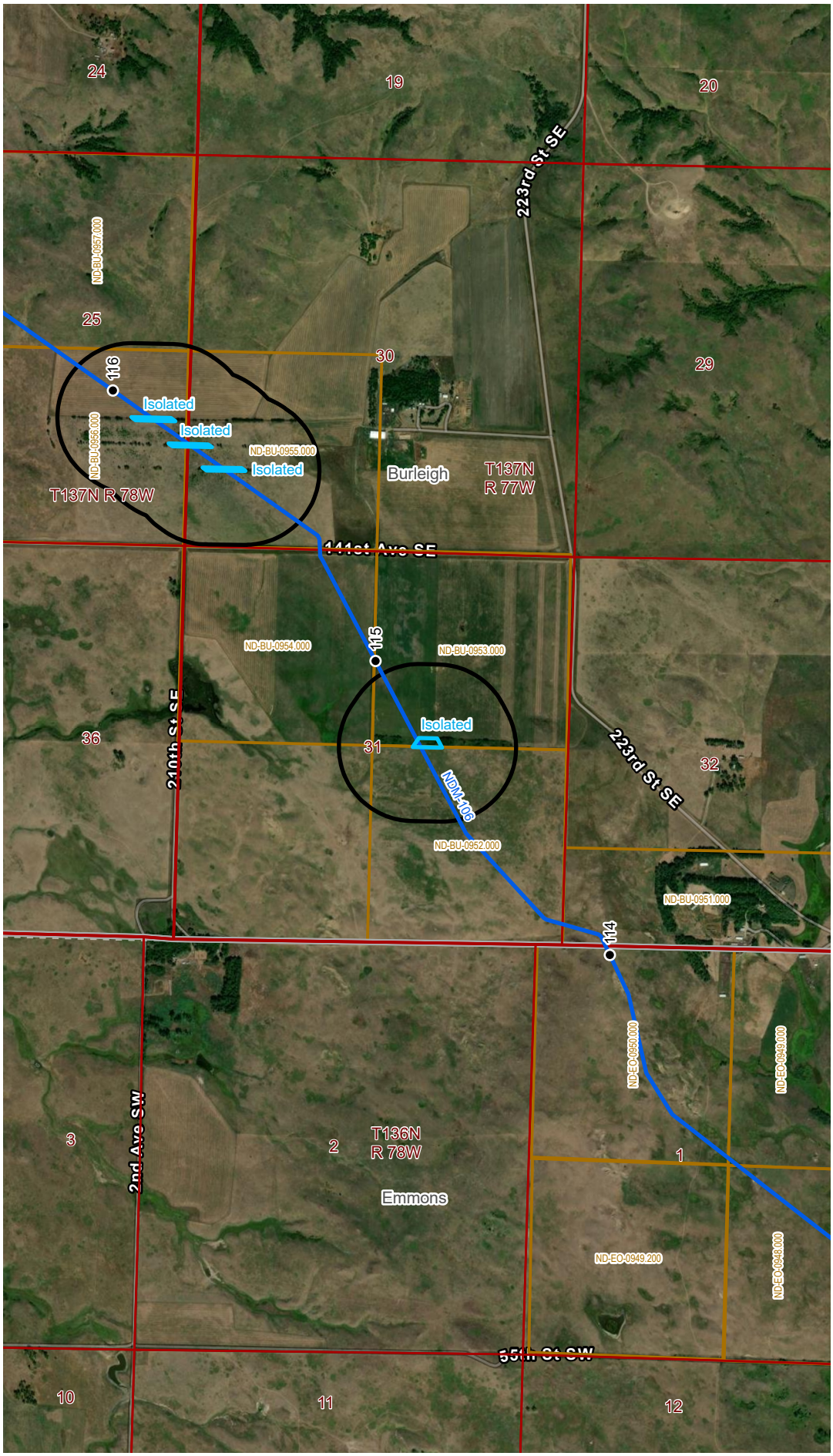
Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
E - 20 Sheet 20 of 71	1

MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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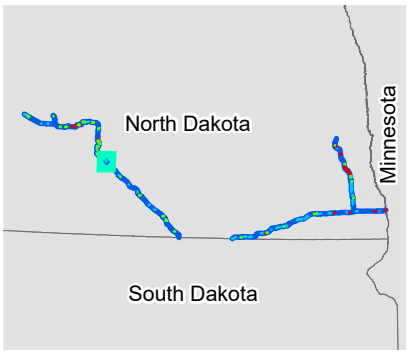

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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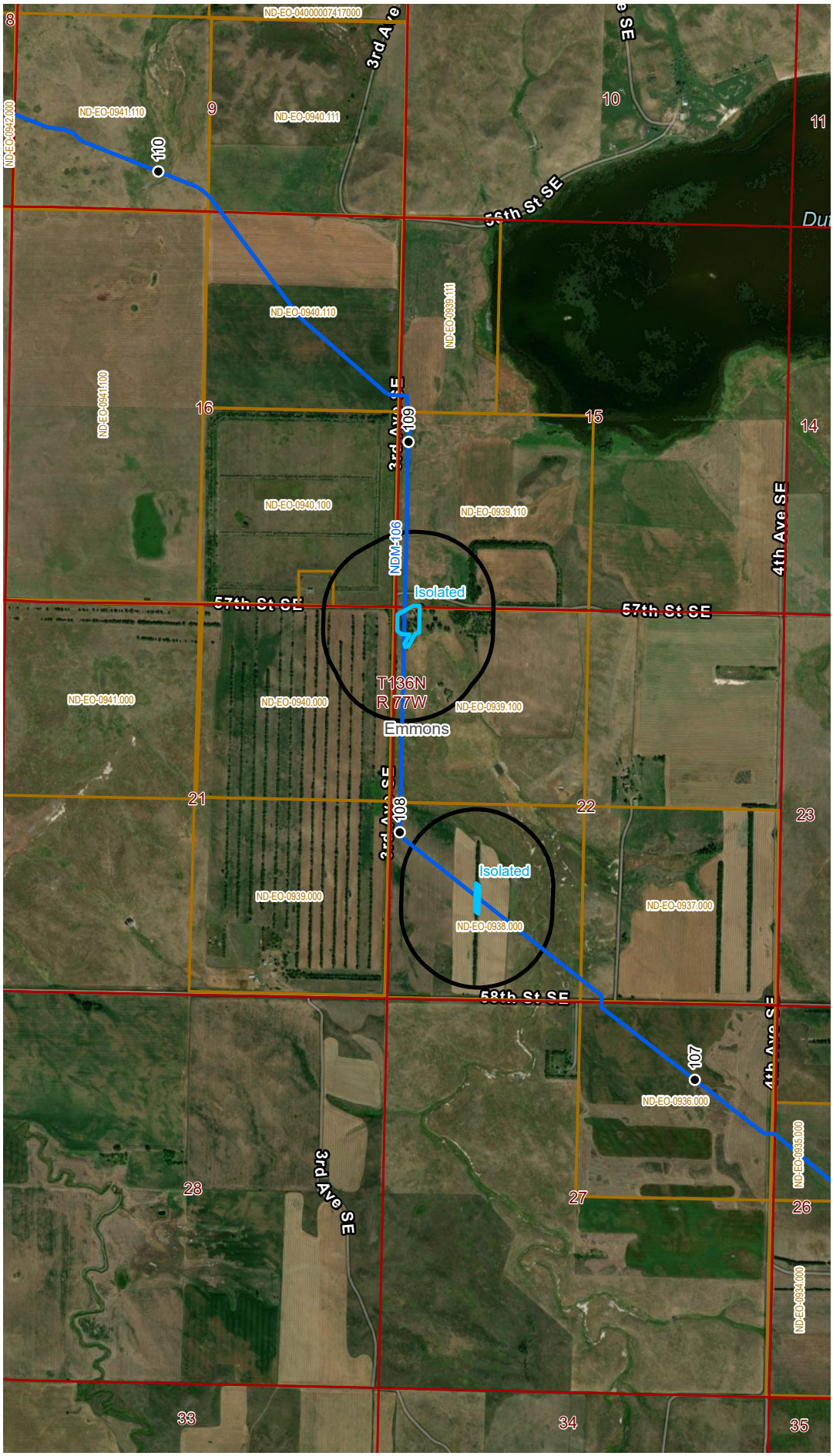
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 21 Sheet 21 of 71	**Drawing Number:** 1

MC233_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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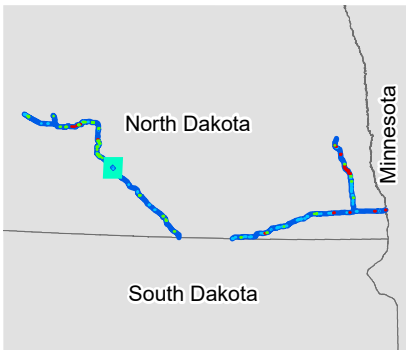

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
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- NLEB 1000ft Analysis Buffer
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0 1,000 2,000
Feet

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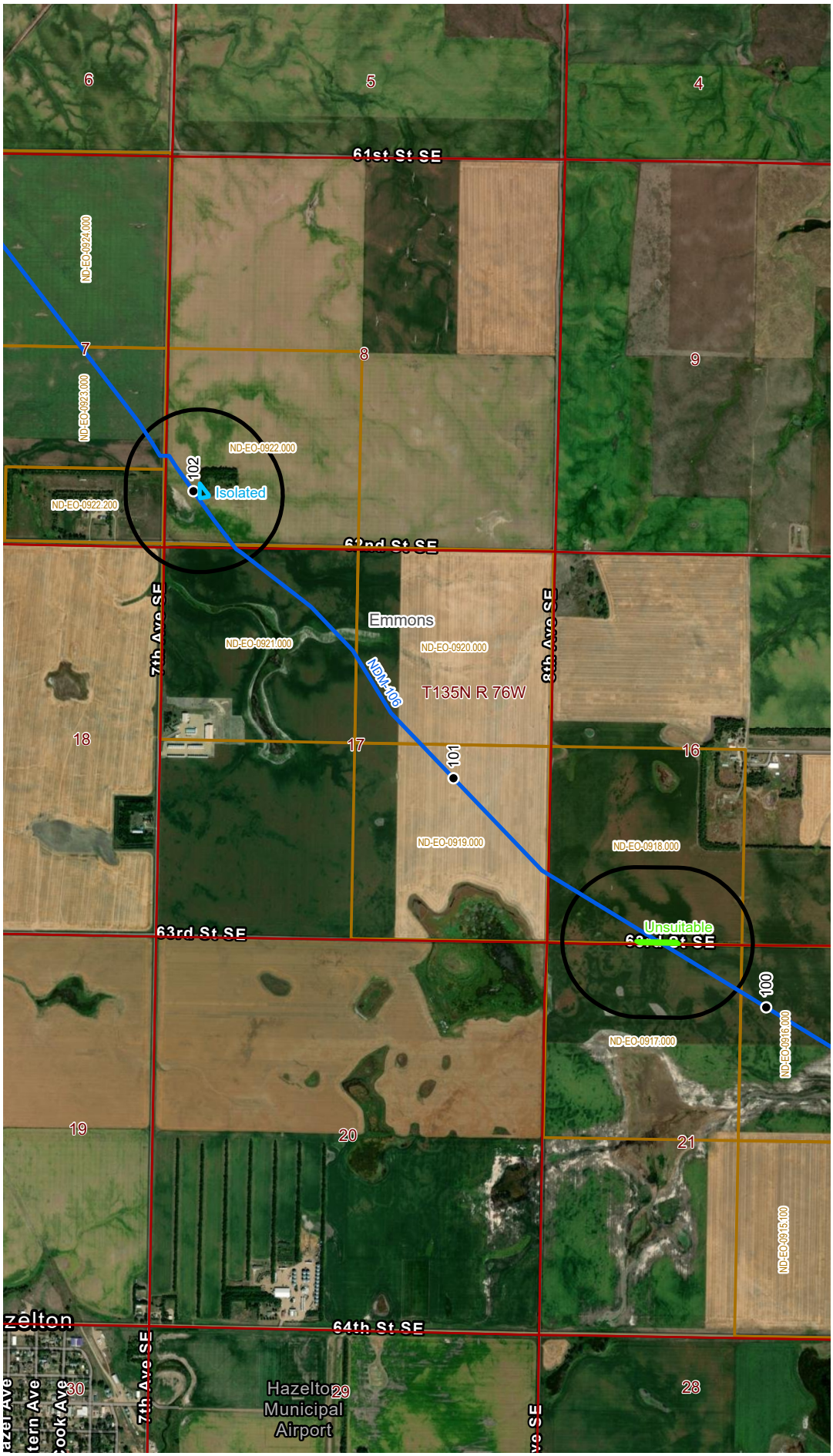
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 22 Sheet 22 of 71	**Drawing Number:** 1

MC233_NDdraftSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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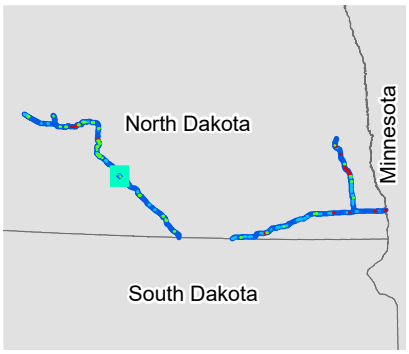

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FWS NLEB Habitat Type

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0 1,000 2,000
Feet

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Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 23, Sheet 23 of 71	Drawing Number: 1

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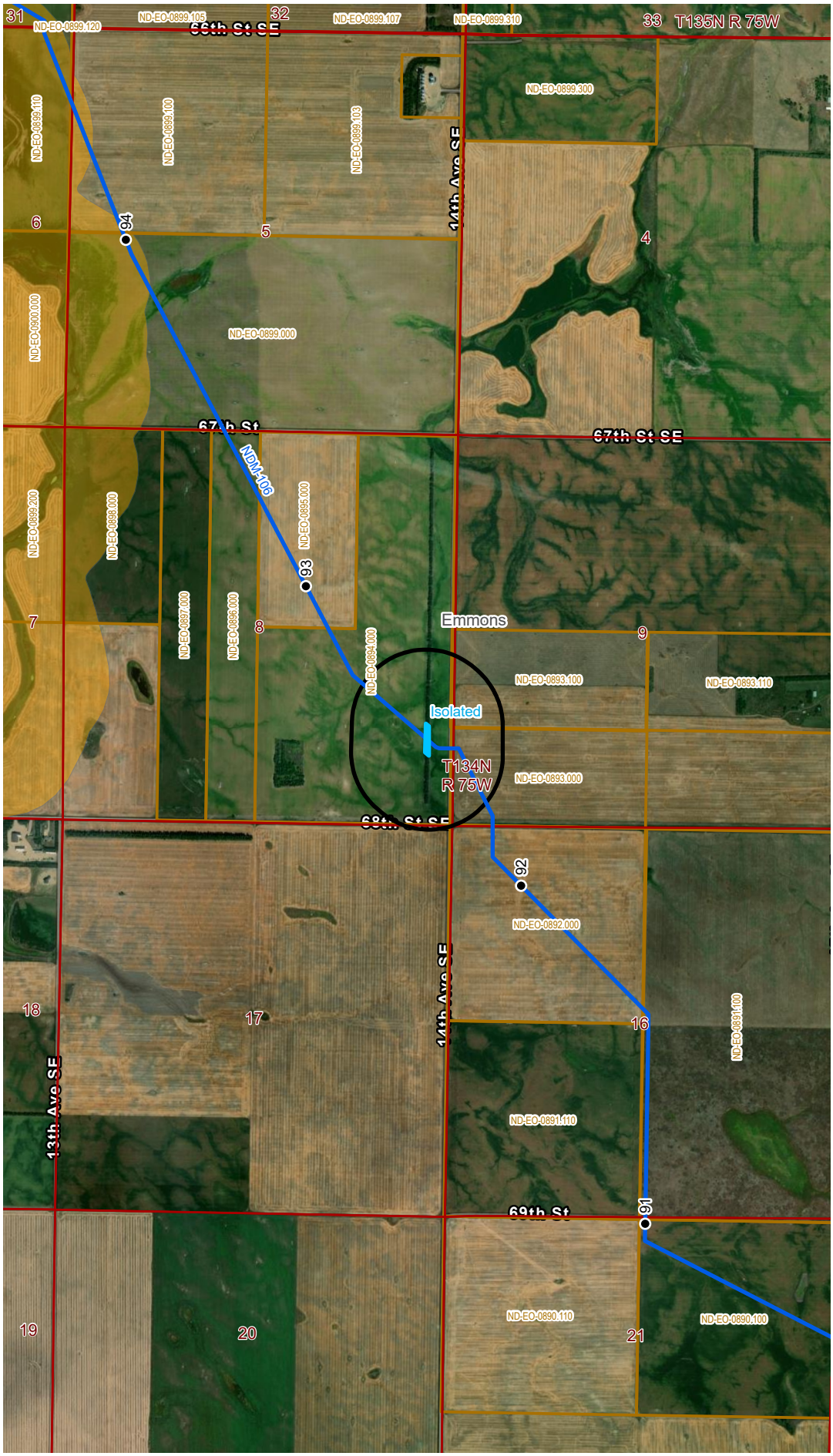
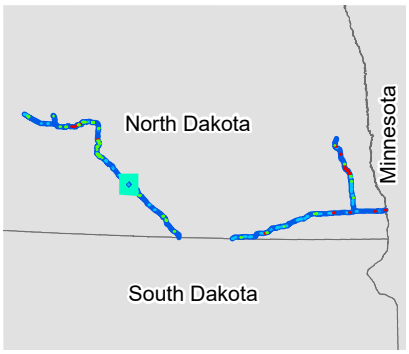
NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



VICINITY MAP



LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Date:	Revised by:	Checked by:
Date:	Revised by:	Checked by:

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MIDWEST CARBON EXPRESS PROJECT

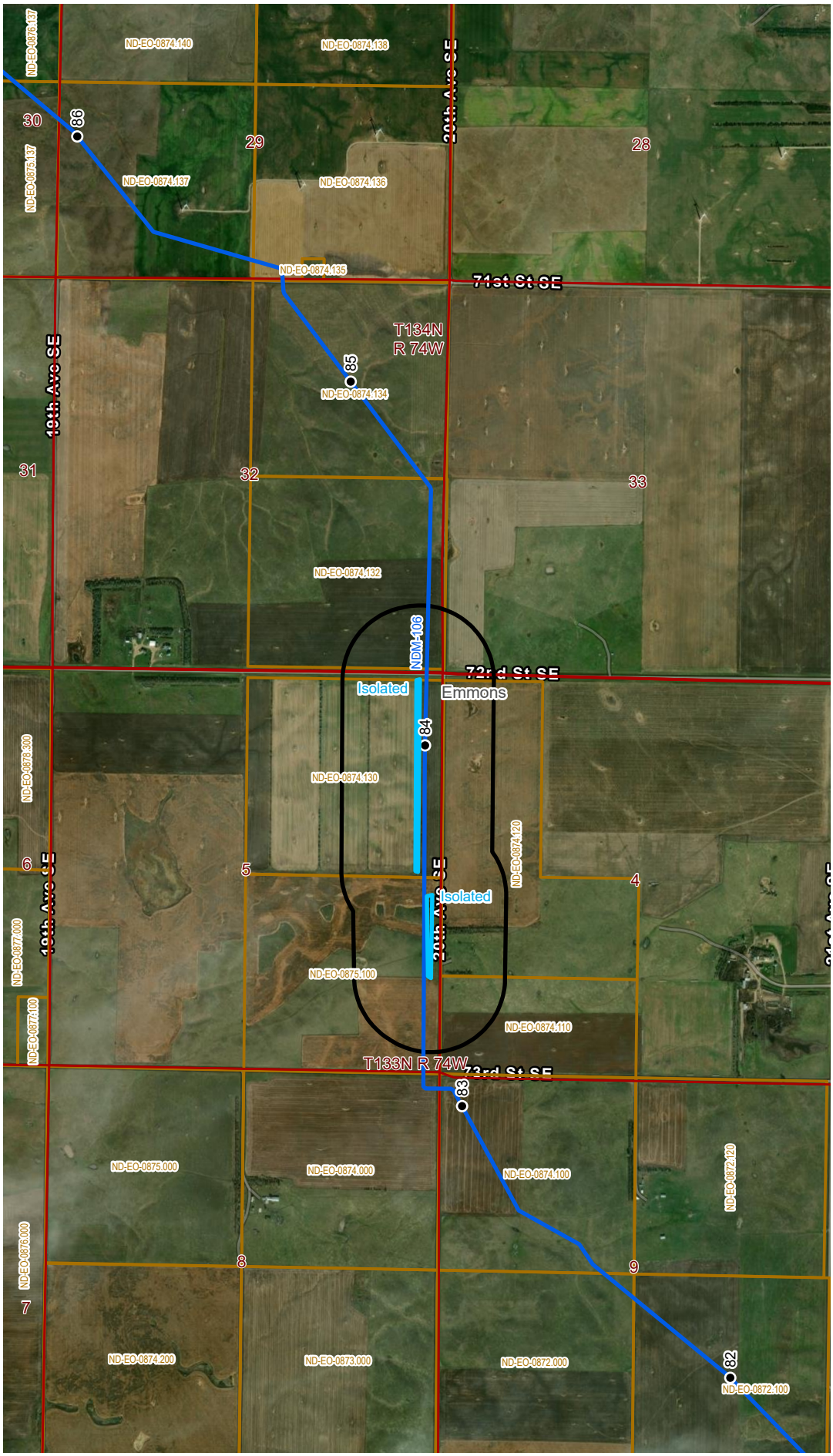
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 24 Sheet 24 of 71	**Drawing Number:** 1

MXD23_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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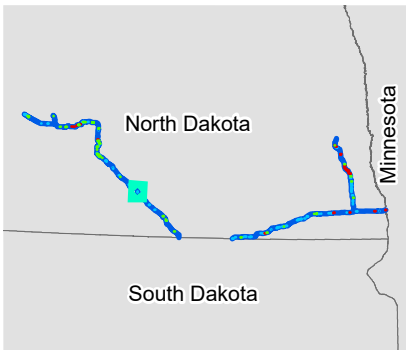

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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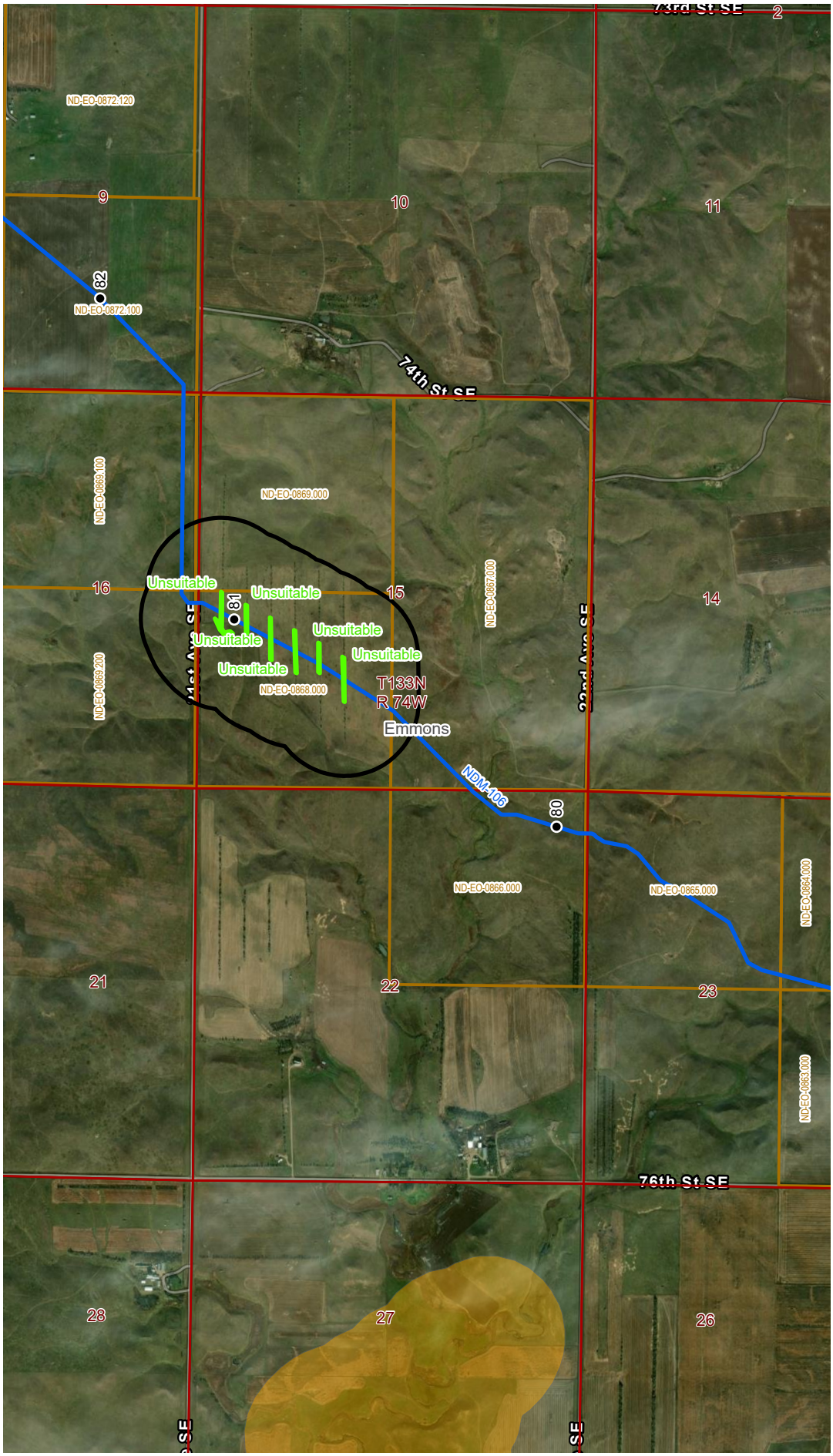
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 25 Sheet 25 of 71	**Drawing Number:** 1

MXD23_NDakHPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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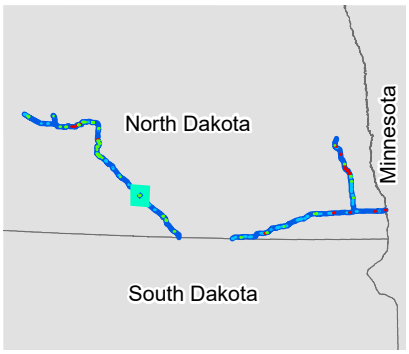

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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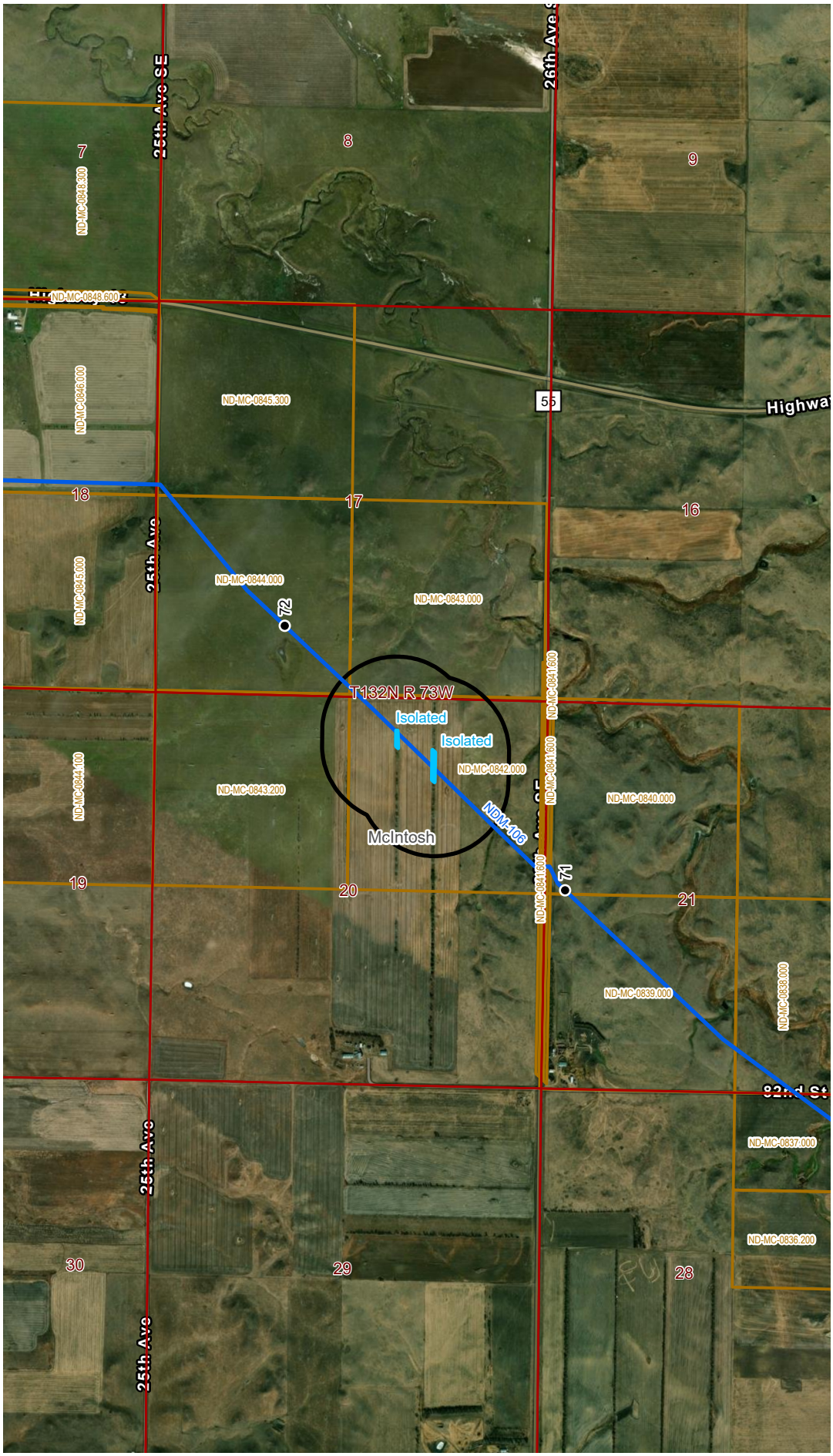
Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 26 Sheet 26 of 71	**Drawing Number:** 1

MXD23_NDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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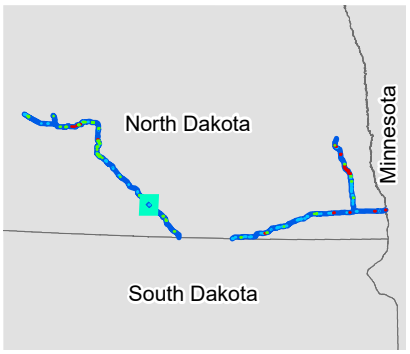

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

N

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Figure Title:
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Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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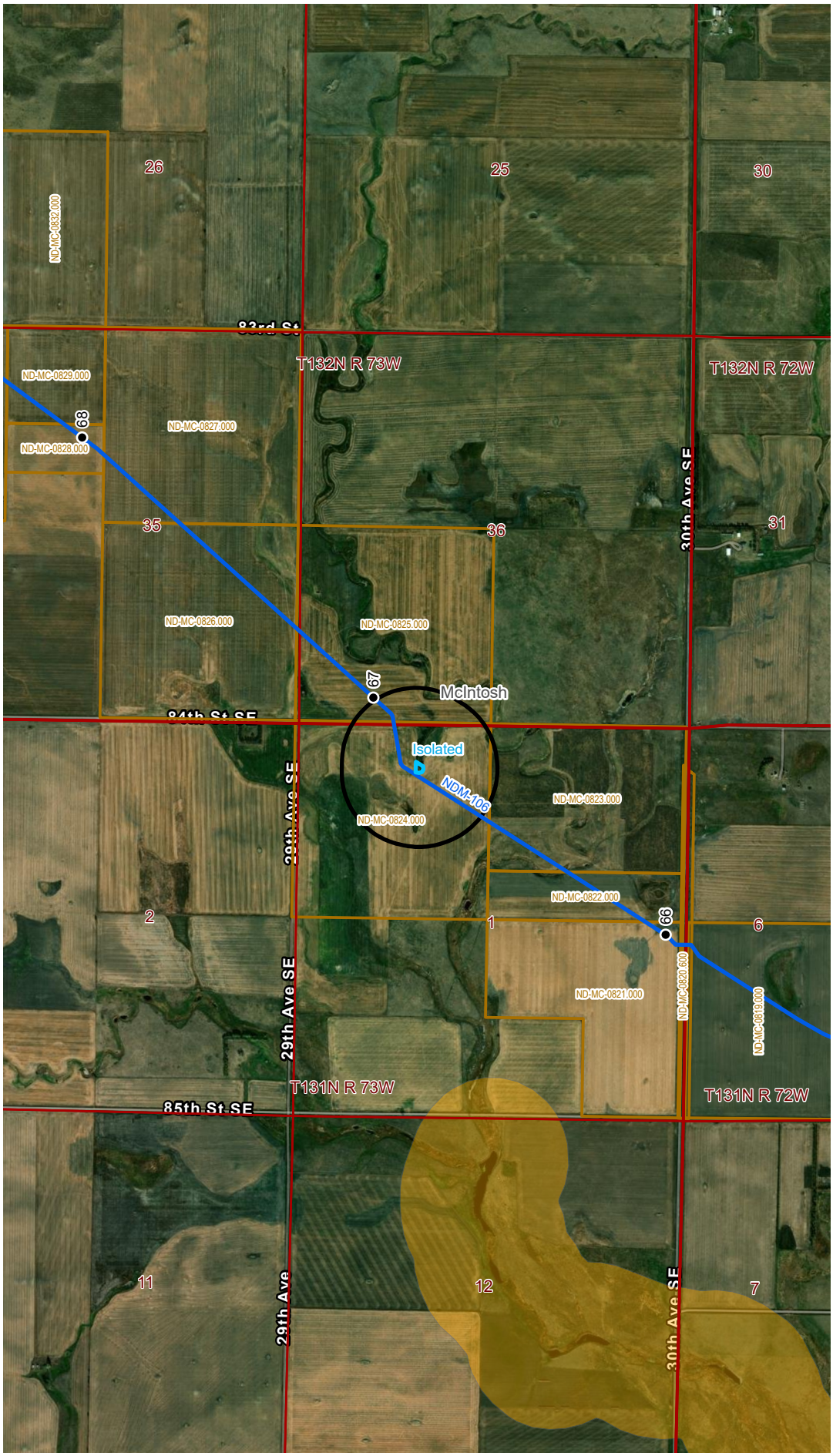
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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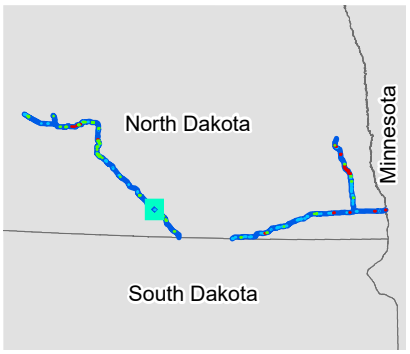

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
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Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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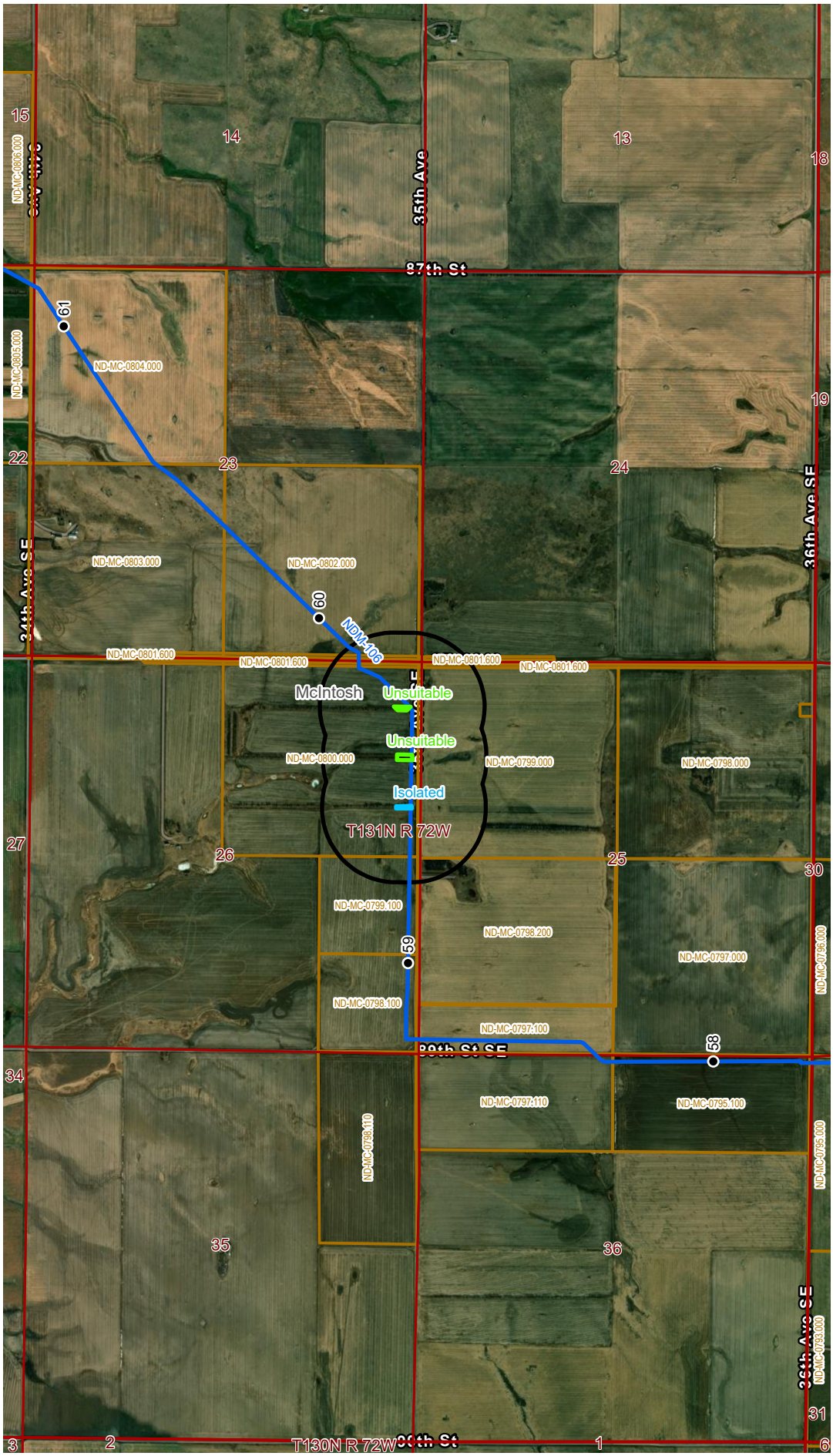
MC233_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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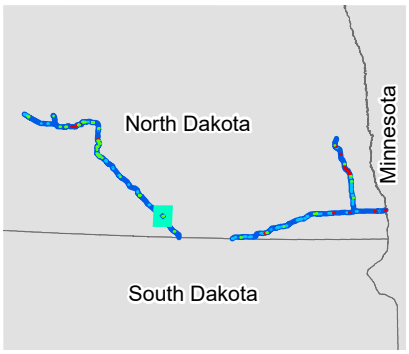

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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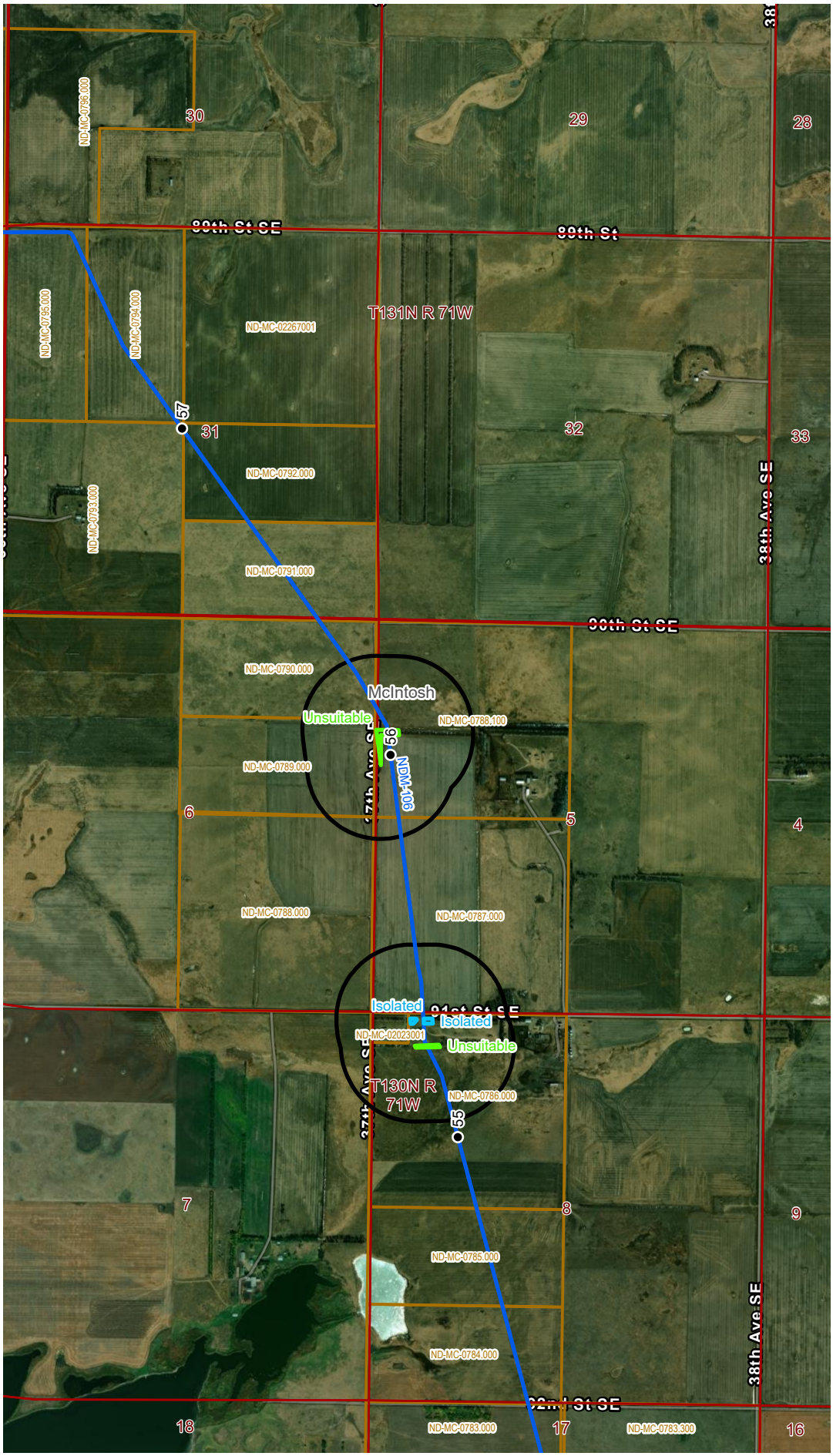
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 29 Sheet 29 of 71	**Drawing Number:** 1

MC233_NDakHPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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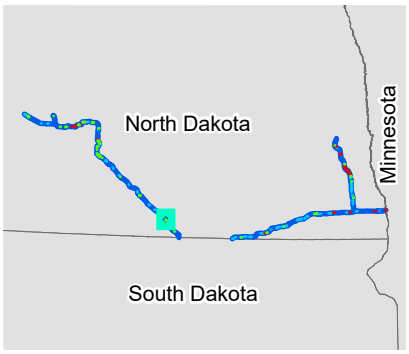

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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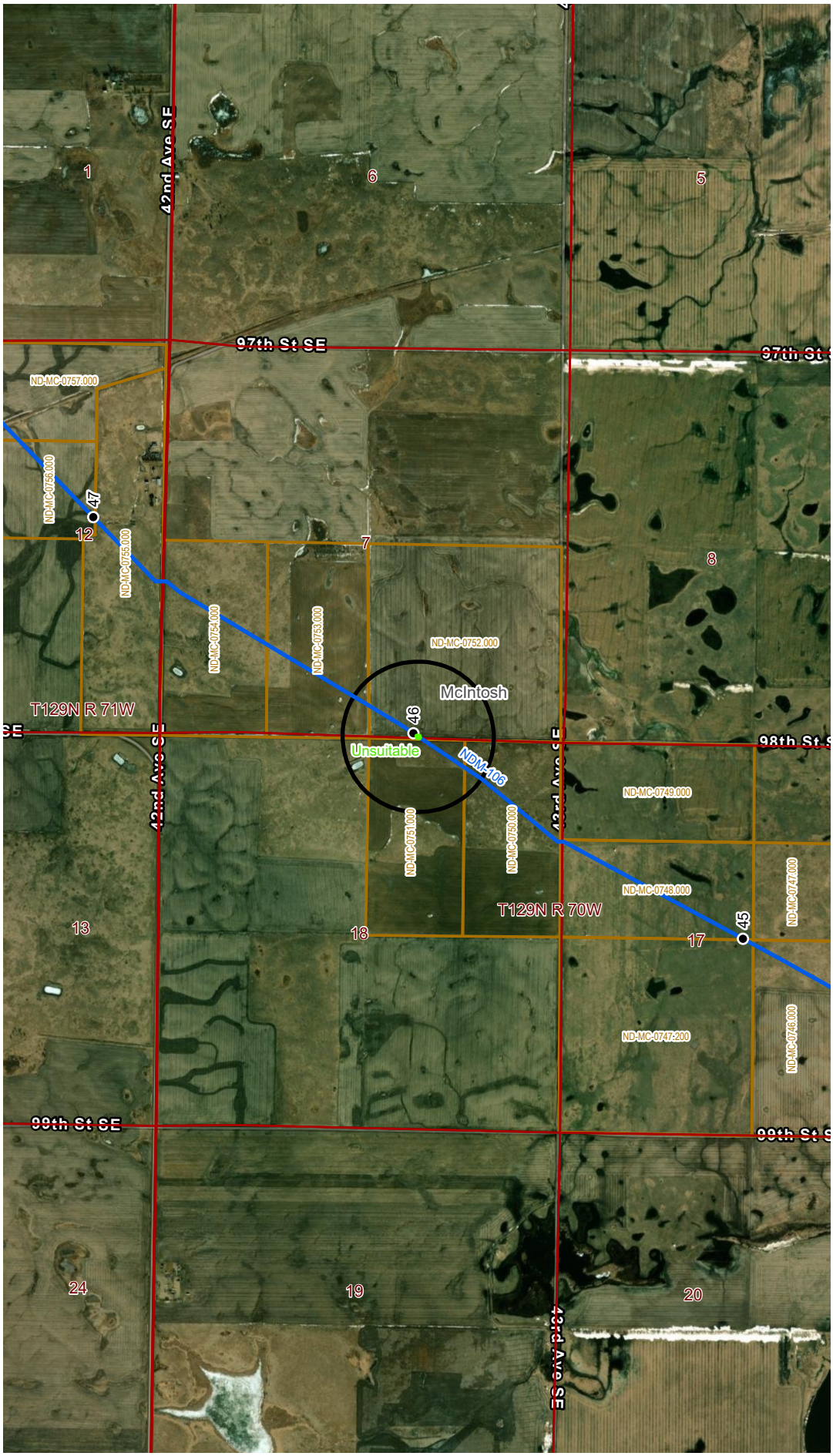
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 30 Sheet 30 of 71	**Drawing Number:** 1

MXD23_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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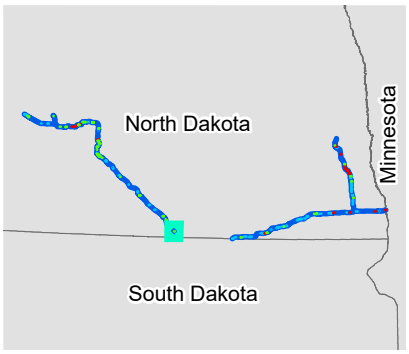

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

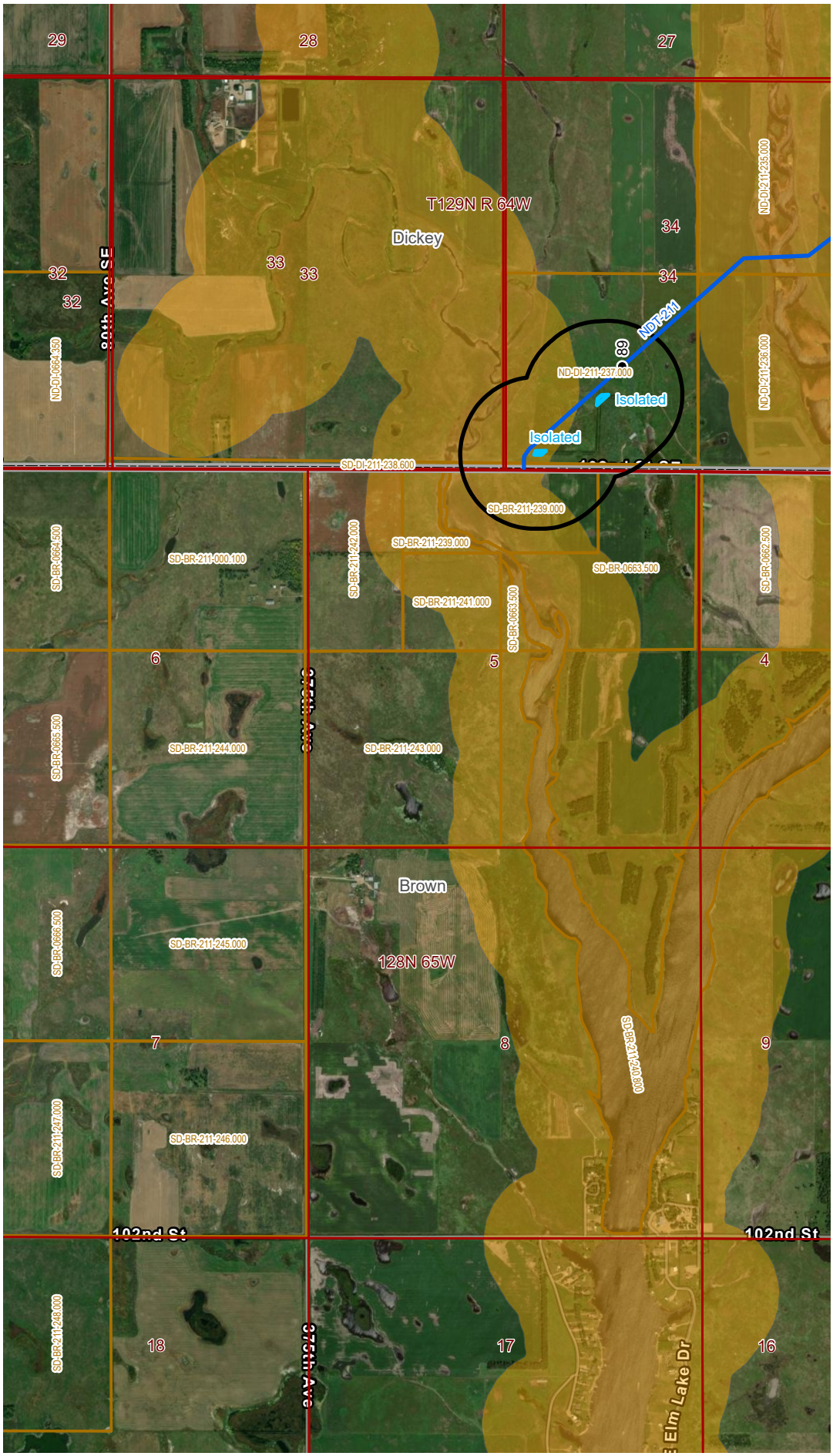
Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
E - 31 Sheet 31 of 71	1

MC233_NDandSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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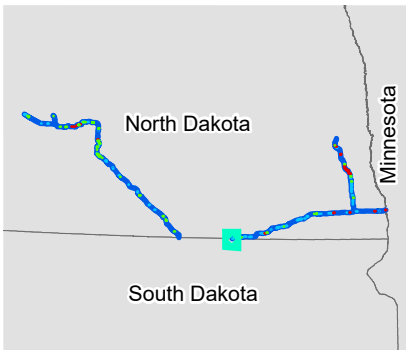

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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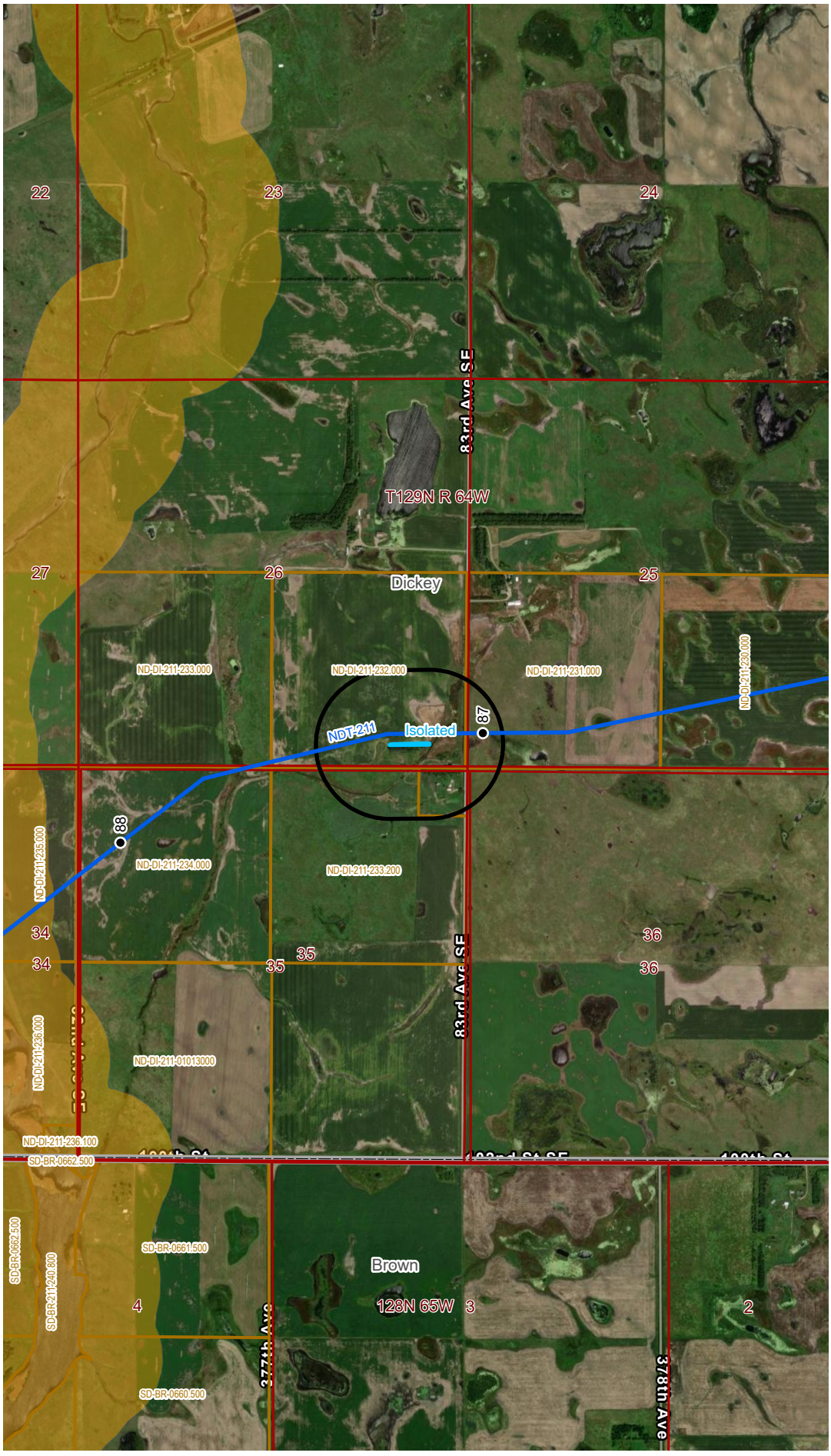
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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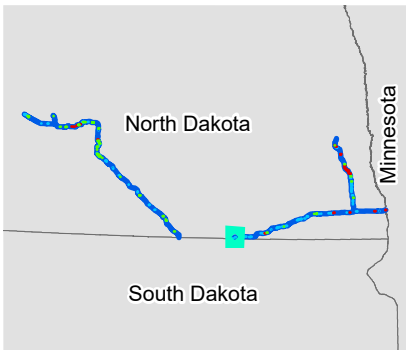

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
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- NLEB 1000ft Analysis Buffer
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- Property Parcel
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- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
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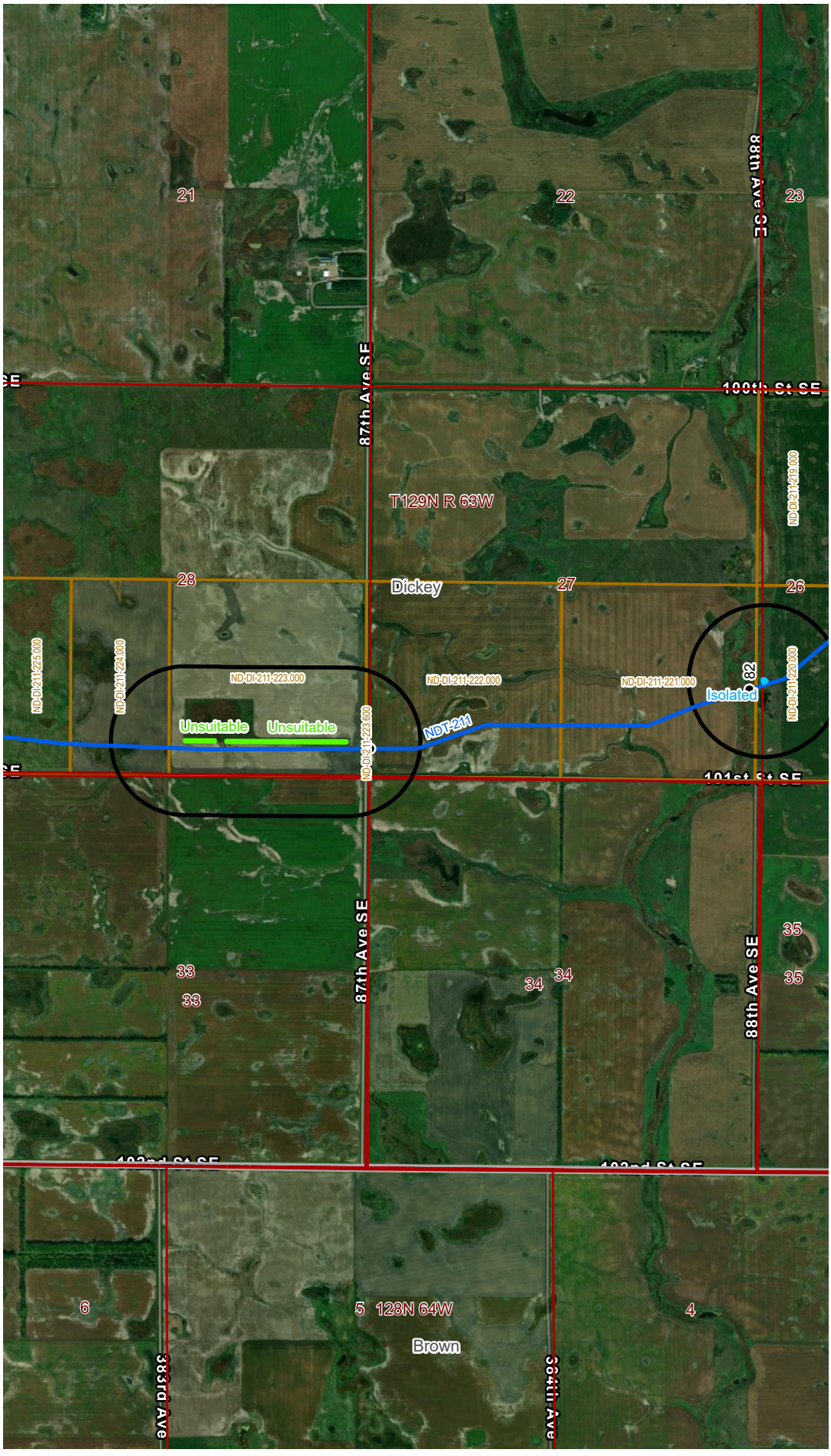
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 33 Sheet 33 of 71	**Drawing Number:** 1

MC233_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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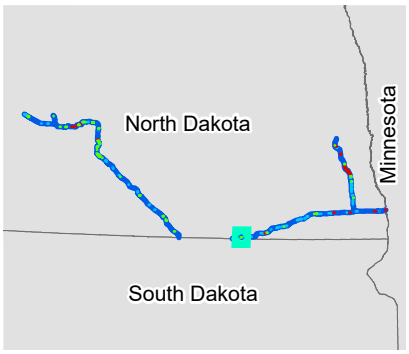

LEGEND

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FWS NLEB Habitat Type

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- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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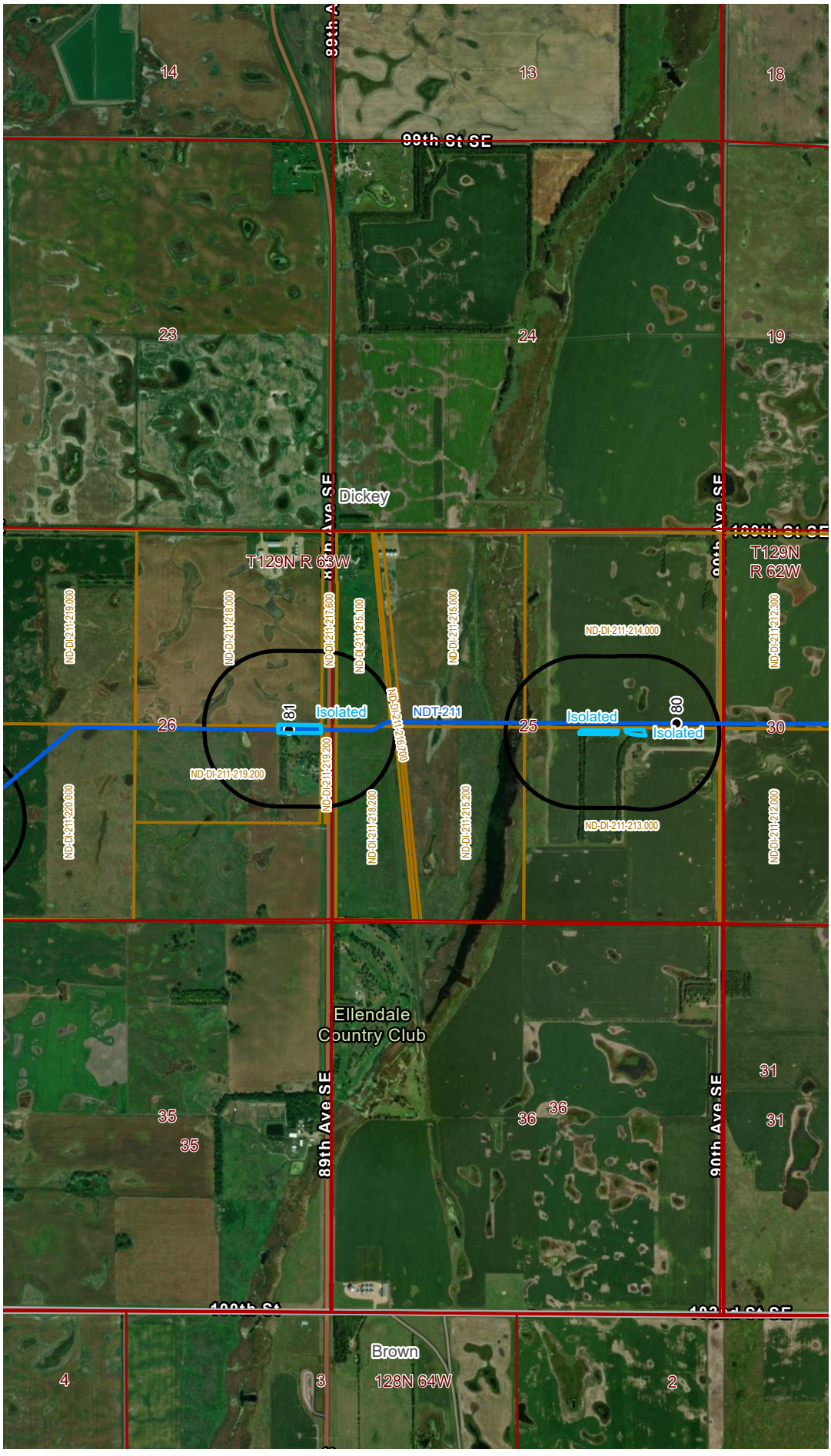
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 34 Sheet 34 of 71	**Drawing Number:** 1

MCE23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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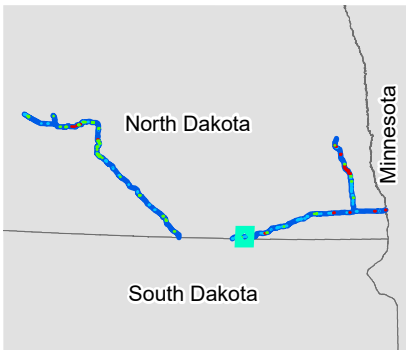

LEGEND

Legend

FWS NLEB Habitat Type

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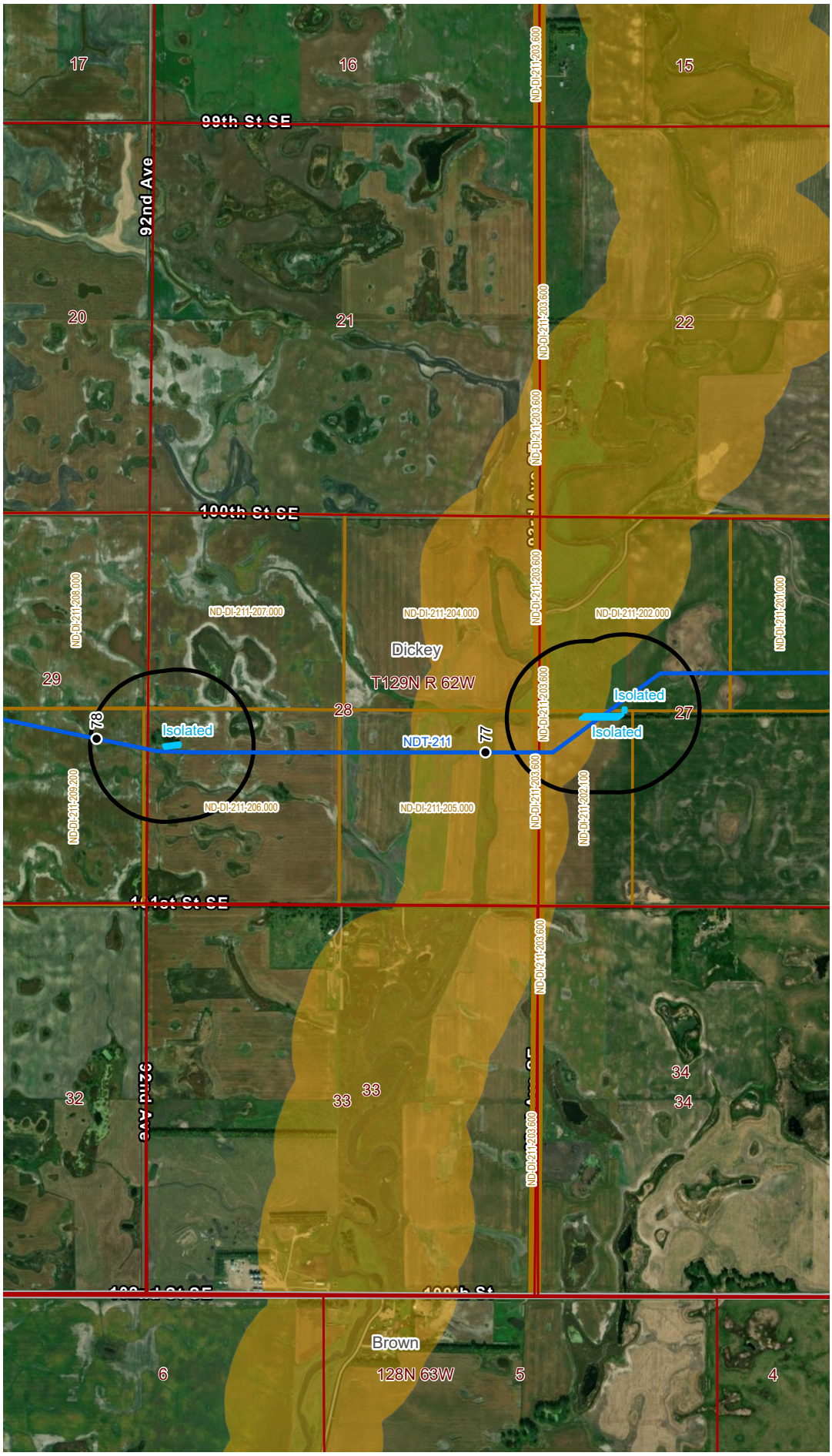
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 35 Sheet 35 of 71	**Drawing Number:** 1

MXD23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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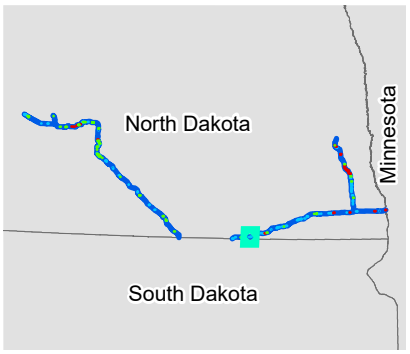

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FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

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0 1,000 2,000
Feet

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Sheet:	Drawing Number:
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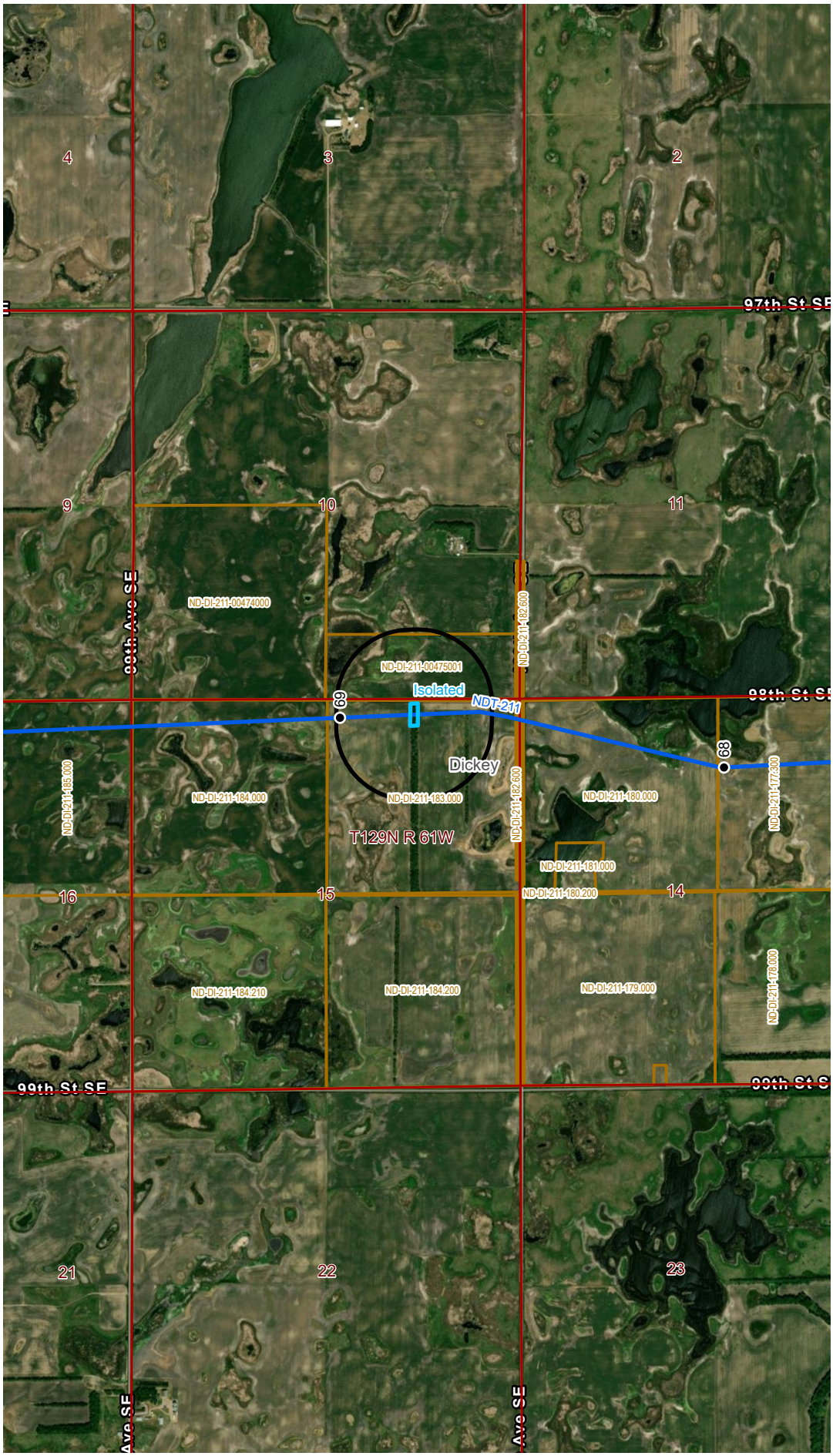
MXD233_NDakHPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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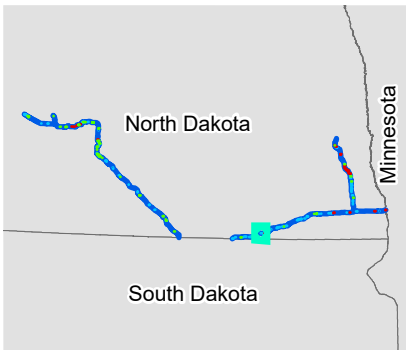

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

N

0 1,000 2,000
Feet

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Date:	Revised by:	Checked by:
Date:	Revised by:	Checked by:

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MIDWEST CARBON EXPRESS PROJECT

Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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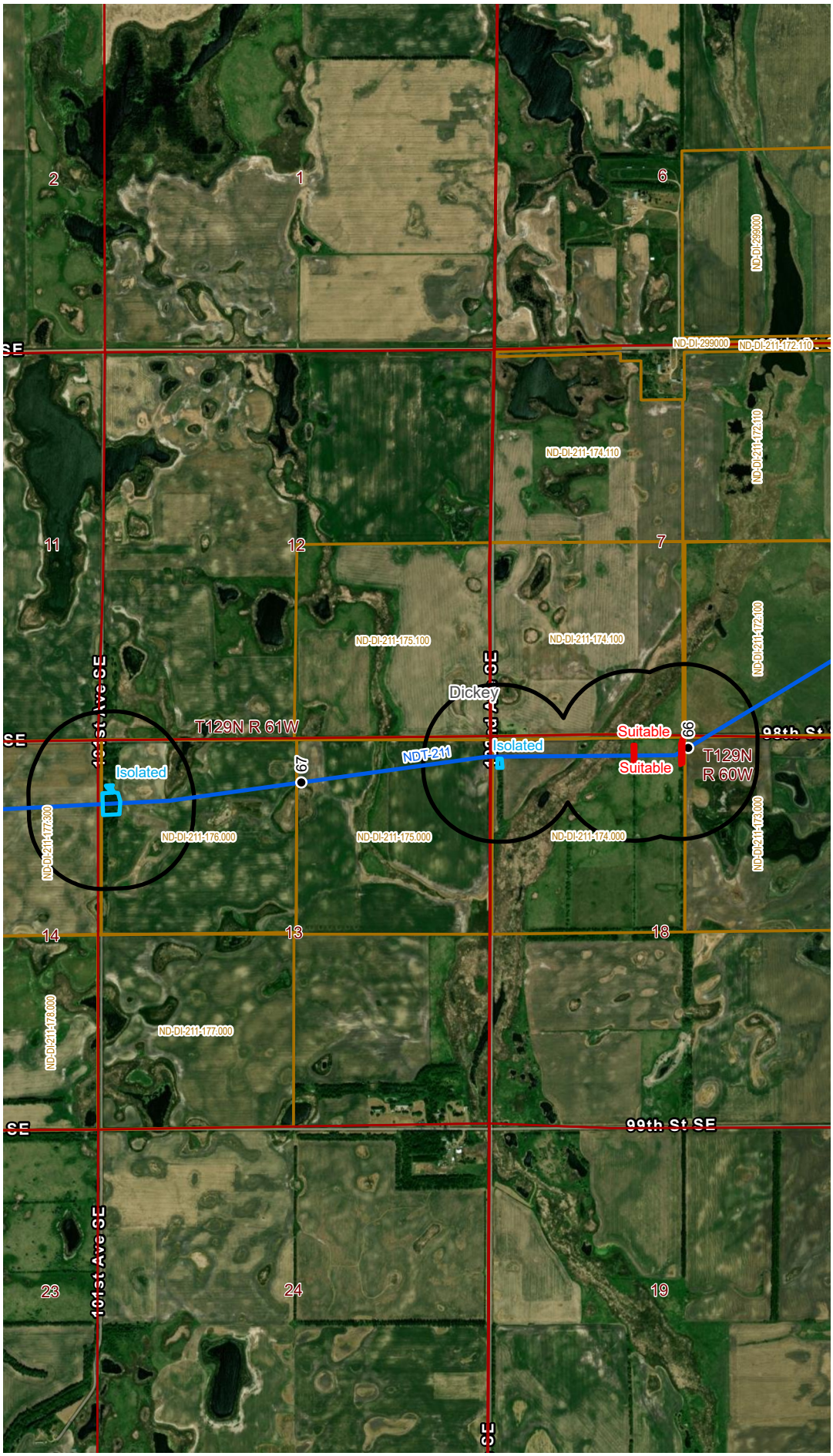
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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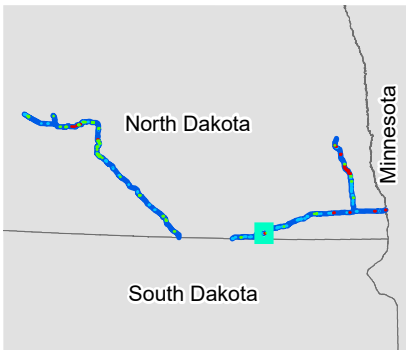

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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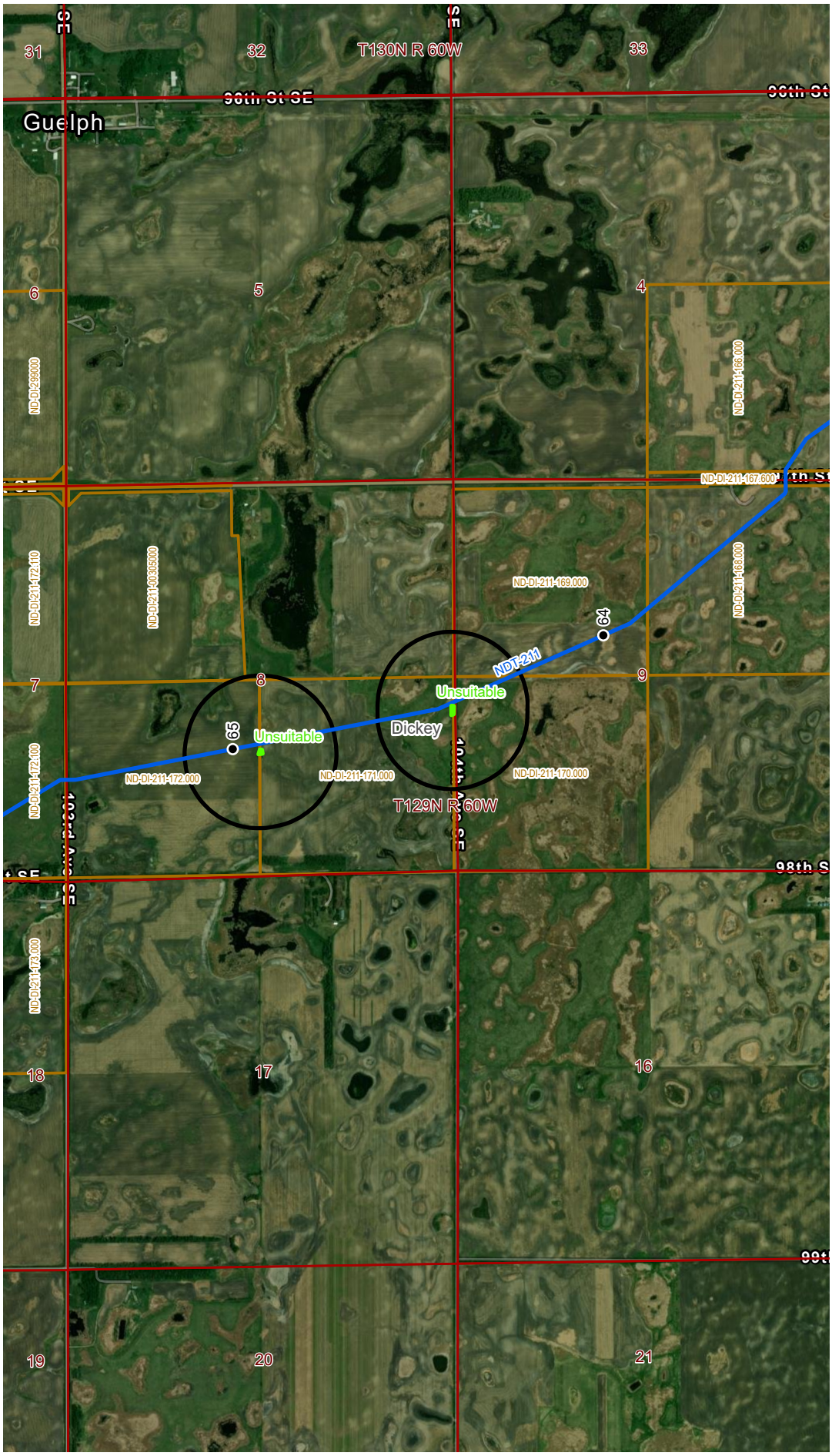
MCE23_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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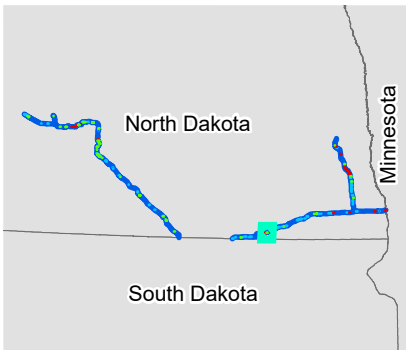

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
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Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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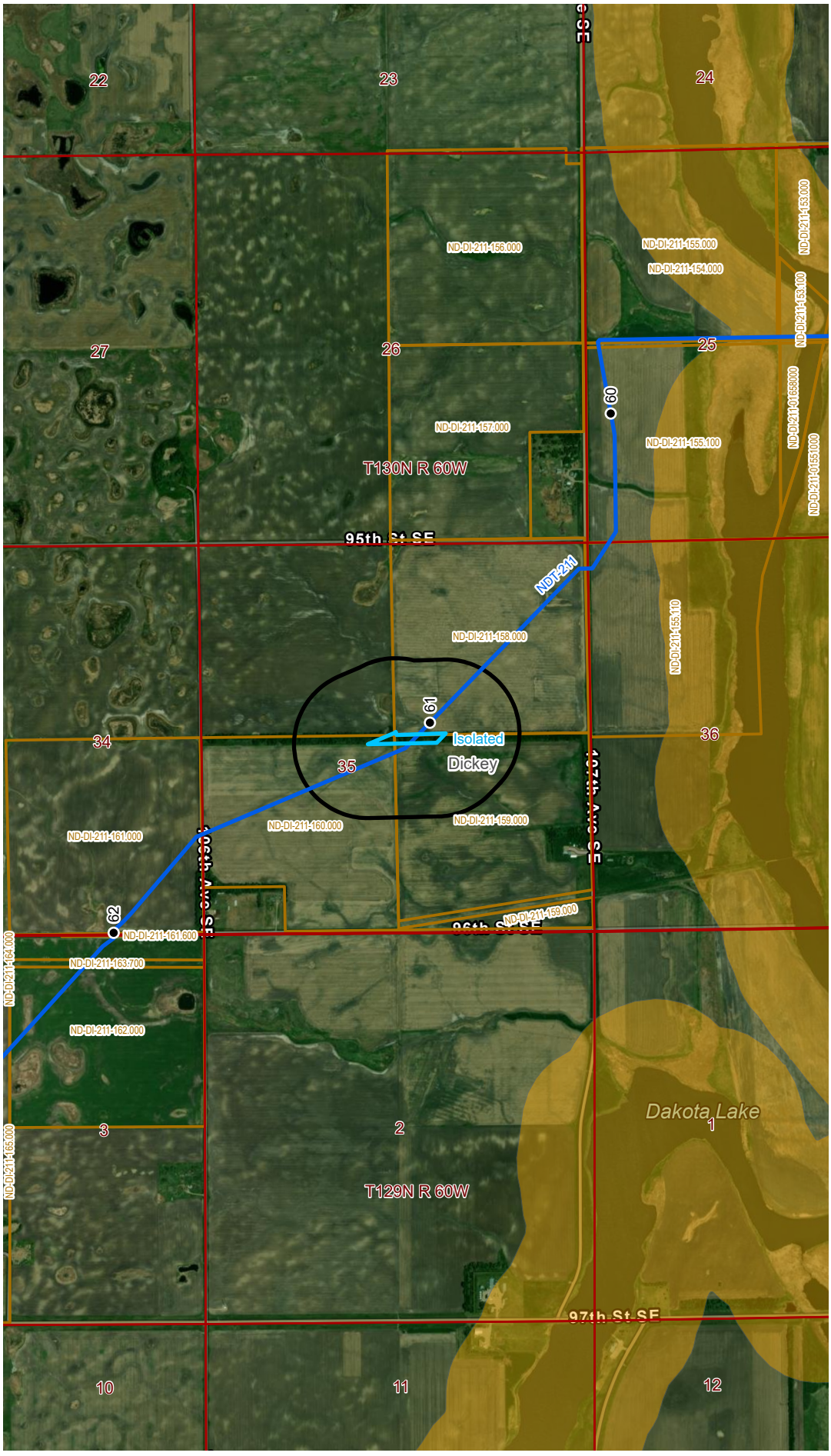
MCE23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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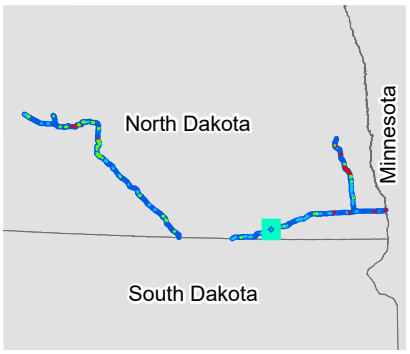

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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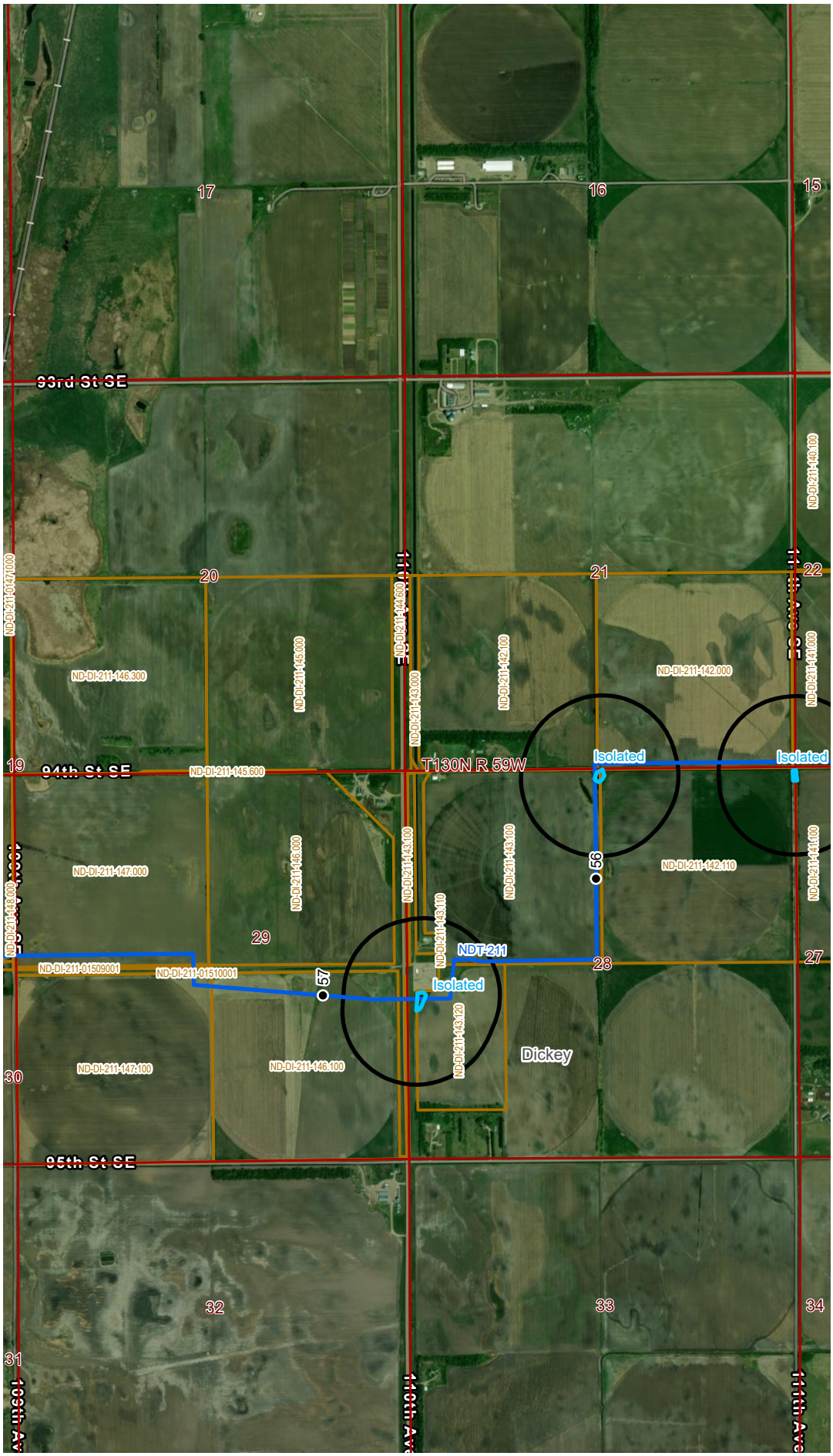
Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 40 Sheet 40 of 71	**Drawing Number:** 1

MCE23_NDdapNSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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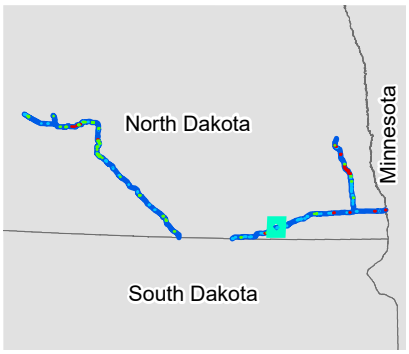

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
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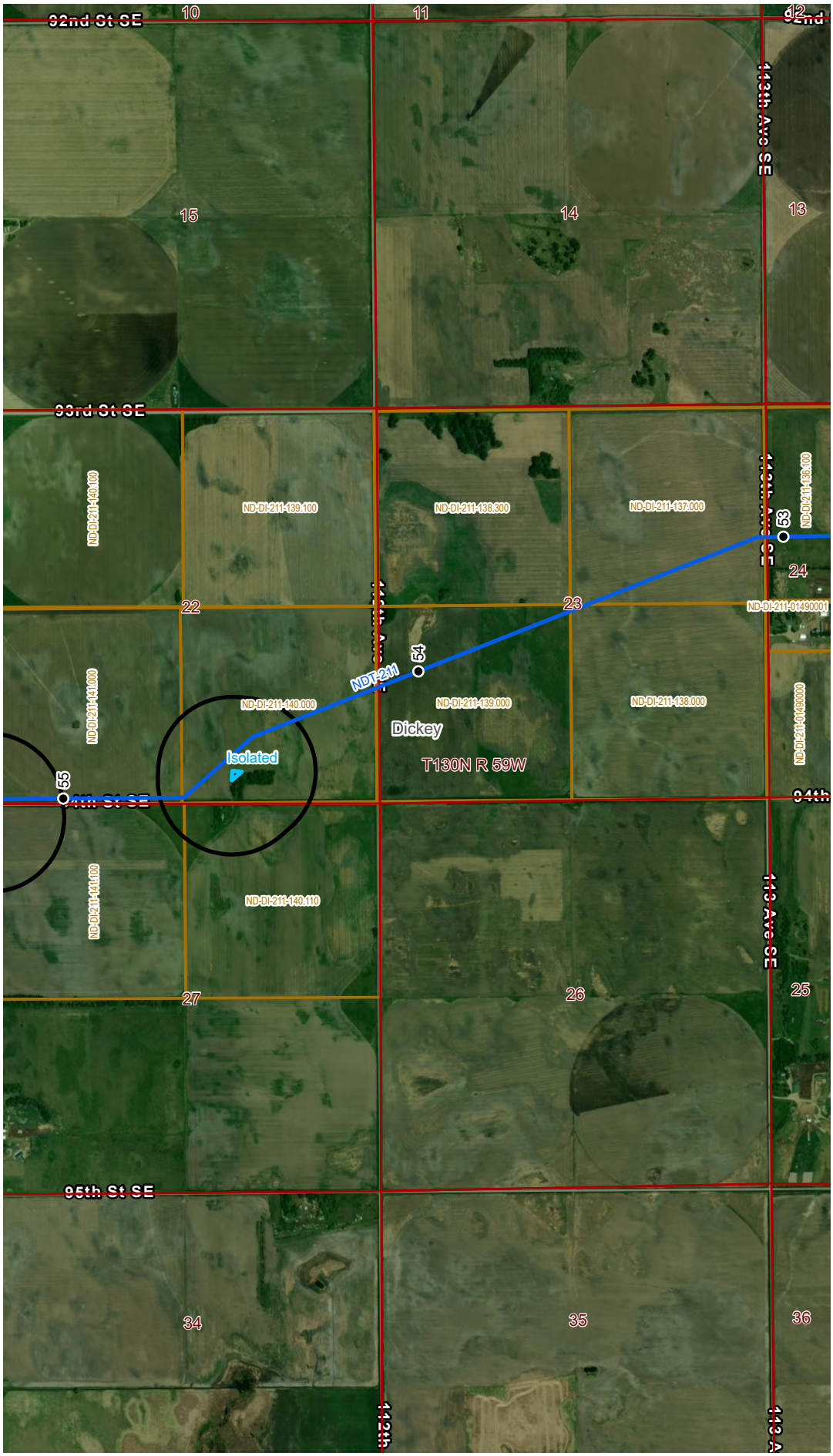
MCE23_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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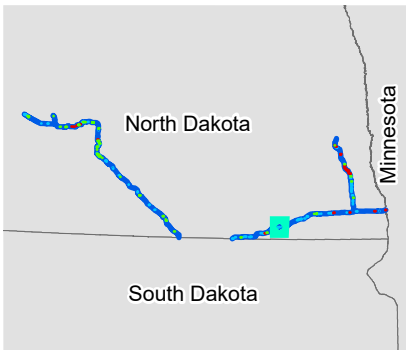

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
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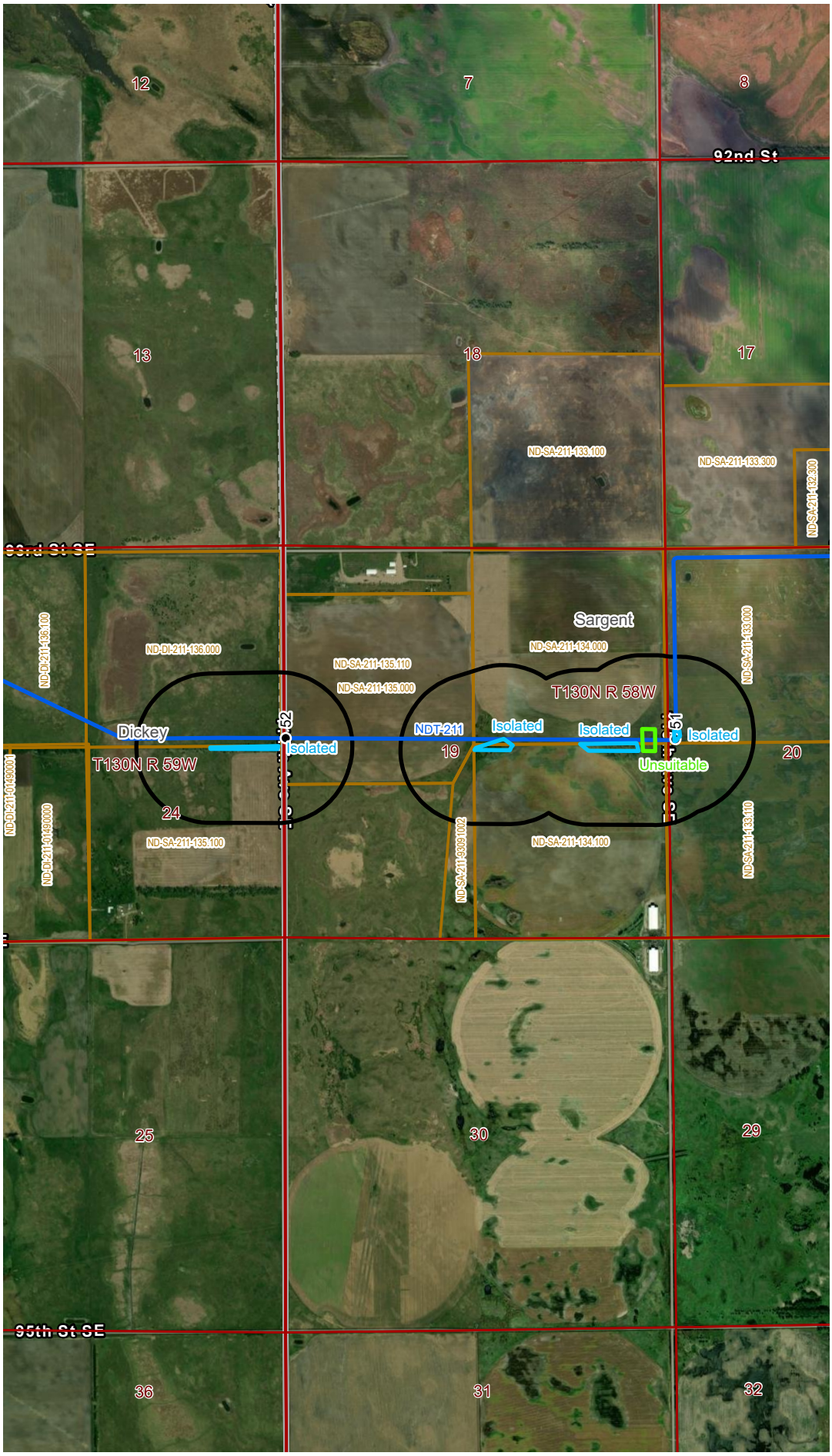
MXD23_NDakHPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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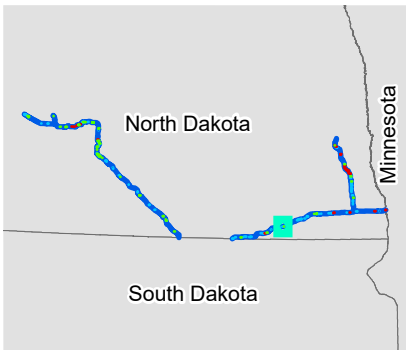

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
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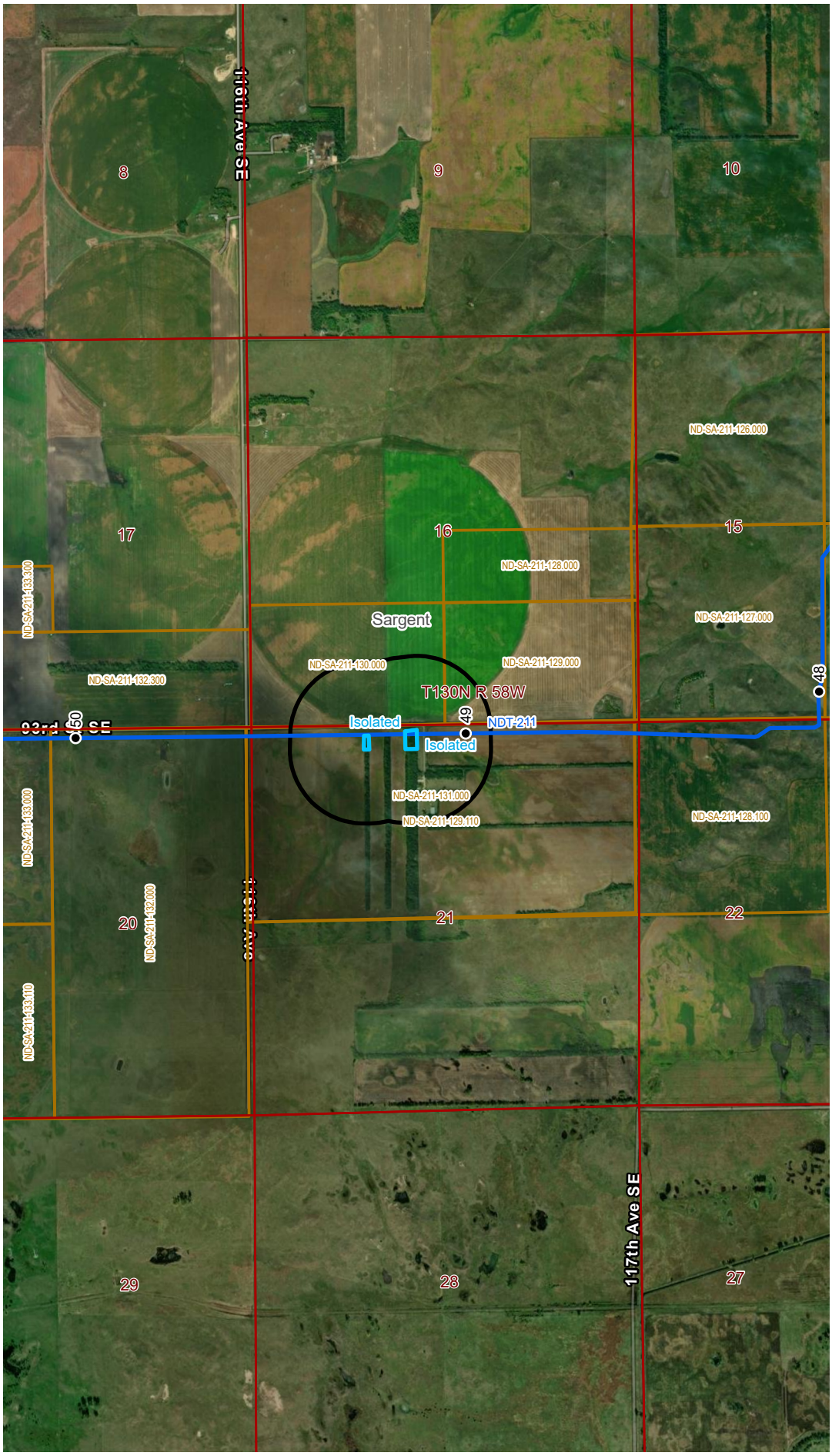
MXD23_NDakHPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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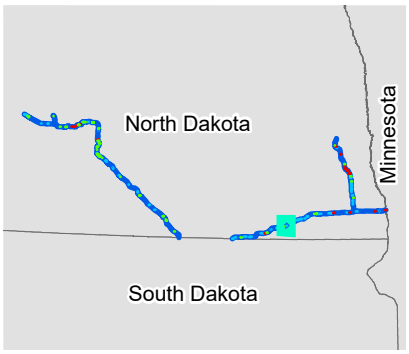

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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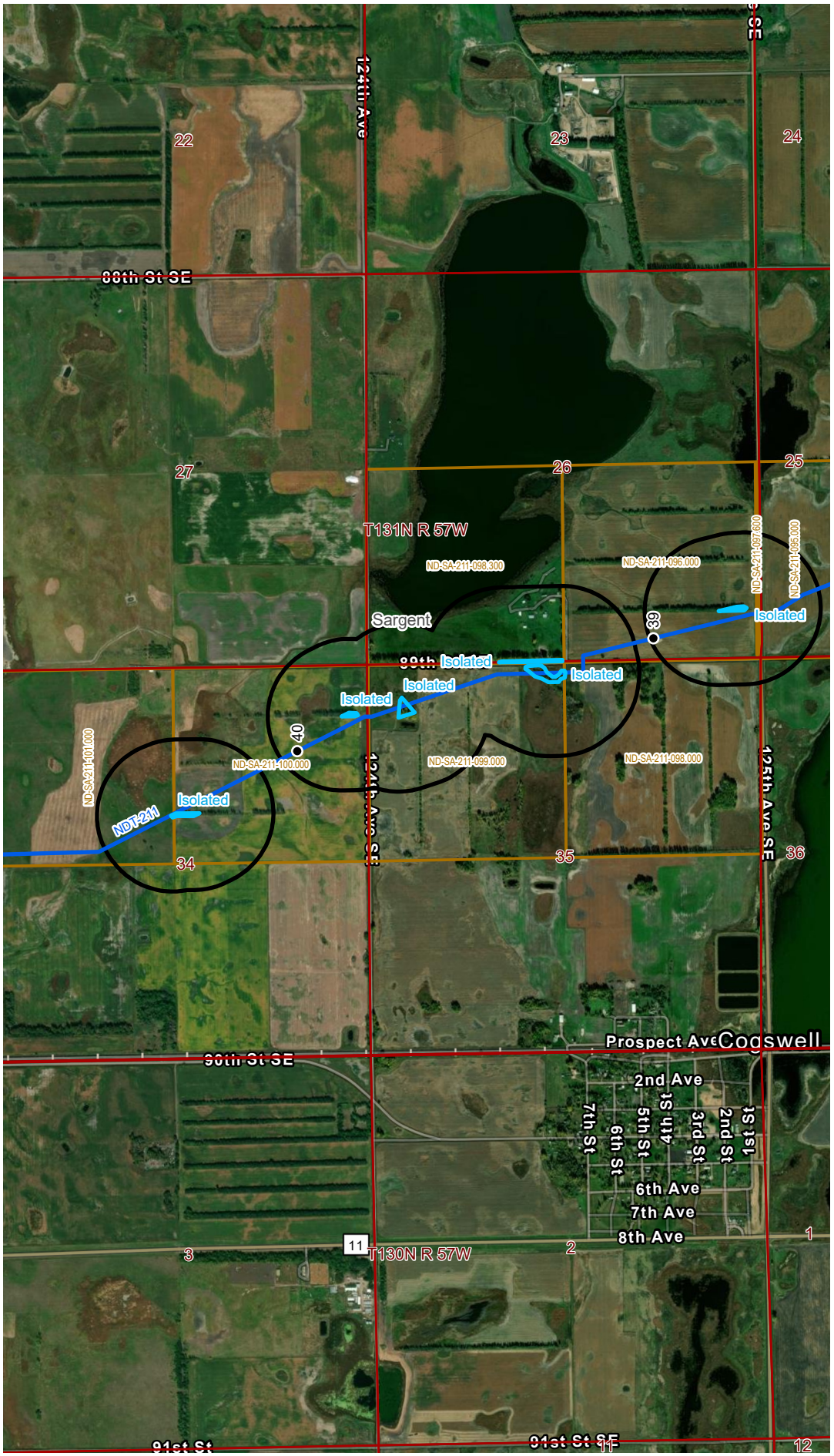
MCE23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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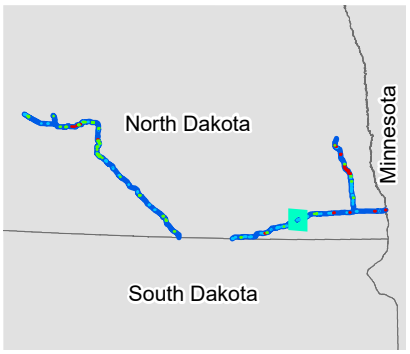

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

N

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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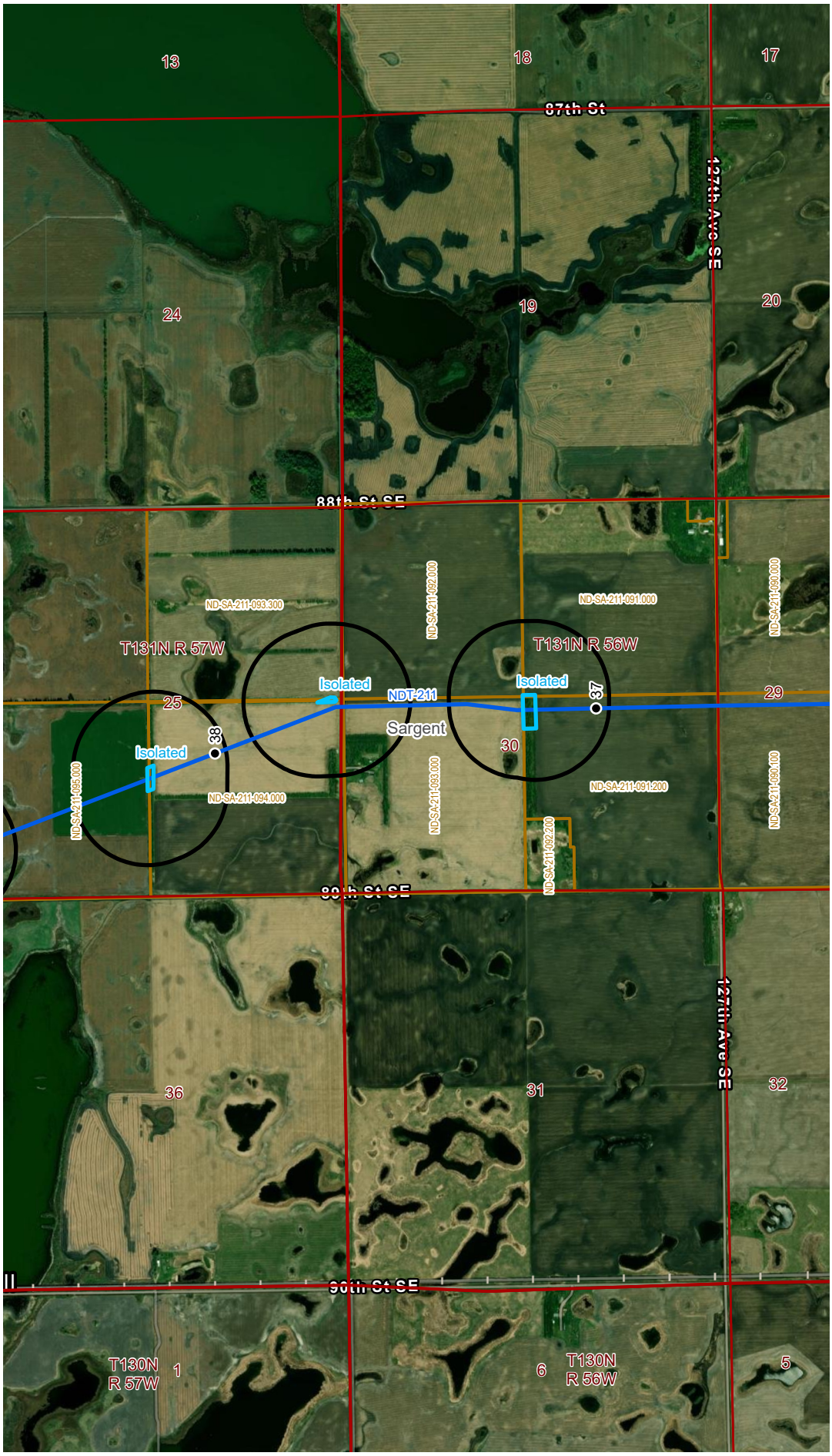
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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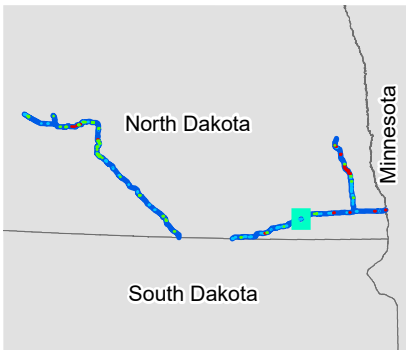

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

N

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

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Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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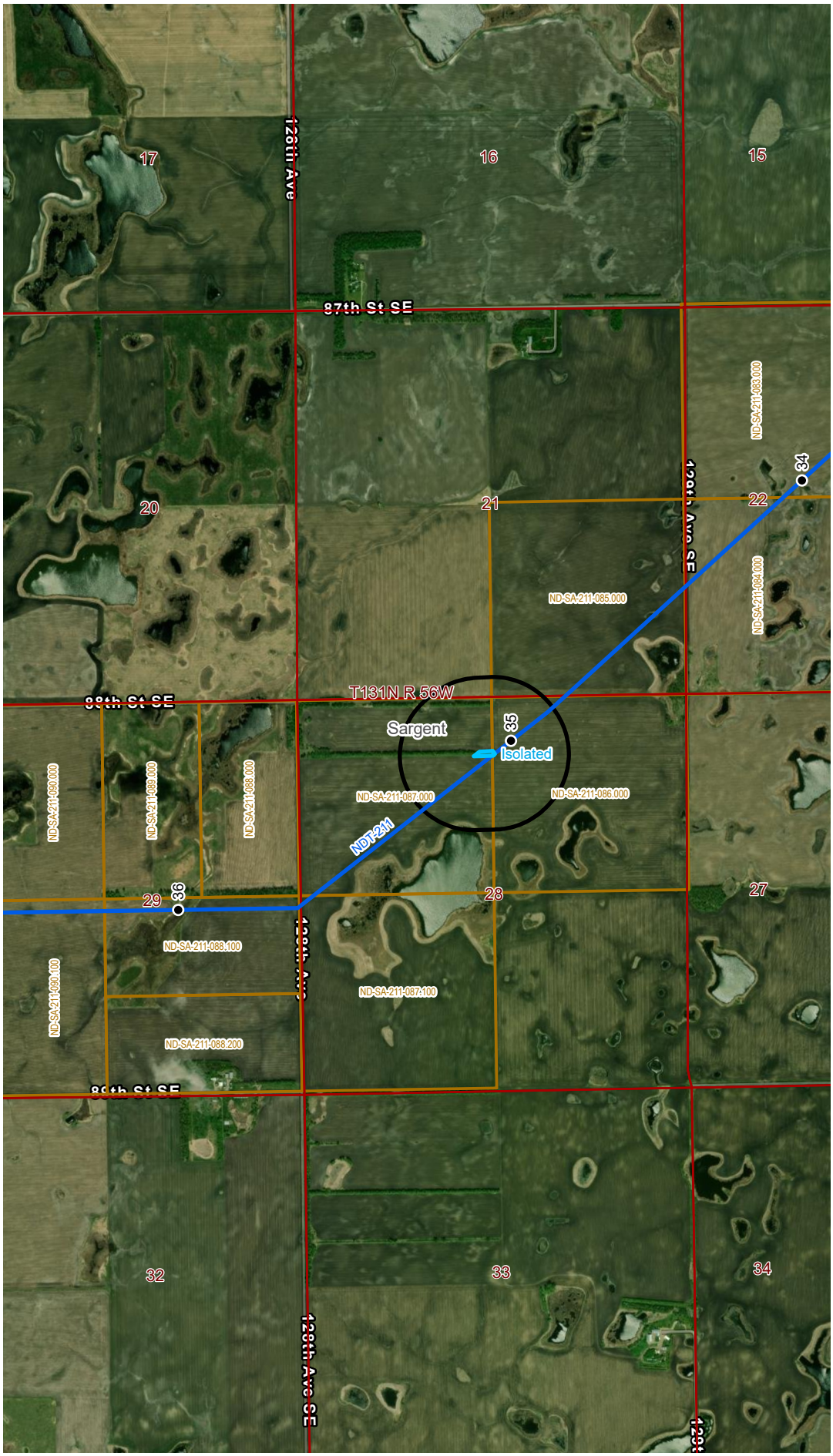
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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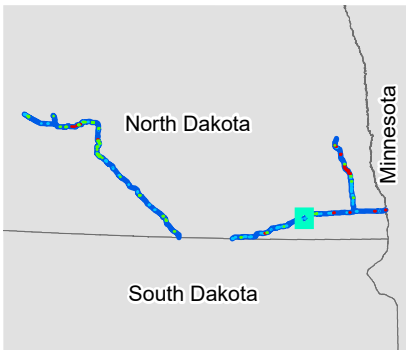

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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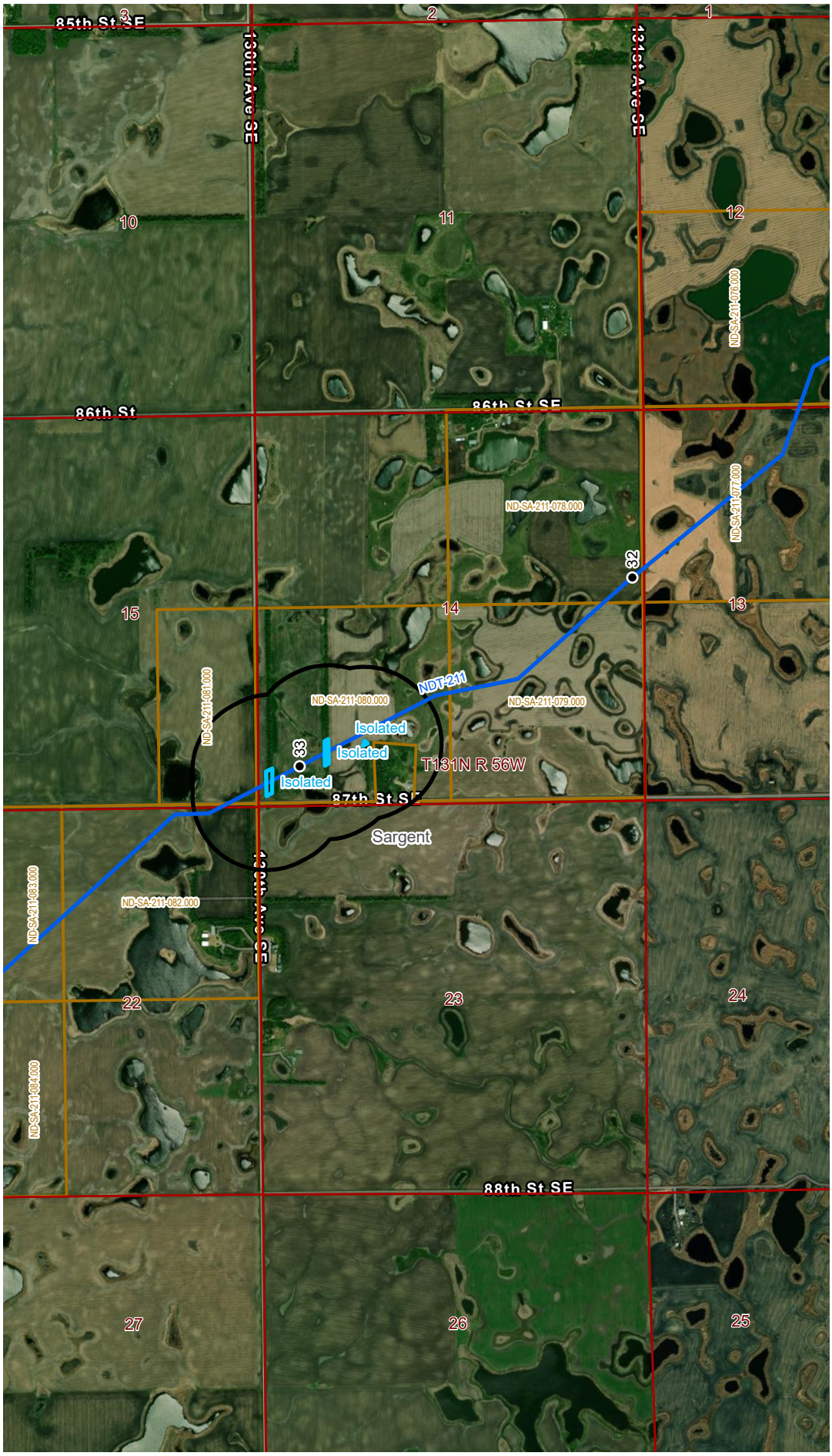
MCE23_NDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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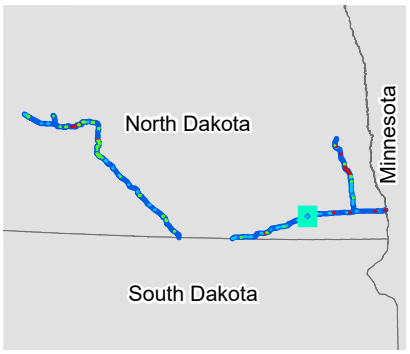

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
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- PLSS Section

0 1,000 2,000
Feet

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Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 48 Sheet 48 of 71	**Drawing Number:** 1

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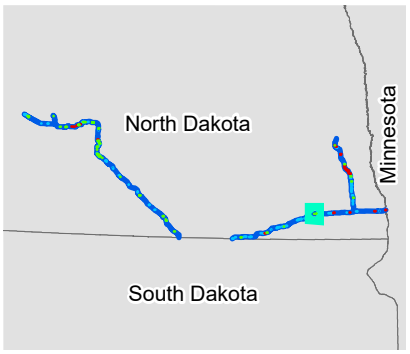
NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



VICINITY MAP



LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
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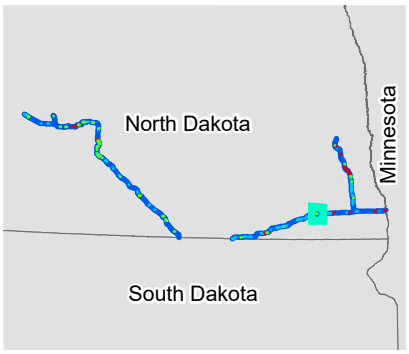
MC233_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



VICINITY MAP



LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
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- Project Route
- Milepost
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0 1,000 2,000
Feet

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SUMMIT CARBON SOLUTIONS

MIDWEST CARBON EXPRESS PROJECT

Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

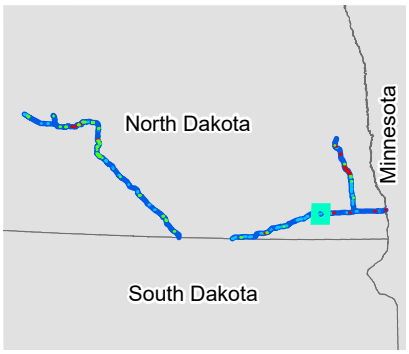
Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 50 Sheet 50 of 71	**Drawing Number:** 1

MCE23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



VICINITY MAP



LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

N

0 1,000 2,000
Feet

REVISIONS

Date:	Revised by:	Checked by:
Date:	Revised by:	Checked by:
Date:	Revised by:	Checked by:

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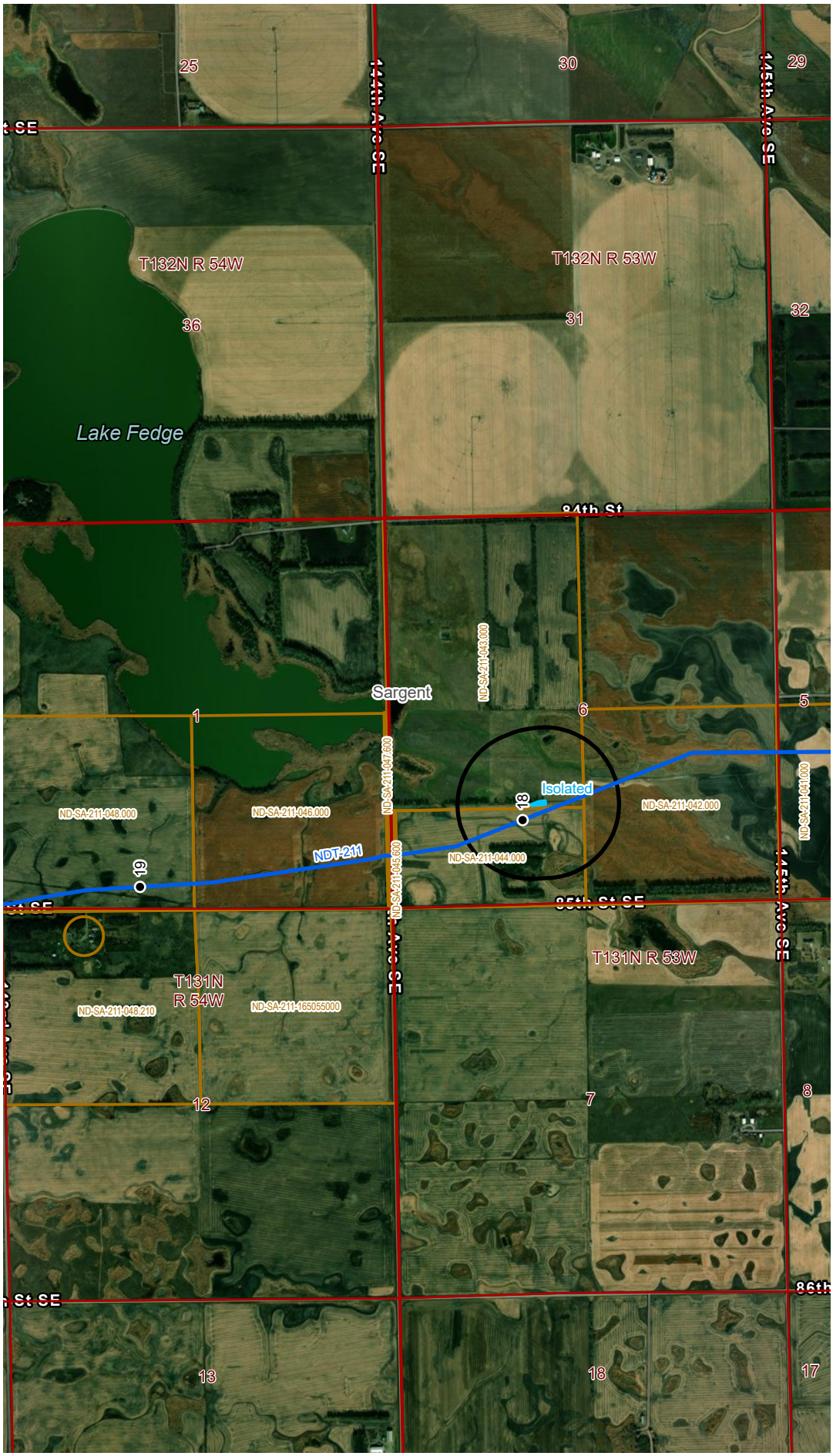
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 51 Sheet 51 of 71	Drawing Number: 1

MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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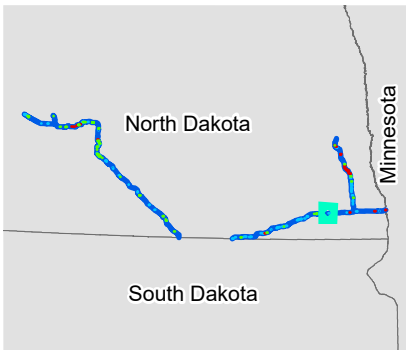

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
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- Milepost
- Property Parcel
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0 1,000 2,000
Feet

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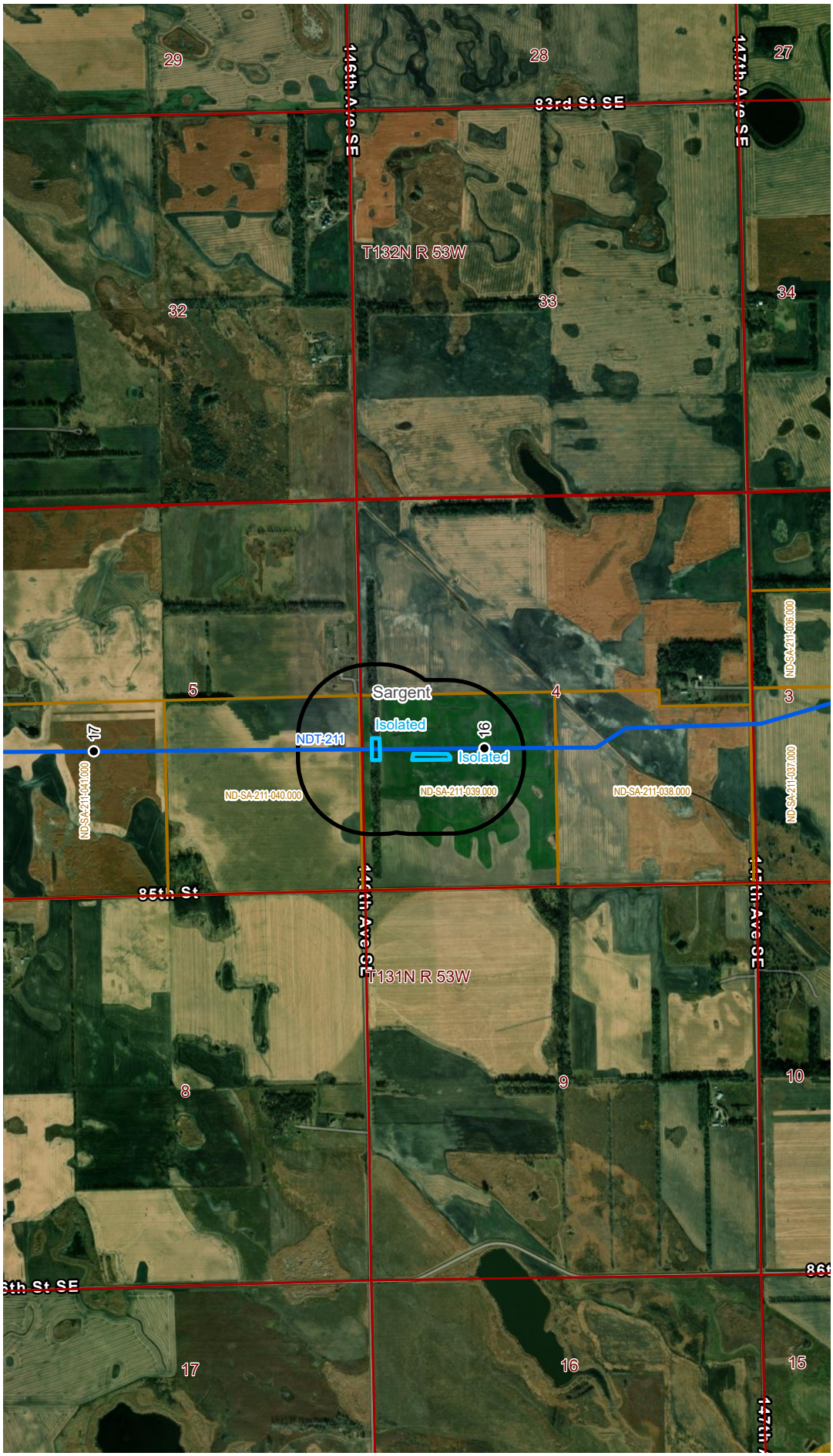
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
E - 52 Sheet 52 of 71	1

MCE23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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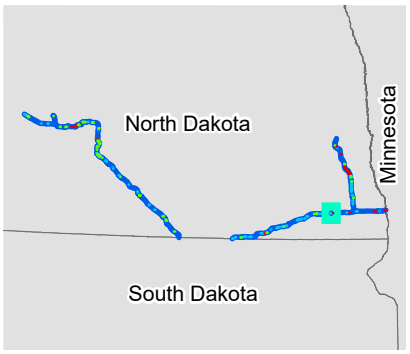

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
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- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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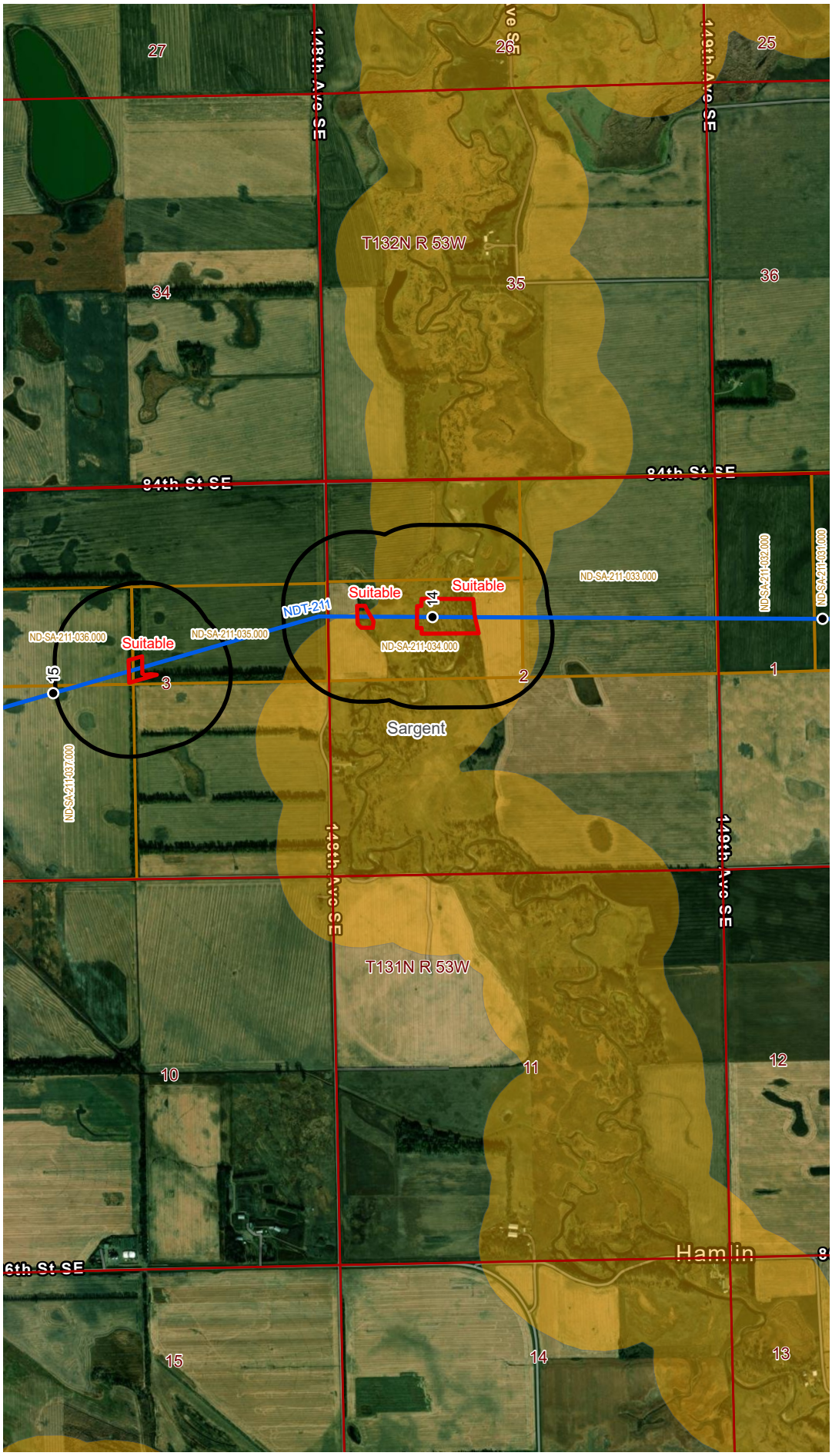
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 53 Sheet 53 of 71	Drawing Number: 1

MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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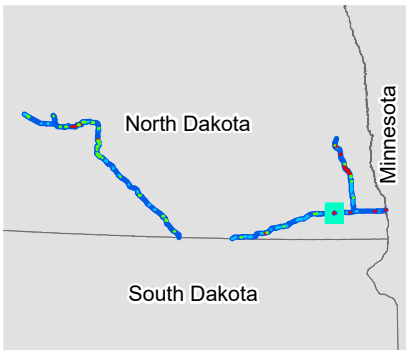

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
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- Unsuitable

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- Milepost
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- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
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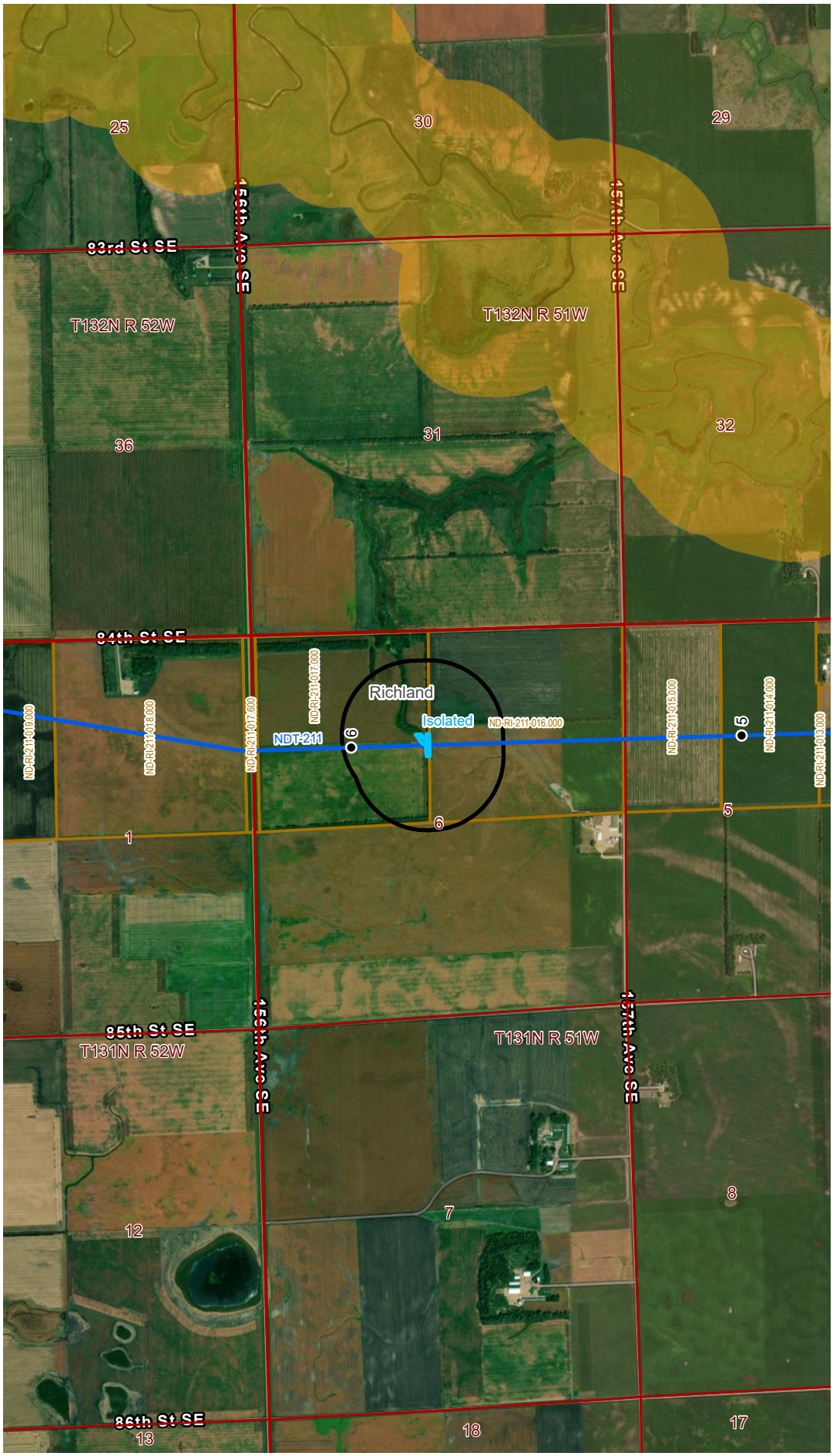
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 54 Sheet 54 of 71	**Drawing Number:** 1

MXD23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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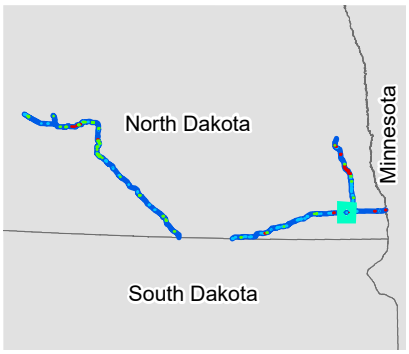

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

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- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

Figure Number:
Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
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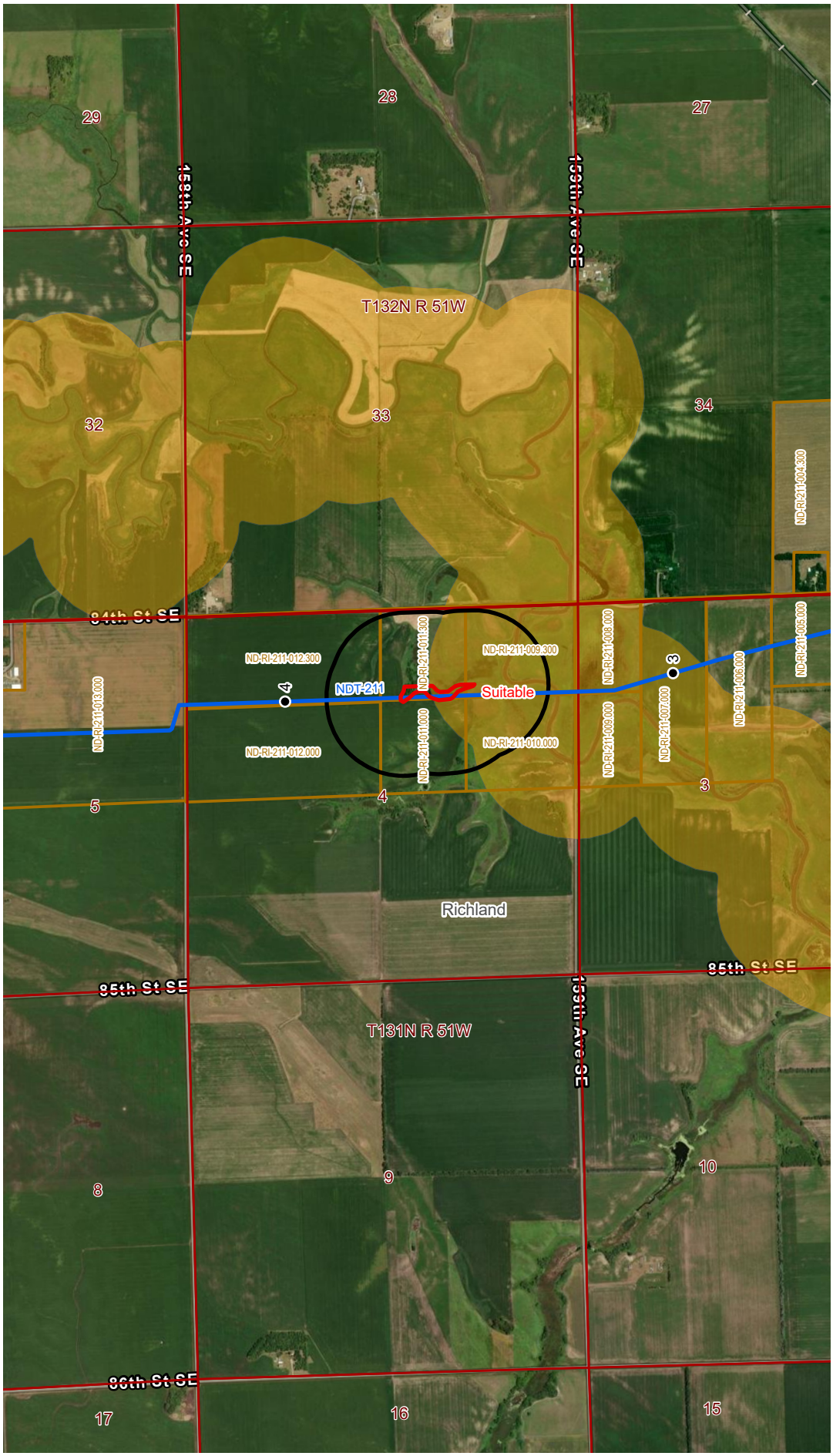
MC233_NDakHSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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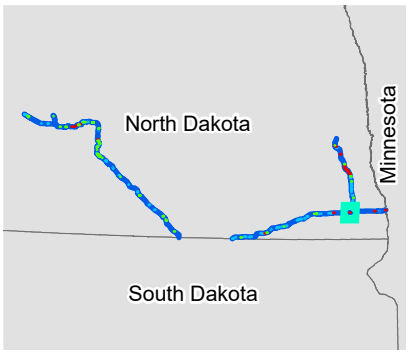

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable
- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)
- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
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Appendix E

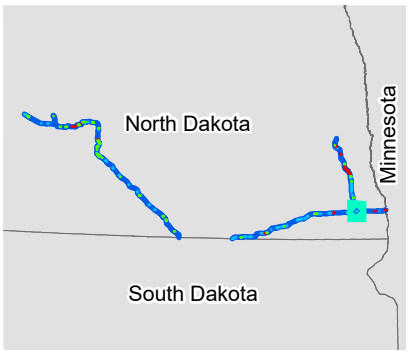
Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 56 Sheet 56 of 71	**Drawing Number:** 1

MCE23_NDakotaSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



VICINITY MAP



LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
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- PLSS Section

0 1,000 2,000
Feet

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Figure Title:
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Appendix E

Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

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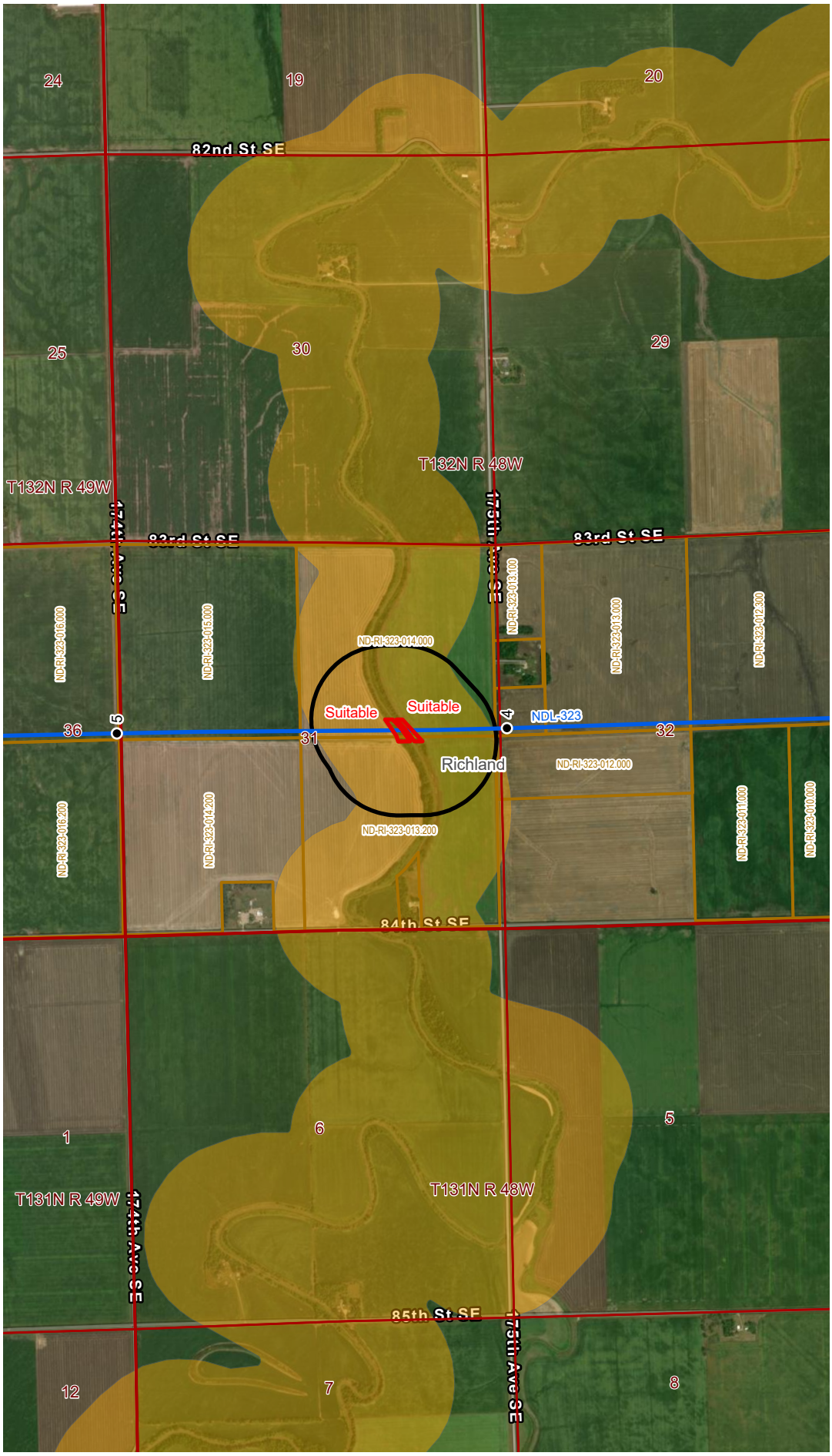
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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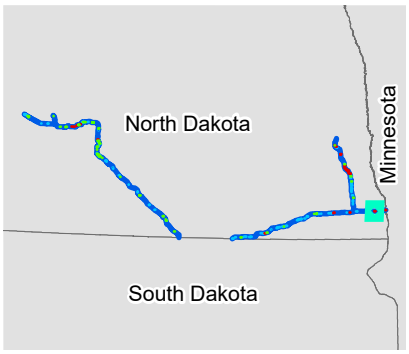

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
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- NLEB 1000ft Analysis Buffer
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0 1,000 2,000
Feet

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Northern Long-eared Bat Habitat Assessment Locations

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Appendix E

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1:24,000	NAD 1983 UTM Zone 14N

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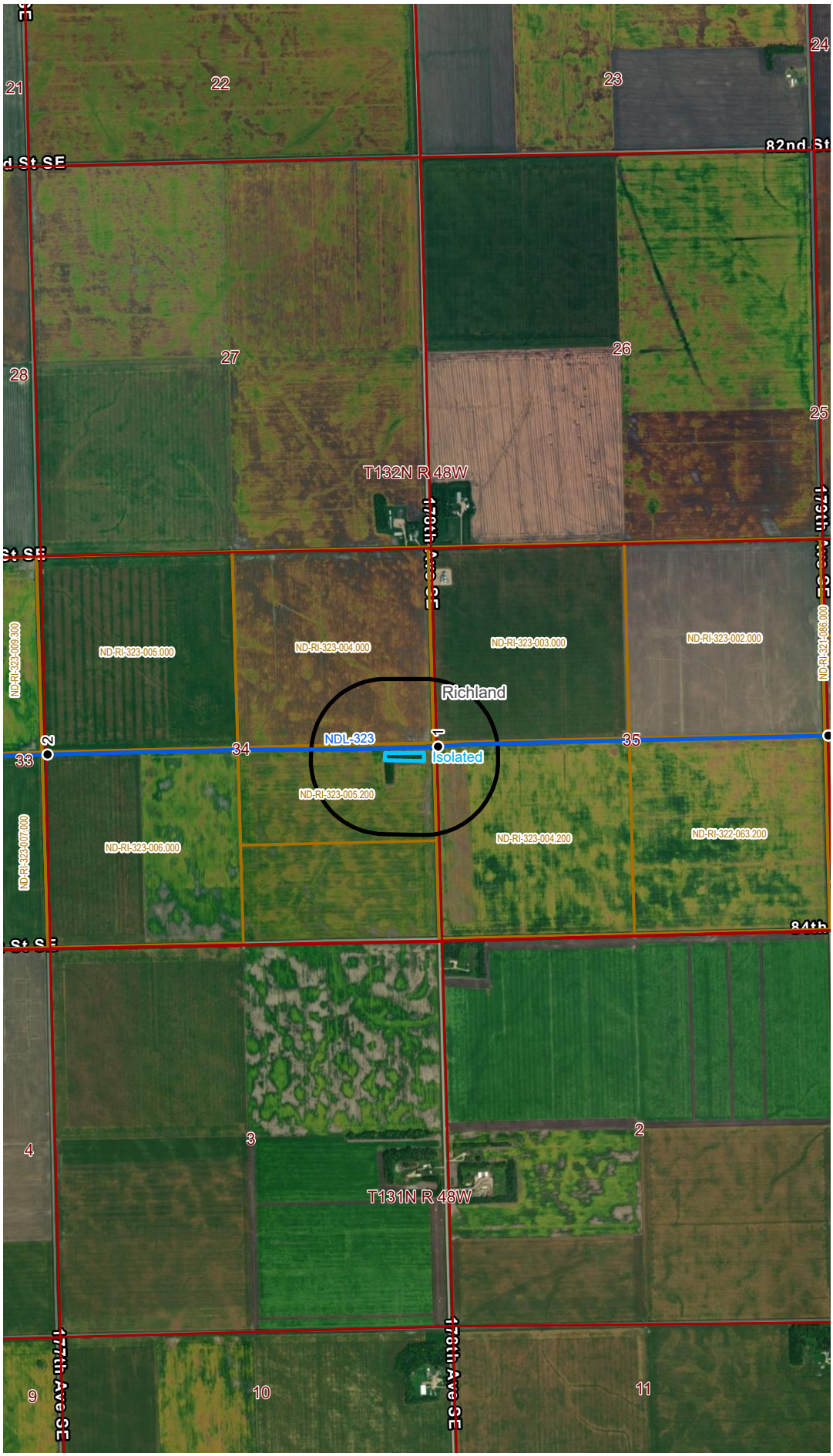
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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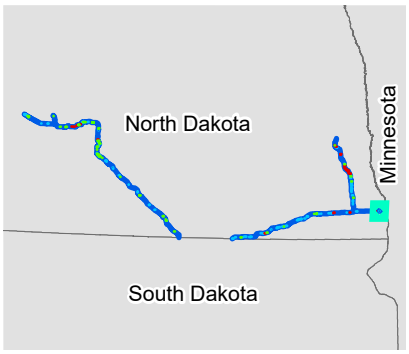

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
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0 1,000 2,000
Feet

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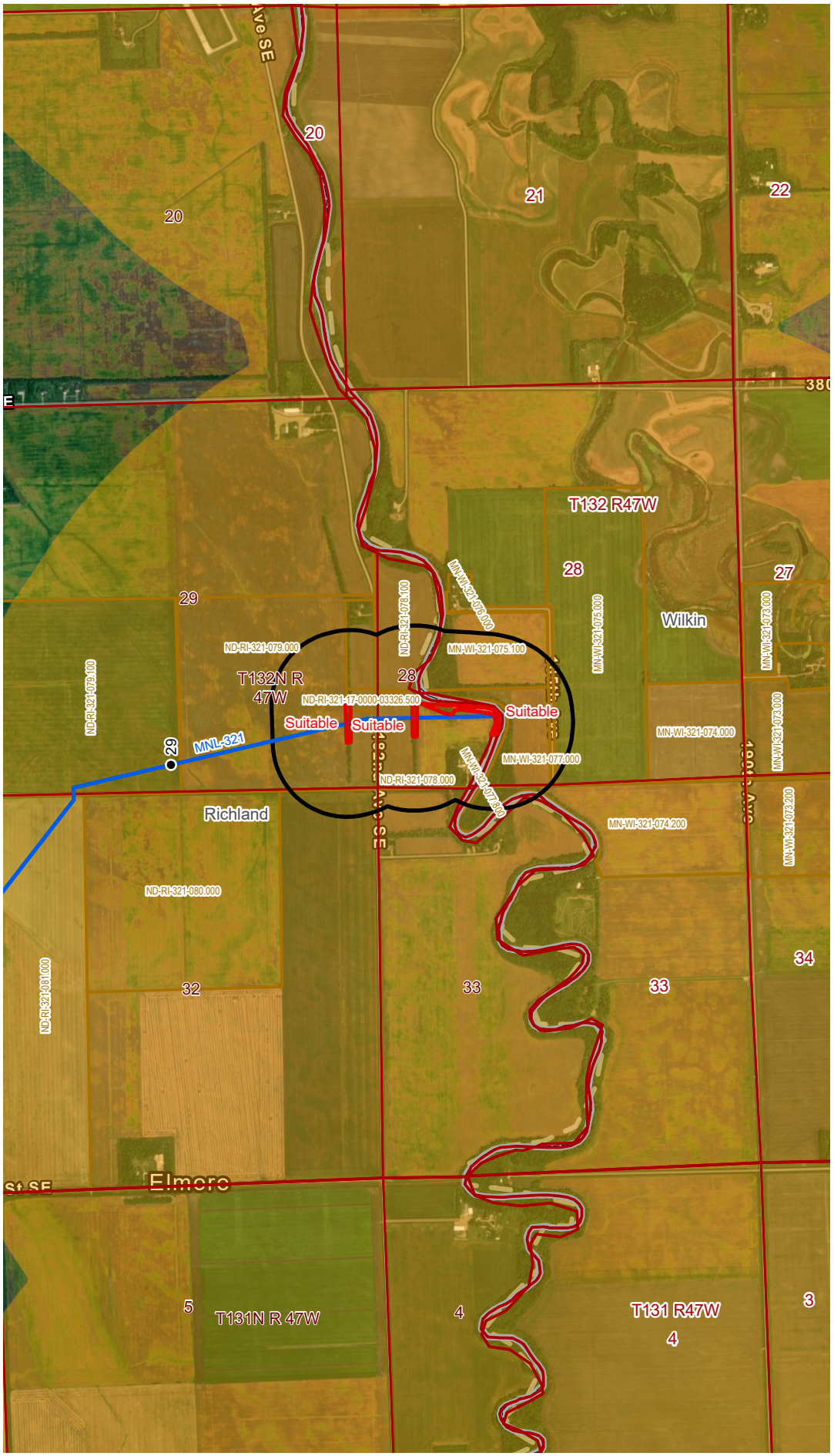
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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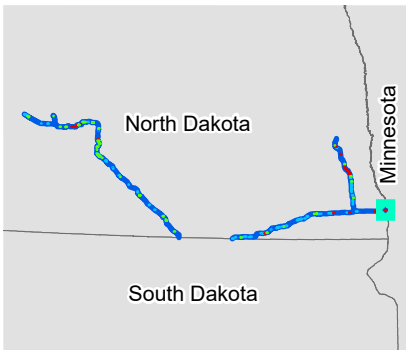

LEGEND

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FWS NLEB Habitat Type

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0 1,000 2,000
Feet

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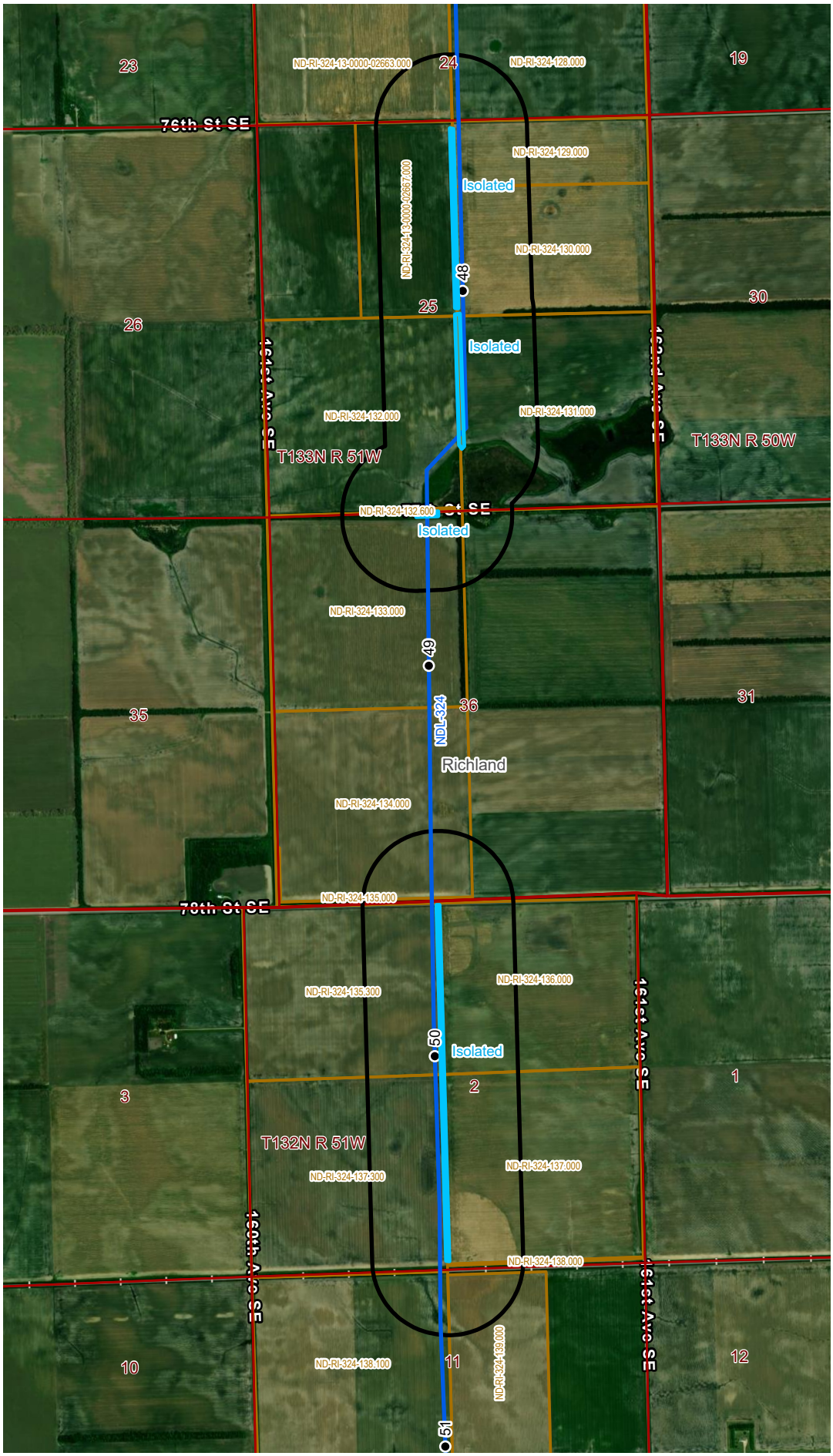
Sheet: E - 60 Sheet 60 of 71	**Drawing Number:** 1

MCE23_NDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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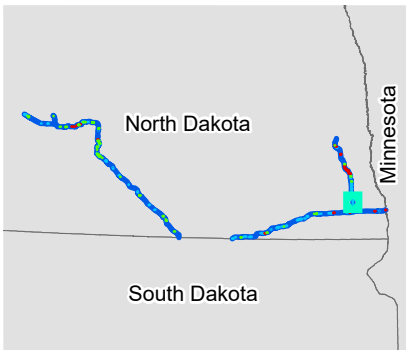

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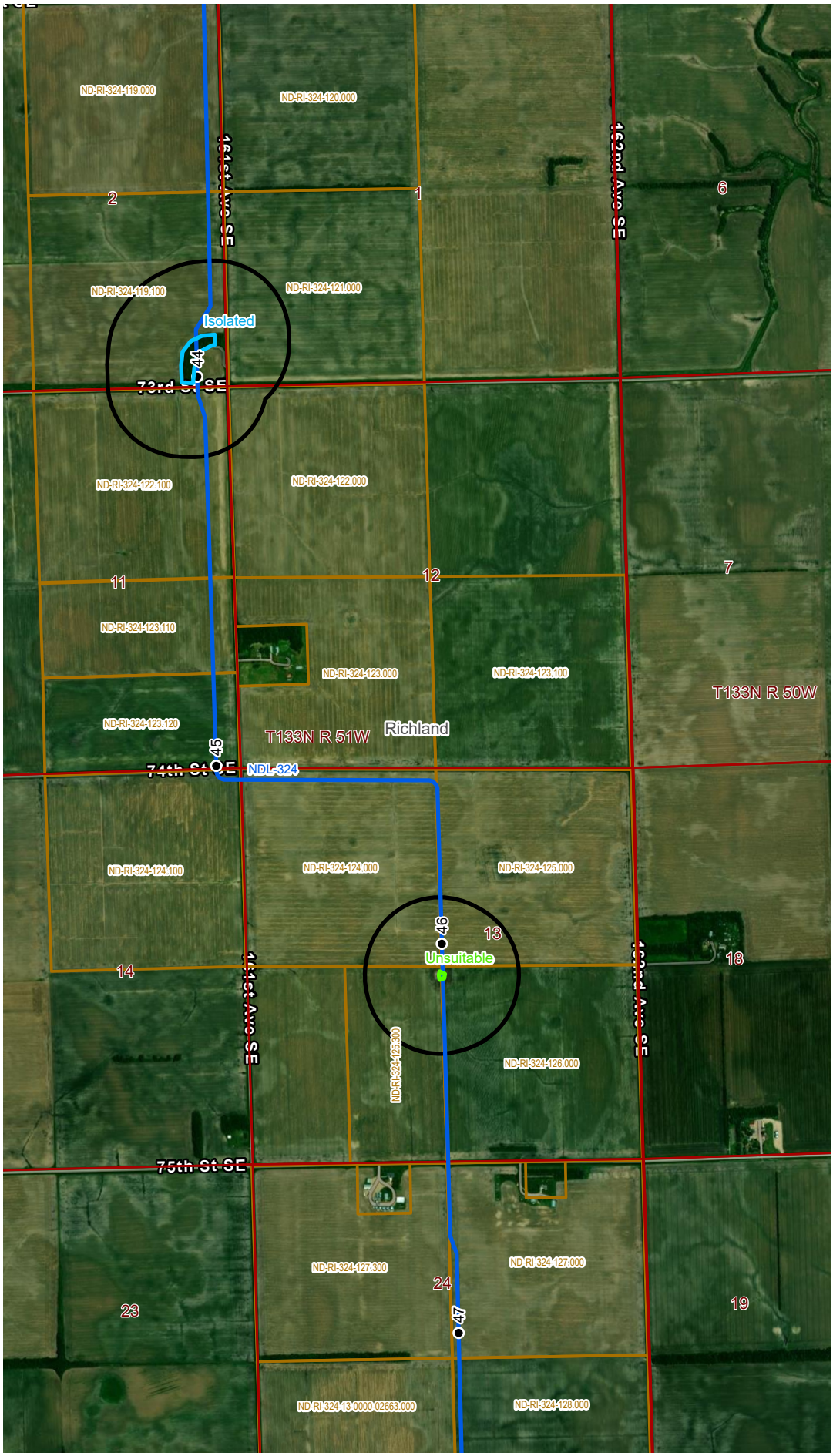
Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N
Sheet: E - 61 Sheet 61 of 71	**Drawing Number:** 1

MXD23_NDakHPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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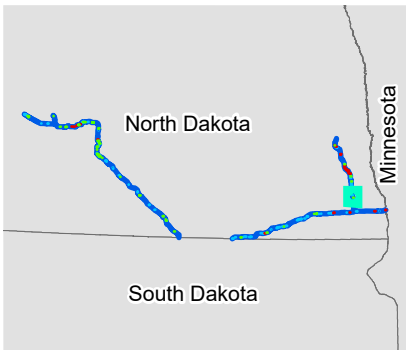

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0 1,000 2,000
Feet

N

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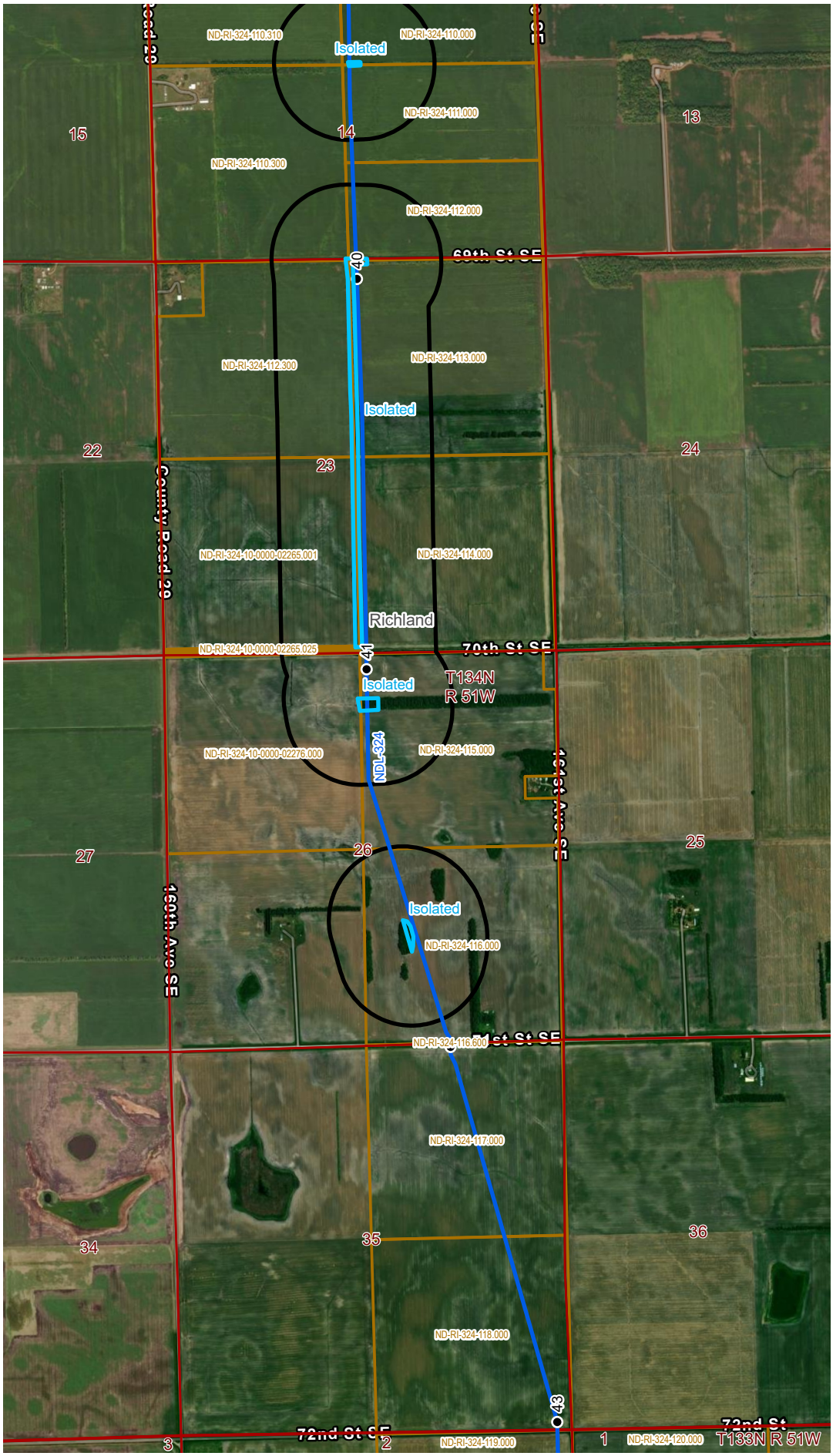
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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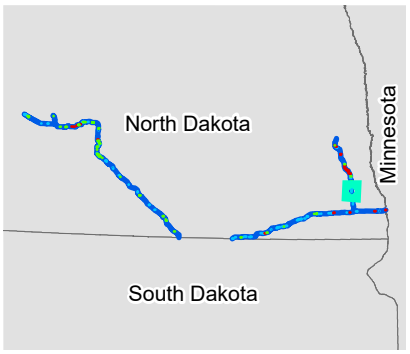

LEGEND

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Scale:	Projection:
1:24,000	NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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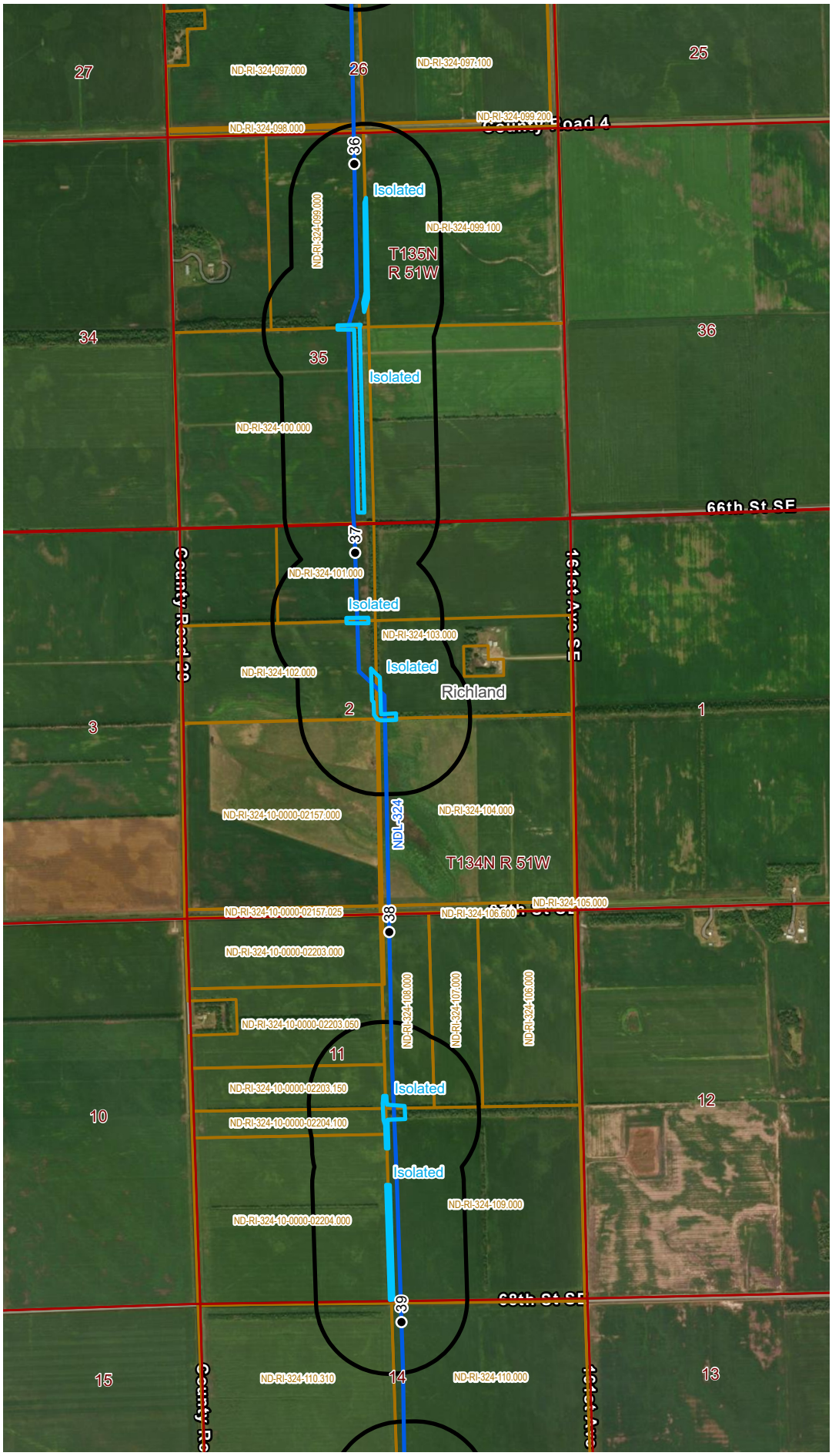
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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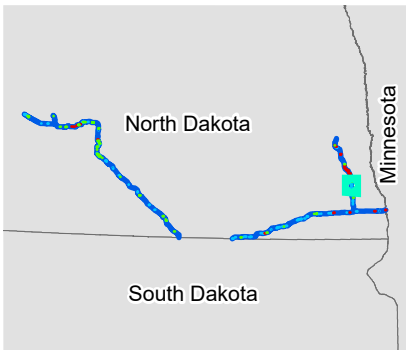

LEGEND

Legend

FWS NLEB Habitat Type

- Suitable
- Isolated
- Unsuitable

- NLEB 1000ft Analysis Buffer
- NLEB Habitat Range (FWS 2023)

- Project Route
- Milepost
- Property Parcel
- PLSS Township Range
- PLSS Section

0 1,000 2,000
Feet

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MIDWEST CARBON EXPRESS PROJECT

Figure Title:
Northern Long-eared Bat Habitat Assessment Locations

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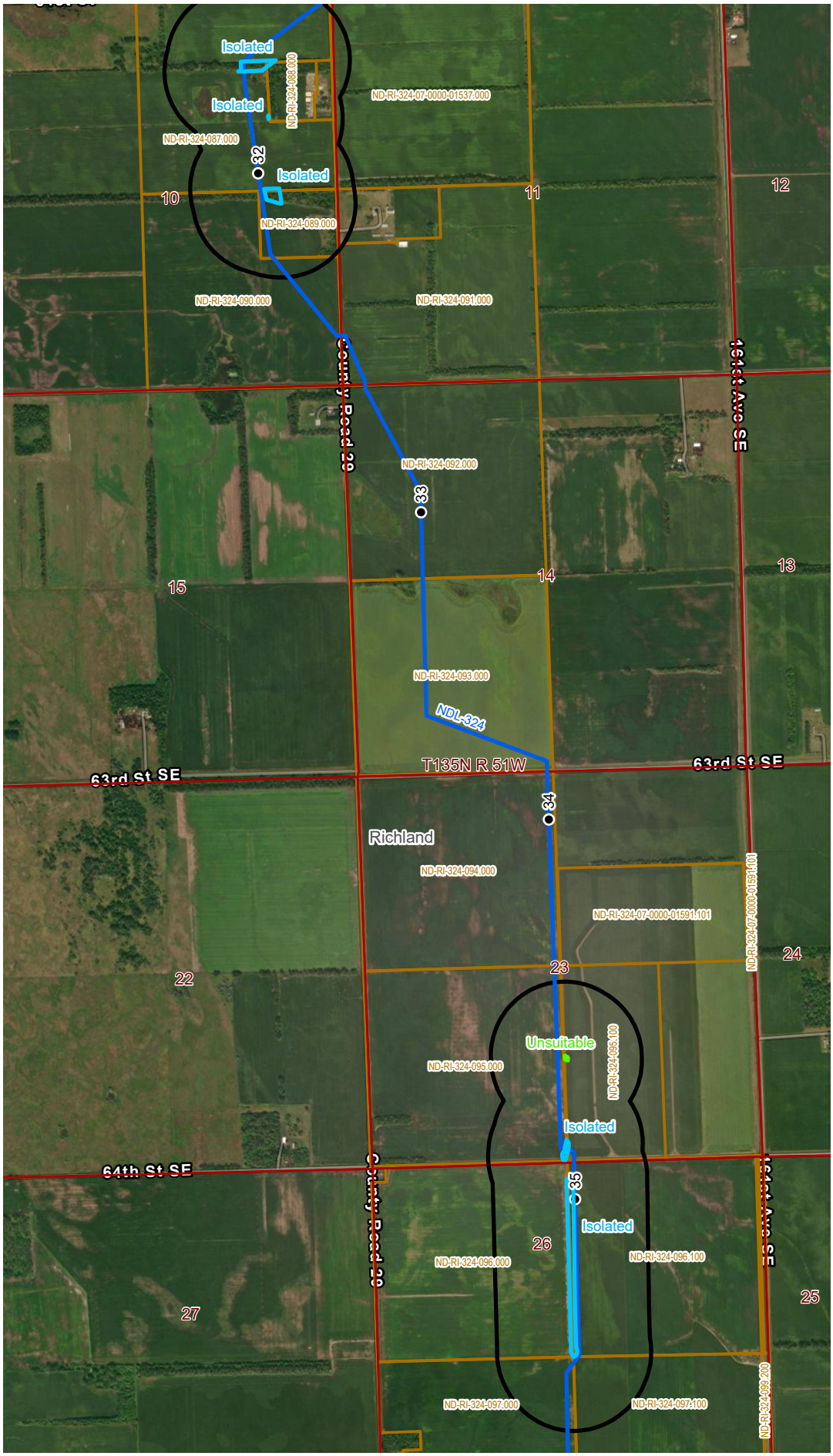
NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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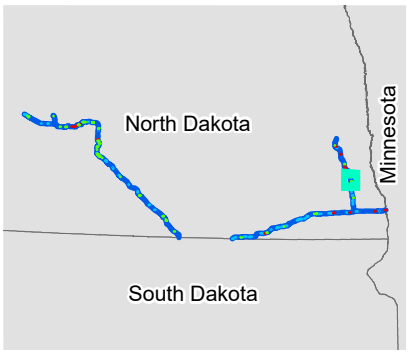

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0 1,000 2,000
Feet

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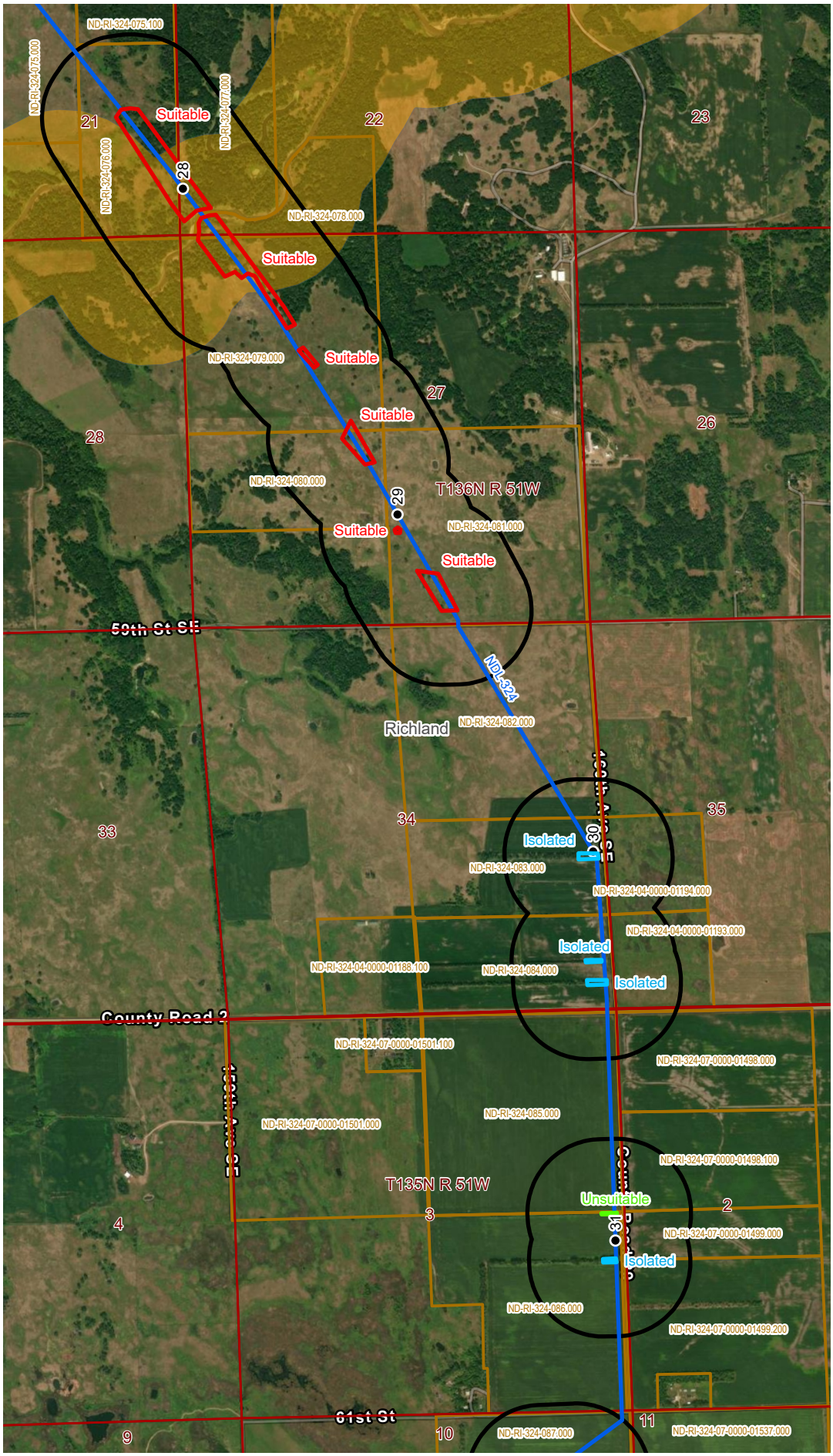
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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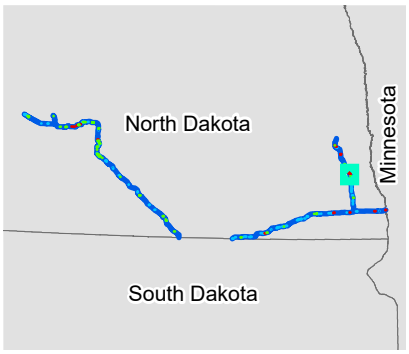

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0 1,000 2,000
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N

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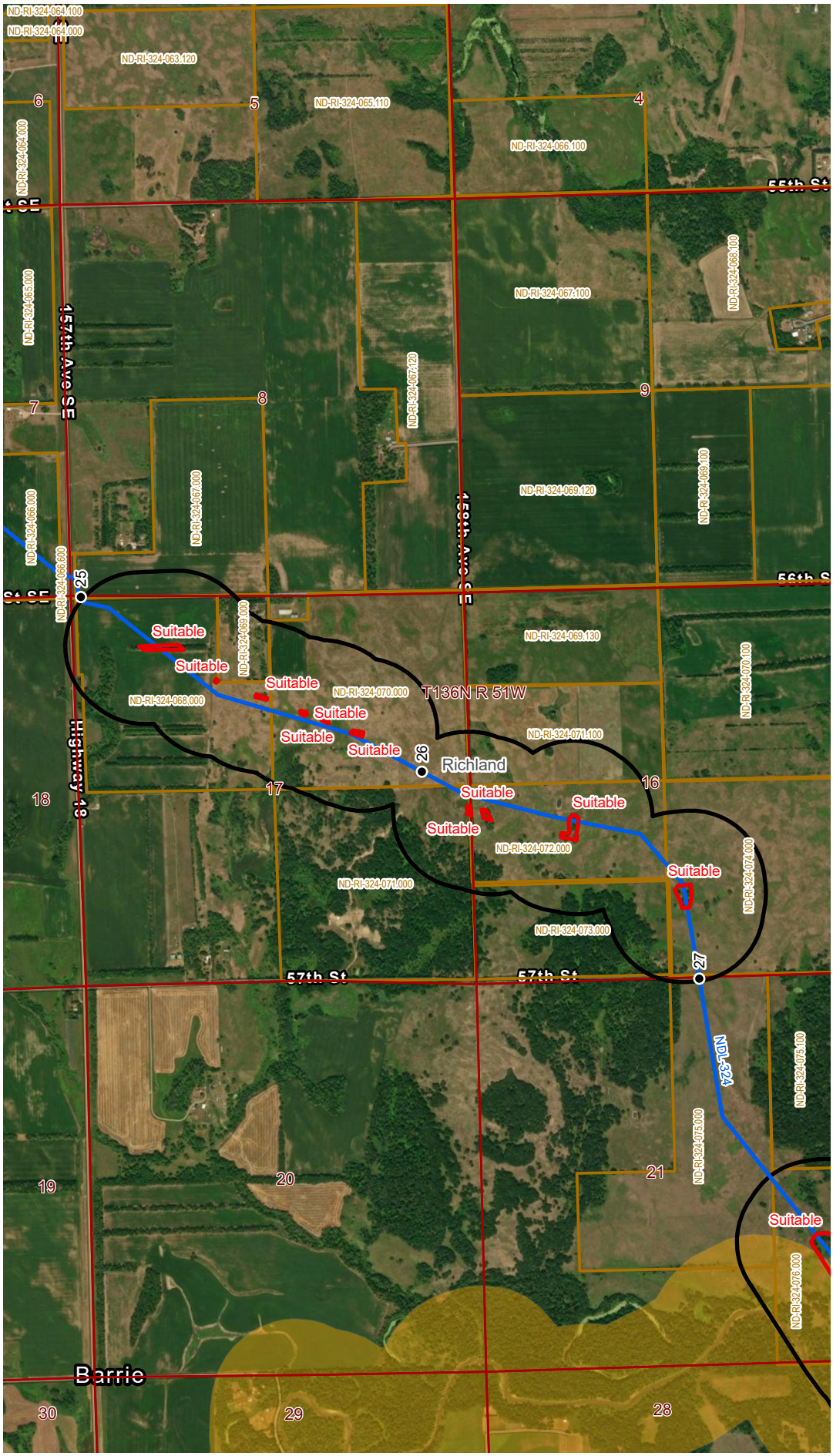

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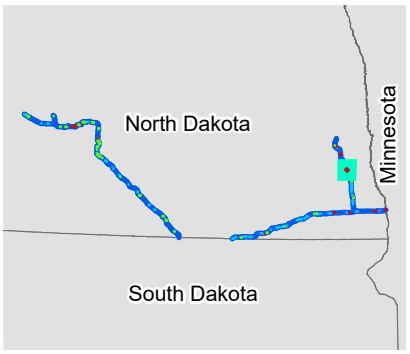

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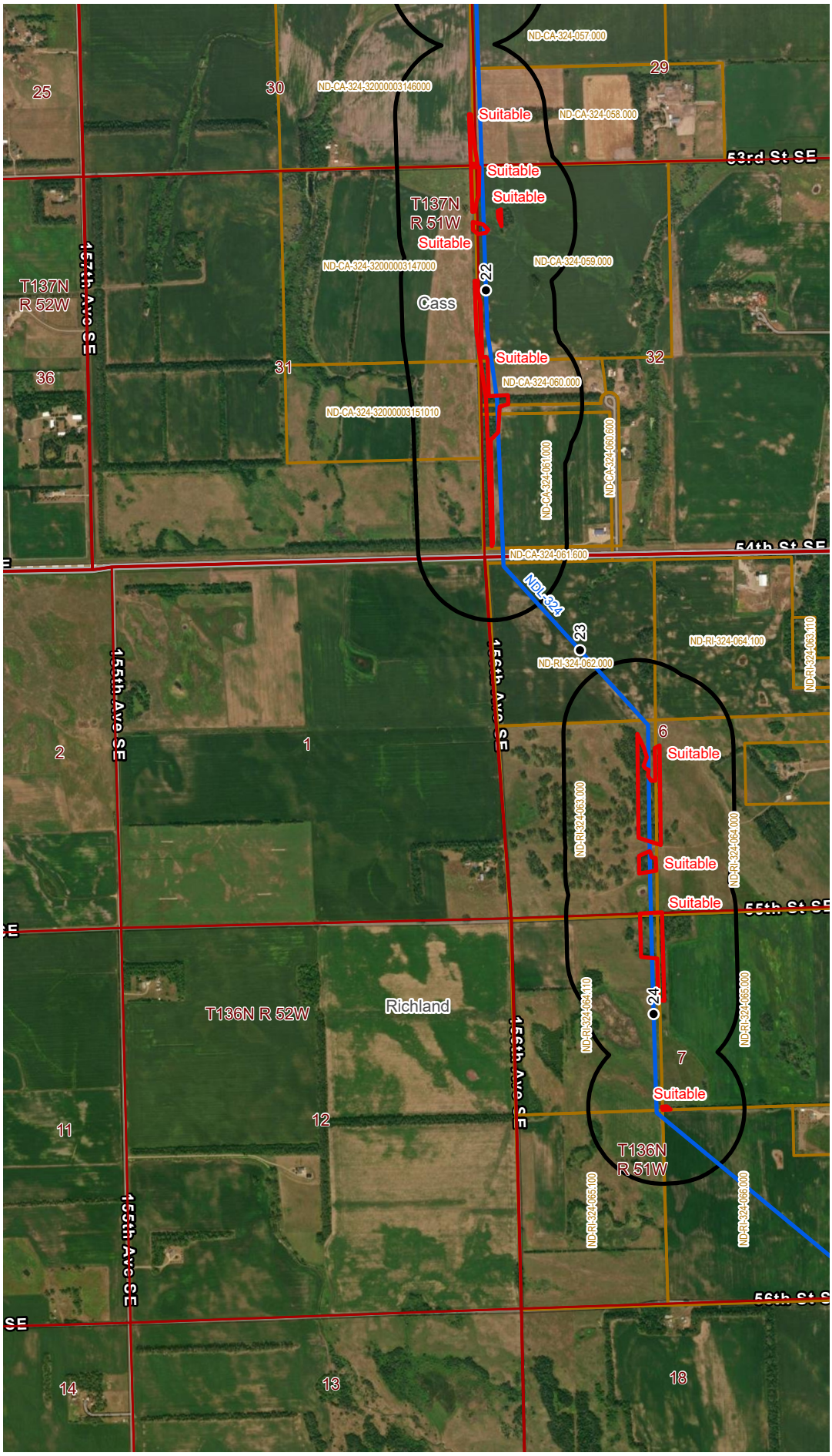
NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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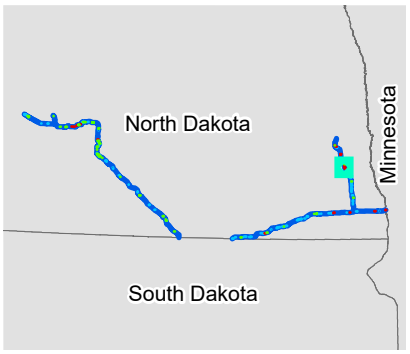

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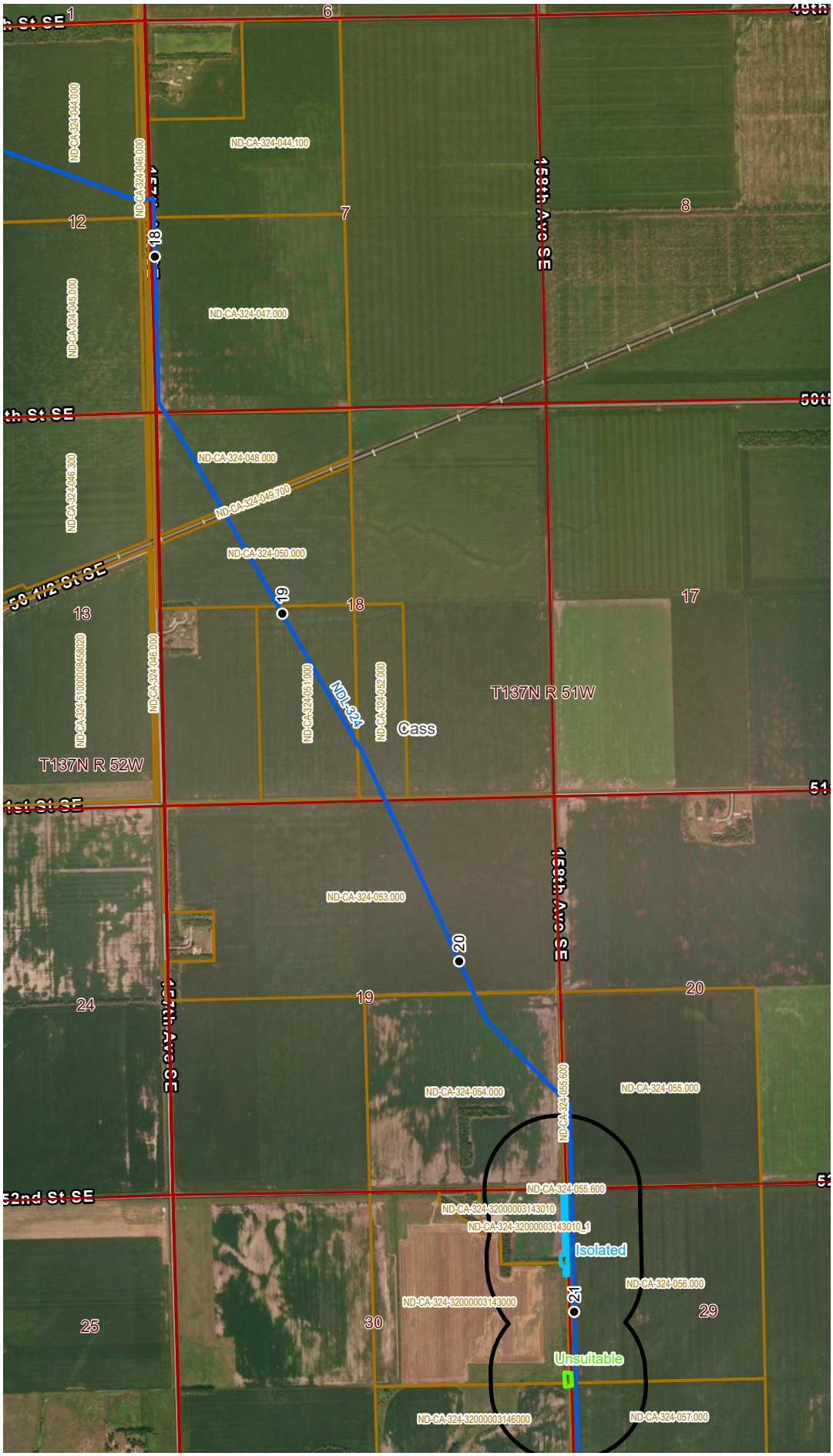

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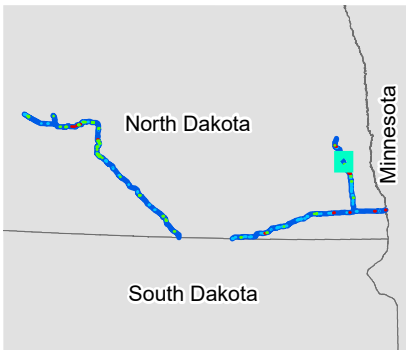

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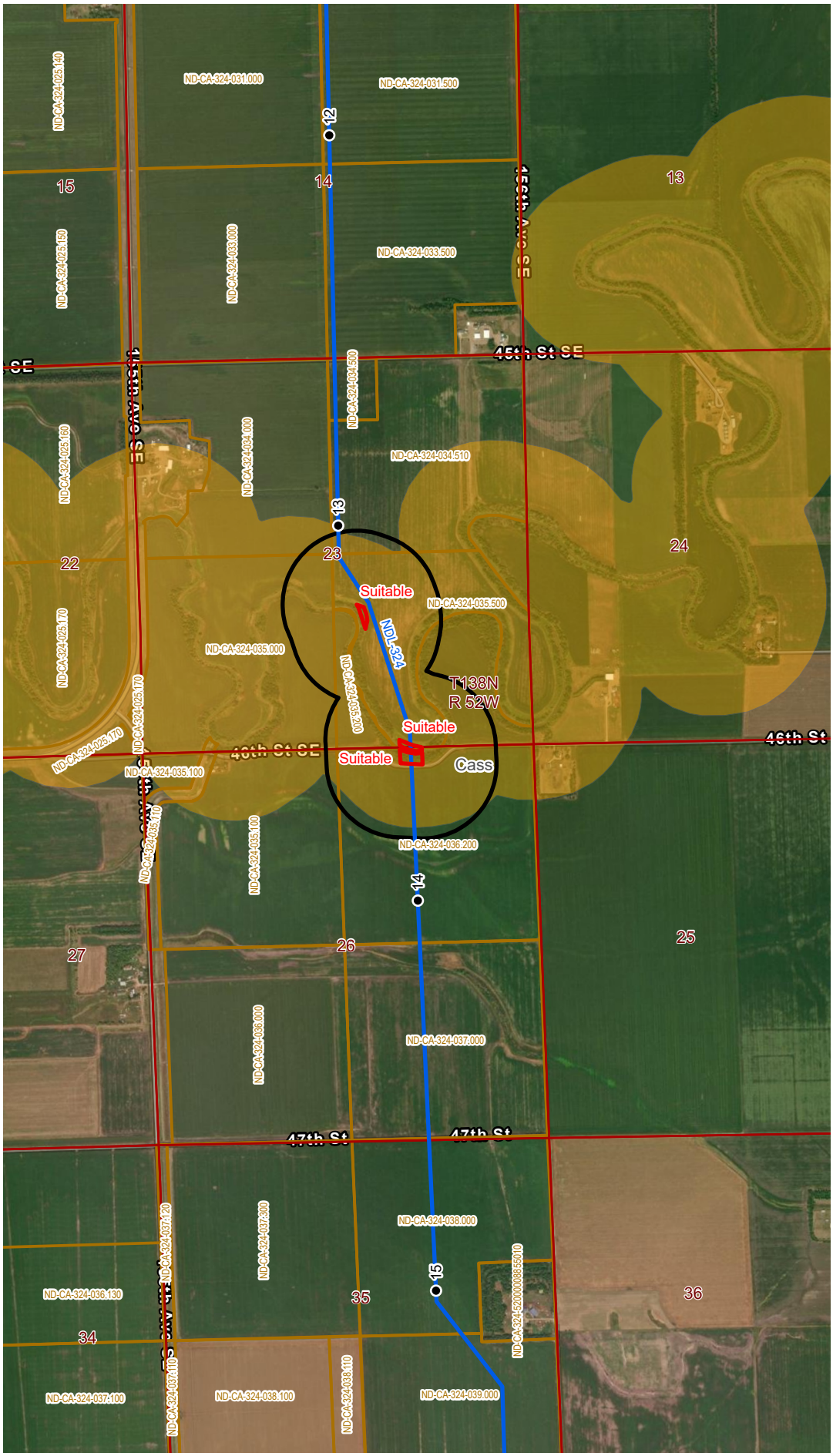
MCE23_NoDakPSC_NLEB_Assessment_Locations.aprx | 12/21/2023

NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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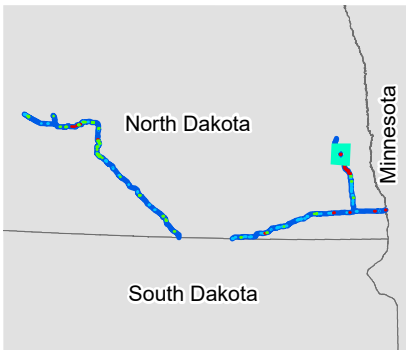

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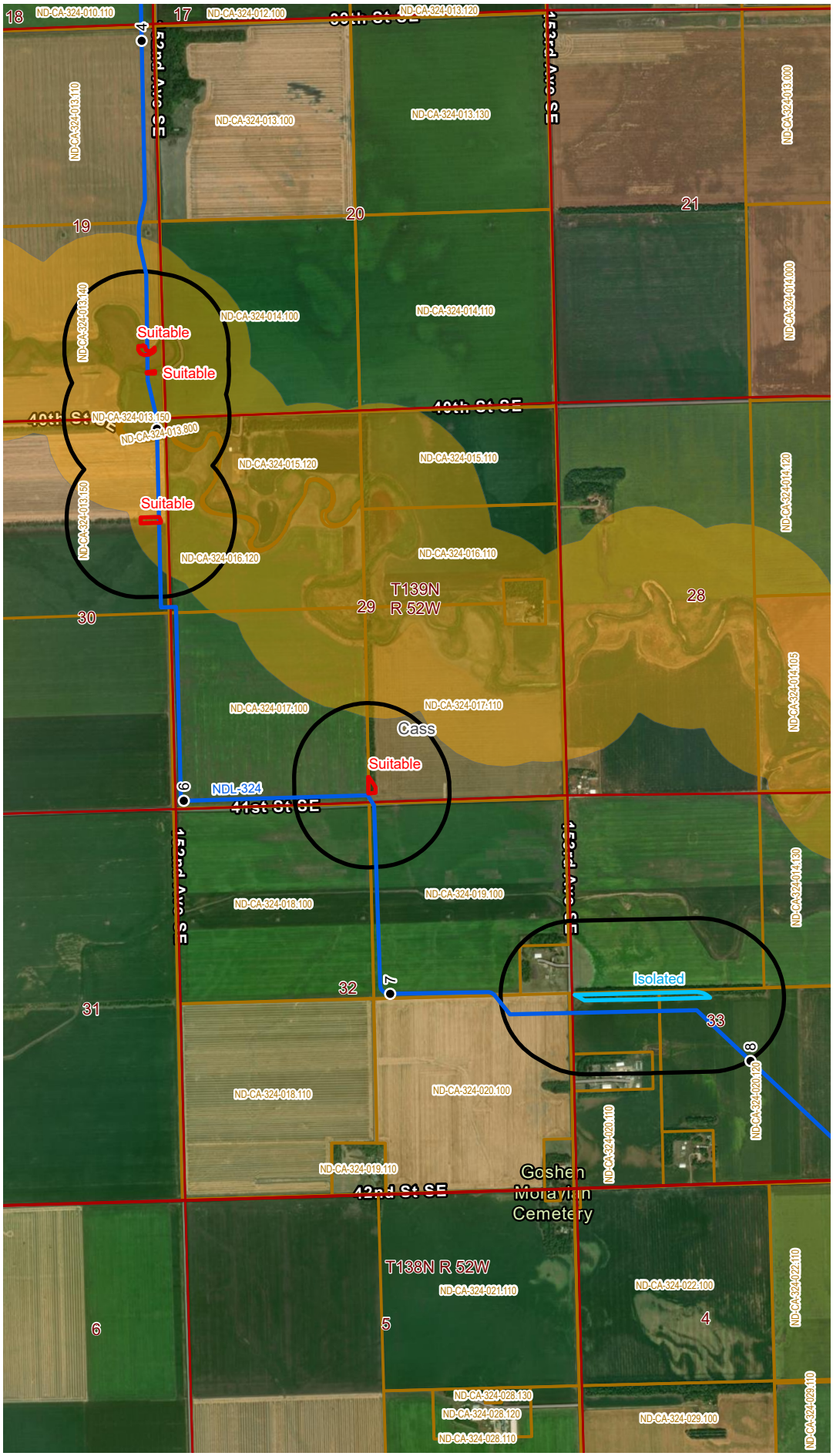
NORTHERN LONG-EARED BAT HABITAT ASSESSMENT LOCATIONS



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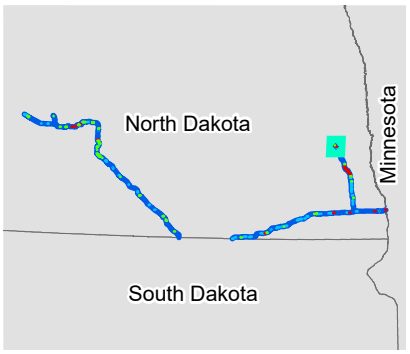

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0 1,000 2,000
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Wetland Delineation Report

Burleigh, Cass, Dickey, Emmons, Logan, McIntosh, Morton, Oliver, Richland, Sargent Counties, North Dakota

Summit Carbon Solutions Midwest Carbon Express Project

Document Number:
SCS-0700-ENV-02-RPT-012

Date:
January 26, 2024

REVISION HISTORY

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01/26/2024	1	Update Plan	Nancy Porter/Wayne Richardson	Jon Schmidt	Jason Zoller

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List of Acronyms and Abbreviations

CO_2	Carbon Dioxide
FAC	Facultative
HUC	Hydrologic Unit Code
MCE Project	Midwest Carbon Express Project
NHD	National Hydrography Dataset
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
OHWM	Ordinary High-Water Mark
PEM	Palustrine Emergent
Perennial	Perennial Environmental Services, LLC
PFO	Palustrine Forested
Project	SCS MCE Project – North Dakota
PSS	Palustrine Scrub-Shrub
SCS	Summit Carbon Solutions, LLC
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey

1 Introduction

Summit Carbon Solutions, LLC (SCS) retained EXP Environmental Services and other contractors to conduct environmental surveys for the Summit Carbon Solutions Midwest Carbon Express Project (MCE Project), including wetland delineations, in the State of North Dakota. The MCE Project will capture carbon dioxide (CO_2) from industrial facilities across five states (i.e., Iowa, Minnesota, Nebraska, South Dakota, and North Dakota). The captured CO_2 will be compressed, dehydrated, and cooled to form CO_2 in a dense phase for transportation via pipeline to North Dakota to be permanently sequestered within deep underground geologic formations. The planned pipeline is approximately 2,000 miles long, with diameters ranging from 4 to 24 inches. The portions of the pipeline in North Dakota total approximately 334 miles.

The entirety of the MCE Project facilities within North Dakota are located within the jurisdictional boundary of the U.S. Army Corps of Engineers (USACE) – Omaha District. The information included herein pertains only to the portions of the MCE Project facilities located within the State of North Dakota that fall under the jurisdiction of the North Dakota Public Service Commission (Project).

The wetland delineation performed by SCS included the identification and recording of physical features that may be considered "waters of the United States," as defined by the USACE. "Waters of the United States" includes most wetlands, rivers, creeks, streams, lakes, tributaries, etc. This report summarizes the results of the wetland delineations within the Project Siting Corridor and will be utilized to determine impacts to potentially jurisdictional "waters of the United States." The Project Siting Corridor is a corridor 200 feet wide encompassing 8,253.42 acres within the Omaha District in North Dakota. Maps of the Project Siting Corridor are provided in **Appendix A**.

2 Methodology

2.1 Preliminary Data Gathering

Prior to visiting the Project Siting Corridor, a resource review was conducted on available background site information including current and historic aerial photography, U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) data, U.S. Geological Survey (USGS) National Hydrography Dataset (NHD), U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, and USGS 7.5-minute topographic quadrangle maps.

2.2 Identification of Potential Waters of the United States

Wetland delineations were conducted in accordance with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region* (Version 2.0) (USACE, 2010) and the routine determination guidelines provided in the USACE *Wetland Delineation Manual* (Technical Report Y-87-1) (USACE, 1987). According to the *Wetland Delineation Manual*, an area is a wetland if positive indicators for the three mandatory wetland criteria are identified in a given area, with special exceptions. These criteria include the presence of hydrophytic vegetation, wetland hydrology, and hydric soils. Identification of dominant vegetative species and the associated wetland indicator status (as designated by the USACE *National Wetland Plant List*), dictates the presence of hydrophytic vegetation. A small pit is dug to evaluate soils within each wetland and surrounding upland area to determine if hydric soils are present. Location, inundation, saturation, and other physical indicators suggesting the presence of water are used to determine wetland hydrology at a site.

Waterbodies (e.g., creeks, streams, etc.) are typically identified by the presence of an ordinary high-water mark (OHWM). The OHWMs are established by physical characteristics such as "a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas (USACE, 1987)." Manmade ponds, lakes, and other bodies of open water that may not have an OHWM were also included in this

category. If present, on-site streams, open waters, and wetlands were characterized and the boundaries were delineated by wetland biologists.

2.3 Naming Scheme

The wetland biologists utilized a unique naming scheme to identify wetlands and waterbody features. The naming scheme consisted of a feature type abbreviation (W for wetland, U for uplands, and S for waterbodies), company/team ID (2001, 2002, 2003, etc.), county code (e.g., MC for McIntosh County), and feature ID number. For example, a wetland location would be labeled W2001MP001, an upland would be U2001MP001, and a waterbody would be S2001MP001. For multitype wetlands, a suffix with the vegetation cover type was added to the wetland name, such as palustrine forested (PFO), palustrine scrub-shrub (PSS), or palustrine emergent (PEM) (e.g., W2001MP001_PEM).

A separate naming scheme was utilized for wetland and waterbody features which were identified via desktop analysis. Wetland features were labeled using a nomenclature that includes a feature type (W for wetlands, U for uplands, S for waterbodies), number code for company identification (2), county code (e.g., MC for McIntosh County), feature number/ID, and "_DT" to denote that the feature was generated at a workstation and not surveyed in the field. For example, a desktop wetland location would be labeled W_2_MC_01_DT.

2.4 Data Points/Soil Stations

Site conditions were documented through the use of data point locations, known as soil stations. Data sheets were completed for each soil station (**Appendix B**) documenting the hydrology, vegetation, and soils at each location. Soil stations were recorded where changes in vegetation communities were observed to document the differences between wetland and upland areas (i.e., a soil station would be recorded in each wetland as well as the adjacent upland). The locations of soil stations within the Project Siting Corridor are depicted on the NWI maps in **Appendix A**. A unique naming scheme that includes the survey team number (2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009) was utilized to identify soil stations within the Project Siting Corridor. Soil stations were named by using either the feature name (see above) followed by an upland or wetland distinction or by a unique consecutive number preceded by an upland distinction. For example, an upland soil station would be W2001MC001_UP (if associated with a wetland feature) or U2001MC001. Photographs documenting the vegetative communities located at each soil station and each waterbody are included in **Appendix C**, and will be made available upon request. The photographs are labeled by feature or data point name followed by an alphabetic qualifier for the order in which the photograph was taken, for example W2001MC001_A.

All data points were collected using Environmental Systems Research Institute's FieldMaps software on an iPhone XR equipped with a Trimble R1 GPS wireless Bluetooth receiver to geographically reference features, such as data points and wetland boundaries, identified during the field survey. These units have real-time and post-processed sub-meter accuracy. Geographic Information System software was used to analyze collected features, calculate the extent of the delineated areas, and generate the attached mapping.

2.5 Aerial Interpretation/Delineation

To date, wetland delineation field surveys have been completed for approximately 93 percent of the Project Siting Corridor. Field surveys for the remainder of the Siting Corridor are anticipated to be completed in 2024 dependent upon landowner negotiations and engineering design.

For areas not field surveyed within the Siting Corridor, a desktop review was performed utilizing the following data sources:

- USGS 7.5 topographic quadrangle maps (USGS, 1982);
- LiDAR data,
- NWI data;
- USDA NRCS soils maps (USDA, 2020); and

- Google Earth historical aerial photography.

The USGS topographic maps and NWI maps were used to identify any potential waterbodies and/or wetlands that have been mapped by either of these sources. The NRCS soils maps were used to identify any hydric soils located within the survey corridor. Aerial photography was used to compare photographic signatures with areas that were pedestrian surveyed and to look for photographic signatures in areas not yet surveyed that are consistent with wetlands in the region.

A summary of the wetland and waterbody acreages determined by field survey and by desktop analysis of the Siting Corridor is presented in **Table 1,** and the feature locations are identified within mapping exhibits provided in **Appendix A**.

Table 1. Acreages – North Dakota

County	Total Wetland and Waterbody Acreage[2]	Acreage of Wetlands and Waterbodies Identified by Desktop Analysis	Acreage of Wetlands and Waterbodies Identified by Field Survey	Percentage of Wetland and Waterbody Acreage Identified by Desktop Analysis
Burleigh	29.33	3.05	26.28	10.4%
Cass	5.67	1.05	4.62	18.5%
Dickey	108.98	13.21	95.77	12.1%
Emmons	15.00	2.16	12.84	14.4%
Logan[1]	--	--	--	--
McIntosh	10.20	1.12	9.08	11.0%
Morton	14.96	0.38	14.58	2.5%
Oliver	9.96	0.10	9.86	1.0%
Richland	51.85	3.96	47.89	7.6%
Sargent	96.84	2.92	93.92	3.0%
Totals	**342.79**	**27.95**	**314.84**	**8.2%**

Acreages presented are accurate as of January 26, 2024, but may change when field surveys are complete.

[1]No wetlands or waterbodies were identified in Logan County.

[2] Acreages include wetlands and waterbodies defined within the 200-foot Siting Corridor but do not reflect Project impacts to any wetlands or waterbodies.

3 Conditions Documented at the Project Site

Wetland biologists conducted the wetland and waterbody delineation and desktop review of the 8,253.42-acre Siting Corridor within North Dakota from August through November 2021, March through July 2022, and May through September 2023. Of the 8,253.42 acres, 7,910.63 acres are uplands, 316.56 acres are PEM wetlands, 1.91 acres are PSS wetlands, 2.62 acres are PFO wetlands, and 21.70 acres are waterbodies. Land use in the Siting Corridor primarily consists of tame or planted grasslands, prairie habitat, active agricultural land, hay fields, fallow agricultural land, wetlands, and forest. A summary of the vegetation, soils, and hydrology observed in the Siting Corridor during field surveys is presented below.

3.1 Vegetation

Data sheets documenting the vegetative species observed during the surveys are provided in **Appendix B**. The dominant vegetation species observed in each vegetative community present within the Siting Corridor are presented below.

3.1.1 Uplands

Descriptions and dominant vegetation for each land use type can be found below:

Tame or planted grasslands consist of tame pastures of cultivated fields planted with introduced (non-native) grass and legume species or cultivars with the multiple purposes of providing livestock grazing and foraging. Dominant vegetation consists of Kentucky bluegrass (*Poa pratensis*), white sagebrush (*Artemisia ludoviciana*), Woods' rose (*Rosa woodsii*), blue grama (*Bouteloua gracilis*), smooth brome (*Bromus inermis*), desert lily (*Hesperocallis undulata*), needleleaf sedge (*Carex duriuscula*), common wheat (*Triticum x aestivum*), yellow foxtail (*Setaria pumila*), western snowberry (*Symphoricarpos occidentalis*), carpet vervain (*Verbena bracteata*), quackgrass (*Elymus repens*), curlytop gumweed (*Grindelia squarrosa*), marsh bristlegrass (*Setaria parviflora*), alfalfa (*Medicago sativa*), prairie rose (*Rosa arkansana*), and fourwing saltbush (*Atriplex canescens*).

Prairie habitat consists of open land with a diverse mix of grass species. These include tall grass, mixed grass, and short grass prairie types. Dominant vegetation consists of blue grama, prairie dropseed (*Sporobolus heterolepis*), coralberry (*Symphoricarpos orbiculatus*), Kentucky bluegrass, western snowberry, perennial ragweed (*Ambrosia psilostachya*), smooth brome, Siberian elm (*Ulmus pumila*), white sagebrush, little bluestem (*Schizachyrium scoparium*), western wheatgrass (*Pascopyrum smithii*), lambsquarters (*Chenopodium album*), crested wheatgrass (*Agropyron cristatum*), prairie sagewort (*Artemisia frigida*), porcupine grass (*Stipa spartea*), tarragon (*Artemisia dracunculus*), dwarf false indigo (*Amorpha nana*), prairie sandreed (*Calamovilfa longifolia*), upright prairie coneflower (*Ratibida columnifera*), curlytop gumweed, stiff goldenrod (*Solidago rigida*), quaking aspen (*Populus tremuloides*), needle and thread (*Stipa comata*), common milkweed (*Asclepias syriaca*), common dandelion (*Taraxacum officinale*), Mexican fireweed (*Bassia scoparia*), Canadian thistle (*Cirsium arvense*), creeping wildrye, mountain rush (*Juncus balticus*), field sowthistle (*Sonchus arvensis*), and wavyleaf thistle (*Cirsium undulatum*).

Active agricultural land is comprised of areas that exhibit planted crops or actively (recently) disked fields. Dominant vegetation consists of common wheat, alfalfa, corn (*Zea mays*), soybean (*Glycine max*), yellow foxtail, and rape (*Brassica napus*).

Hay fields are similar to other grasslands; however, hay fields showed evidence of improvement and bailing. Dominant vegetation consists of Canadian thistle, Kentucky bluegrass, smooth brome, western snowberry, quackgrass, alfalfa, prickly Russian-thistle (*Salsola tragus*), green bristlegrass (*Setaria viridis*), cereal rye (*Secale cereale*), annual bluegrass (*Poa annua*), big bluestem (*Andropogon gerardii*), and Indiangrass (*Sorghastrum nutans*).

Fallow agricultural land is comprised of areas where crop rows are present, but no cultivated vegetation was observed at the time of survey. This method is used to restore the land's fertility as part of a crop rotation or to avoid surplus production. These areas may be heavily vegetated, but without crops. Dominant vegetation consists of reed canarygrass (*Phalaris arundinacea*), Kentucky bluegrass, cereal rye, smooth brome, foxtail barley (*Hordeum jubatum*), green bristlegrass, alfalfa, prickly Russian-thistle, lambsquarters, and yellow foxtail.

Forests within the Project Siting Corridor are characterized as hardwood forests. Dominant vegetation consists of beggarslice (*Hackelia virginiana*), eastern woodland sedge (*Carex blanda*), burr oak (*Quercus macrocarpa*), green ash (*Fraxinus pennsylvanica*), American plum (*Prunus americana*), American basswood (*Tilia americana*), common snowberry (*Symphoricarpos albus*), American elm (*Ulmus americana*), purple meadow-rue (*Thalictrum dasycarpum*), reed canarygrass, boxelder (*Acer negundo*), European buckthorn (*Rhamnus cathartica*), buffelgrass (*Cenchrus ciliaris*), common milkweed, Siberian elm, smooth brome, stinging nettle (*Urtica dioica*), stiff goldenrod, Kentucky bluegrass, and western snowberry.

3.1.2 Wetlands

Dominant vegetation associated with wetlands is categorized by wetland type, including PEM, PSS, and PFO. The dominant vegetative species for each wetland type observed within the Project Siting Corridor are listed in **Appendix D, Table 1**.

3.2 Soils

According to the NRCS Web Soil Survey, 386 soil map units comprising 7,212.20 acres of non-hydric soils and 1,041.22 acres of hydric soils are located within the Siting Corridor. **Appendix D, Table 2** includes all soil map units, their hydric classifications, the acreage of each, and the percentage of each within the 8,253.42-acre Siting Corridor.

3.3 Hydrology

The Project Siting Corridor is located within 13 watersheds: Maple River watershed (Hydrologic Unit Code [HUC] 8: 09020205), Lower Sheyenne watershed (HUC 8: 09020204), Western Wild Rice watershed (HUC 8: 09020105), Bois De Sioux River watershed (HUC 8: 09020101), Upper James River watershed (HUC 8: 10160003), Elm River watershed (HUC 8: 10160004), Upper Lake Oahe watershed (HUC 8: 10130102), Beaver Creek watershed (HUC 8: 10130104), Apple Creek watershed (HUC 8: 10130103), Painted Woods-Square Butte Creek watershed (HUC 8: 10130101), Lower Heart watershed (HUC 8: 10130203), Knife watershed (HUC 8: 10130201), and West Missouri Coteau watershed (HUC 8 10130106). Watersheds intersected by the Siting Corridor and their HUC numbers are provided in **Appendix D, Table 3.**

The following 14 primary hydrology indicators were observed within delineated wetlands found in the Siting Corridor or in desktop assessments: saturation, aquatic fauna, drift deposits, algal mat or crust, iron deposits, inundation visible on aerial imagery, presence of reduced iron, high water table, surface water, water-stained leaves, hydrogen sulfide odor, oxidized rhizospheres on living roots, water marks, and thin muck surface. The following eight secondary hydrology indicators were observed within delineated wetlands found in the Siting Corridor or in desktop assessments: drainage patterns, sparsely vegetated concave surface, saturation visible on aerial imagery, geomorphic position, facultative (FAC)-neutral test, surface soil cracks, dry-season water table, and frost heave hummocks. Additionally, the following two primary hydrology indicators were observed within uplands found in the Siting Corridor or in desktop assessments: surface water and saturation; and five secondary hydrology indicators were observed within uplands found in the Siting Corridor: surface soil cracks, sparsely vegetated concave surface, saturation visible on aerial imagery, geomorphic position, and FAC-neutral test.

4 Waters of the United States Summary

4.1 Wetlands

Wetland biologists identified 647 locations within the Project Siting Corridor that exhibited positive indicators for the three required wetland criteria, as defined by the USACE, or exhibited these characteristics based on desktop review. Of the 647 wetland locations, 634 were classified as PEM, 6 were classified as PSS, and 7 were classified as PFO. The field delineated and desktop-identified wetlands encompass 321.09 acres within the Siting Corridor.

The Aerial/NRCS Soils Maps (**Appendix A**) depict the location of the delineated and desktop identified wetlands within the Project Siting Corridor. Photographic documentation of the representative conditions and vegetation at delineated wetlands is included as **Appendix C**. The feature ID, type, classification, acreage, and location of the wetlands within the Siting Corridor are presented in **Appendix D, Table 4**.

4.2 Waterbodies

Wetland biologists identified 85 streams and 26 open waters, as defined by the USACE, within the Siting Corridor. Of the 85 streams delineated, 37 were identified as ephemeral, 24 were identified as intermittent, and 24 were identified as perennial. The 85 streams comprise 17.13 acres within the Siting Corridor. Of the 26 open water

features delineated, 18 were identified as manmade ponds, and 8 were identified as natural ponds. The 26 open water features comprise 4.57 acres within the Siting Corridor. The type, classification, acreage, and location of all waterbodies identified within the Siting Corridor are presented in **Appendix D, Table 5**.

5 Conclusions

Wetland biologists conducted the wetland and waterbody delineation and desktop review of the 8,253.42-acre Siting Corridor from March through November 2021, March through July 2022, and May through September 2023. A total of 647 locations within the Siting Corridor exhibit positive indicators for the three required wetland criteria, as defined by the USACE, based on field surveys or desktop reviews. Of the 647 wetland locations, 634 were classified as PEM, 6 were classified as PSS, and 7 were classified as PFO. These delineated areas encompassed a total of 321.09 acres.

Wetland biologists identified 85 streams and 26 open waters, as defined by the USACE, within the Siting Corridor via field surveys and desktop reviews. Of the 85 streams identified, 37 were identified as ephemeral, 24 were identified as intermittent, and 24 were identified as perennial. Of the 26 open water features identified, 18 were identified as manmade ponds, and 8 were identified as natural ponds. The waterbodies comprise 21.70 acres within the Siting Corridor.

6 References

U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Great Plains Region. Version 2.0. U.S. Army Engineers Research and Development Center, Vicksburg, MS

U.S. Army Corps of Engineers Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineers Waterways Experiment Station, Vicksburg, MS.

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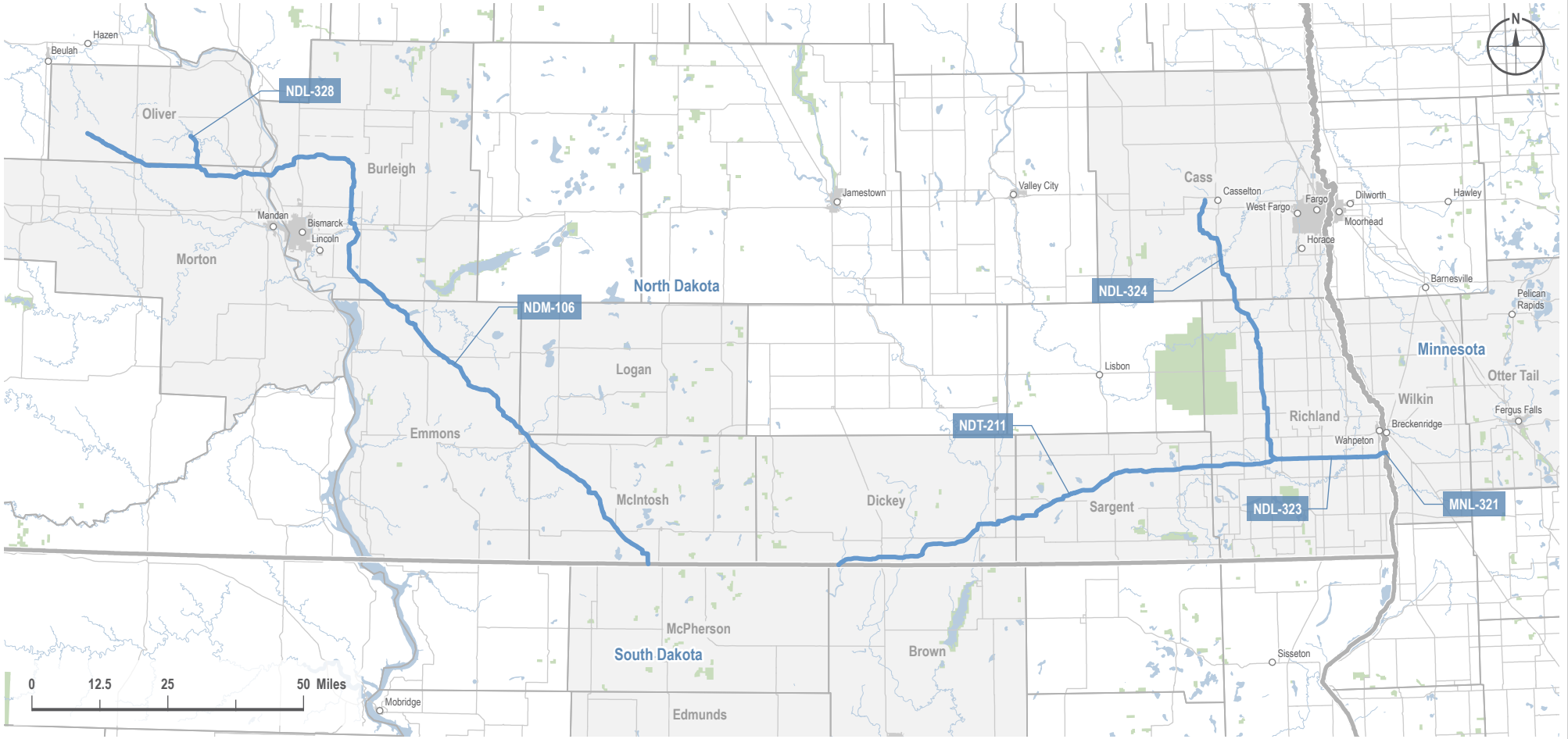
U.S. Geological Survey. 1993. 7.5-Minute Topographic Quadrangle Map

Appendix A –
Project Mapping

Vicinity Map - A1

PROJECT OVERVIEW MAP - NORTH DAKOTA



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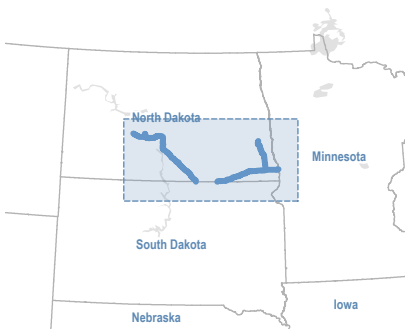

LEGEND

- Proposed Project Route
- County Boundary
- State Boundary
- City / Town
- Urban Area
- Highway
- River / Stream
- Waterbody
- Federal Land

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Figure Title:
Project Overview Map
North Dakota

Figure Number:
Figure 1

Scale:
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1 inch equals 27.62 miles

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

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Aerial Maps - A2

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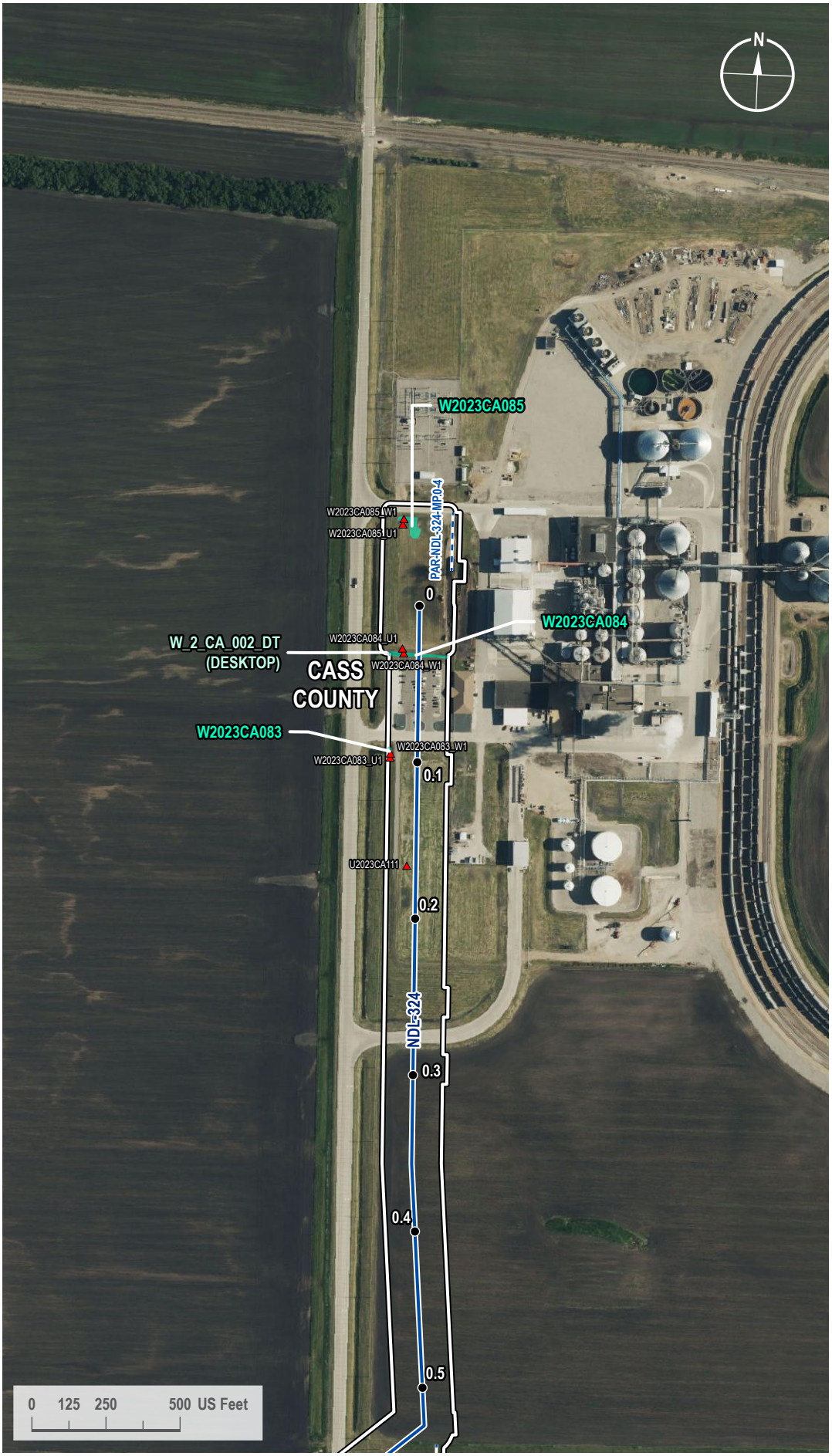

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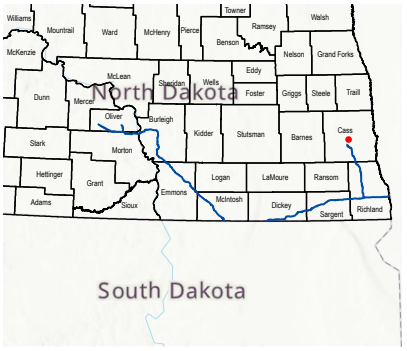

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title:
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Figure Number:
Appendix A-2

Scale:	Projection:
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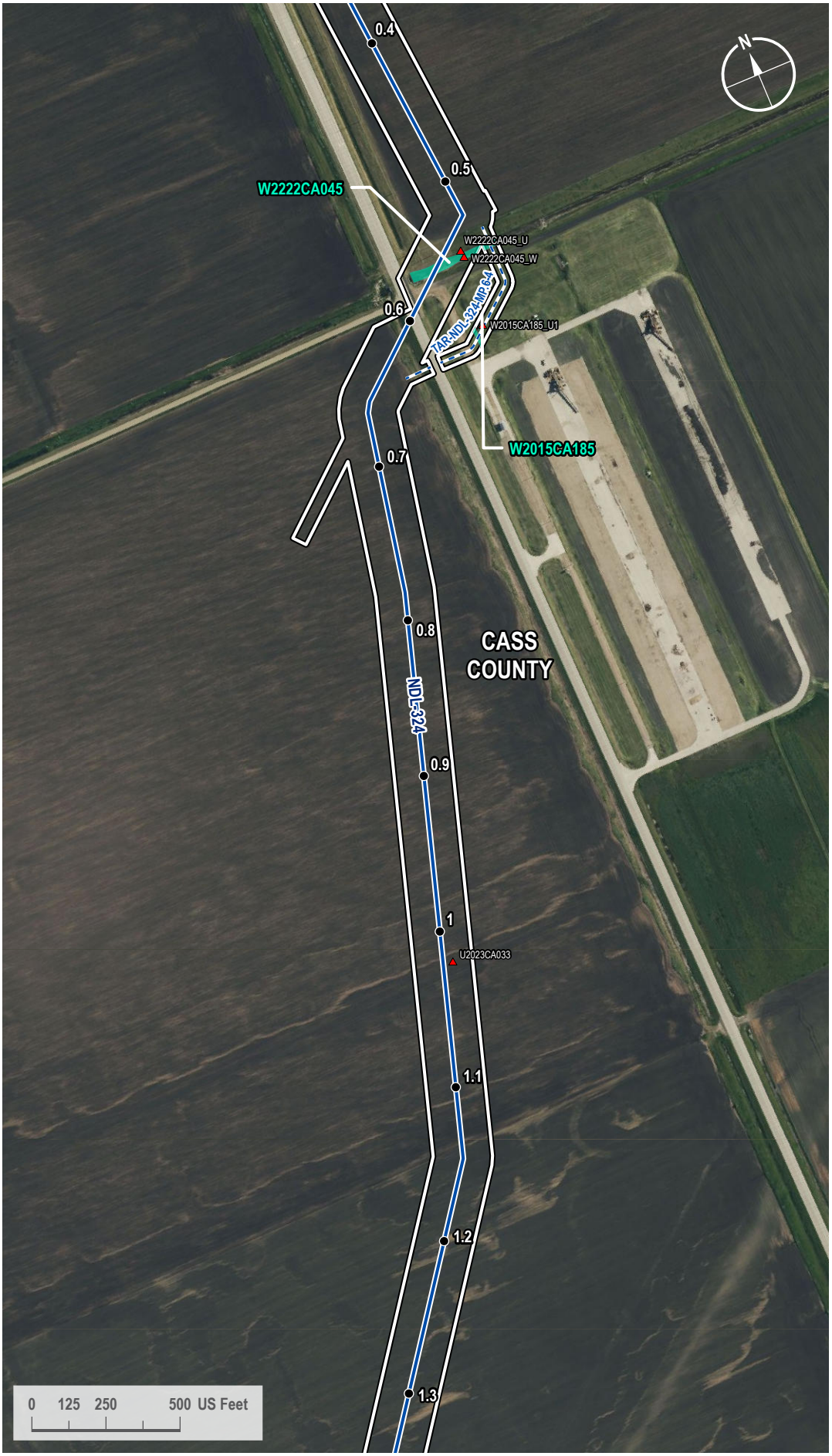

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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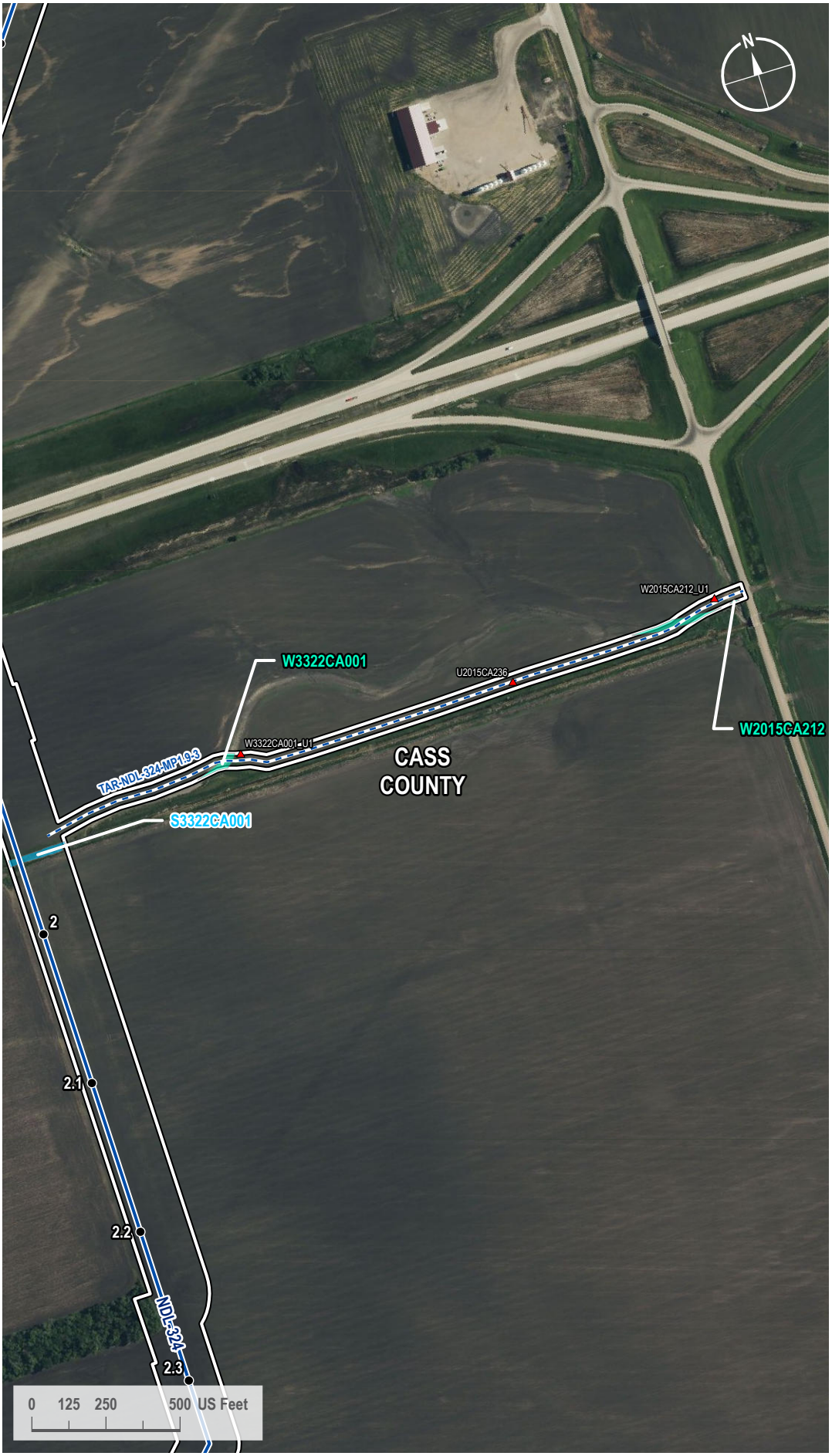

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
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- Stream (Surveyed)
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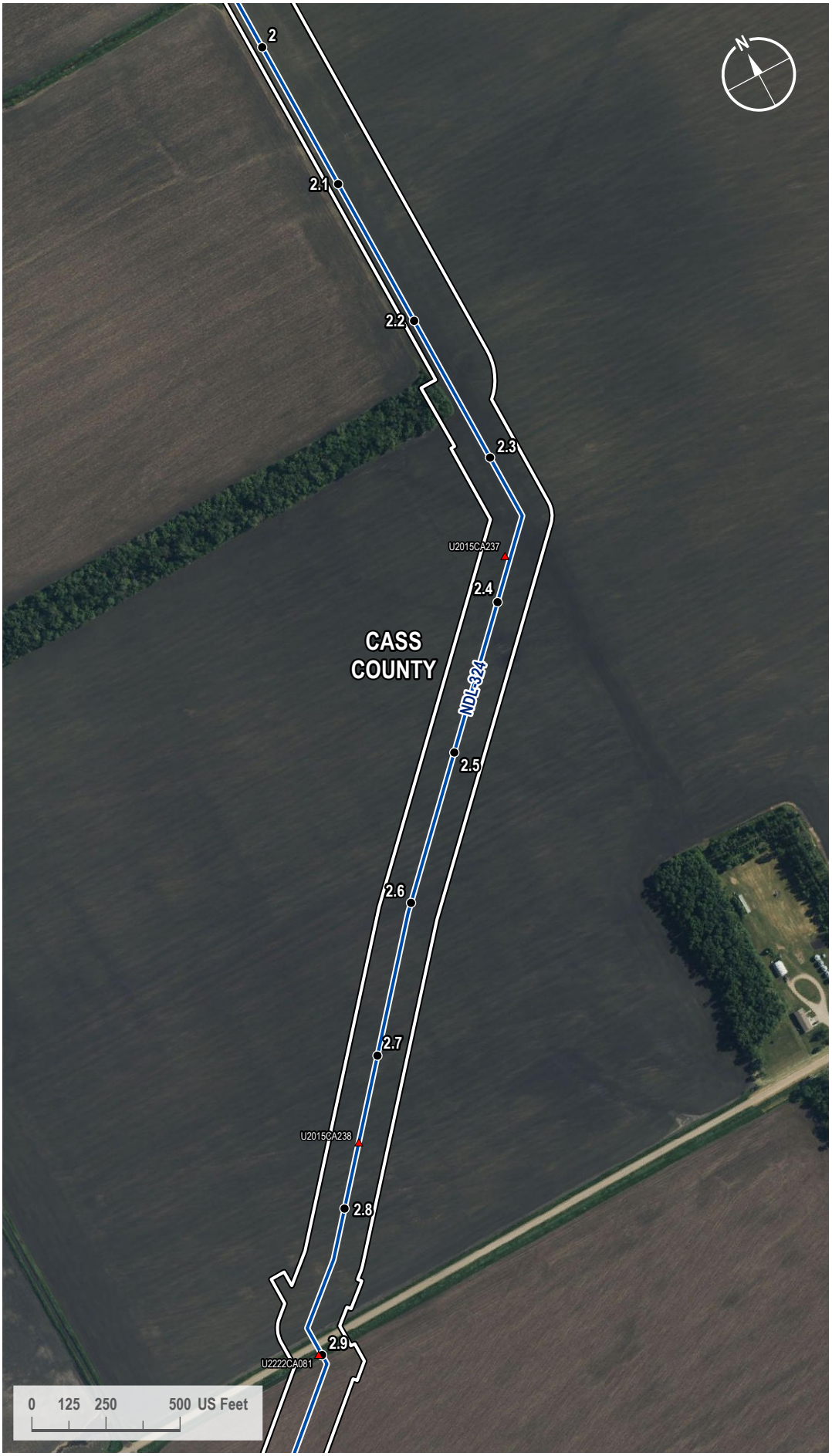

VICINITY MAP



LEGEND

- Milepost
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VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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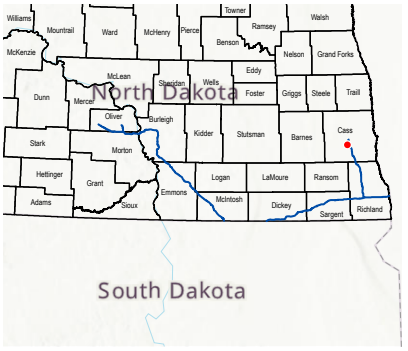

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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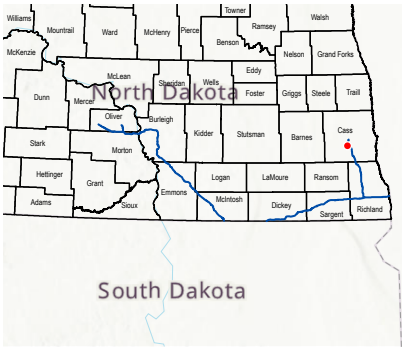

LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor

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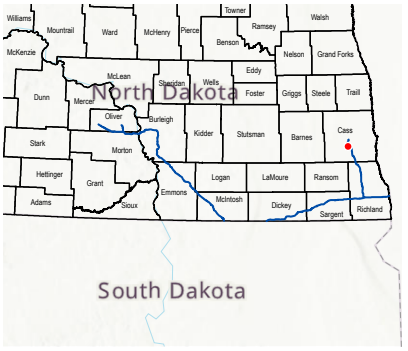

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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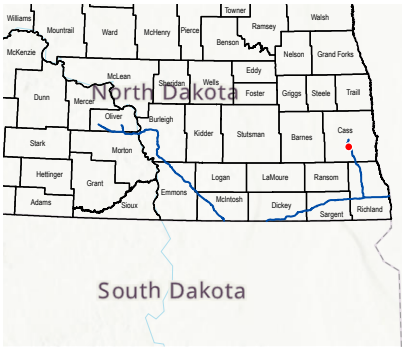

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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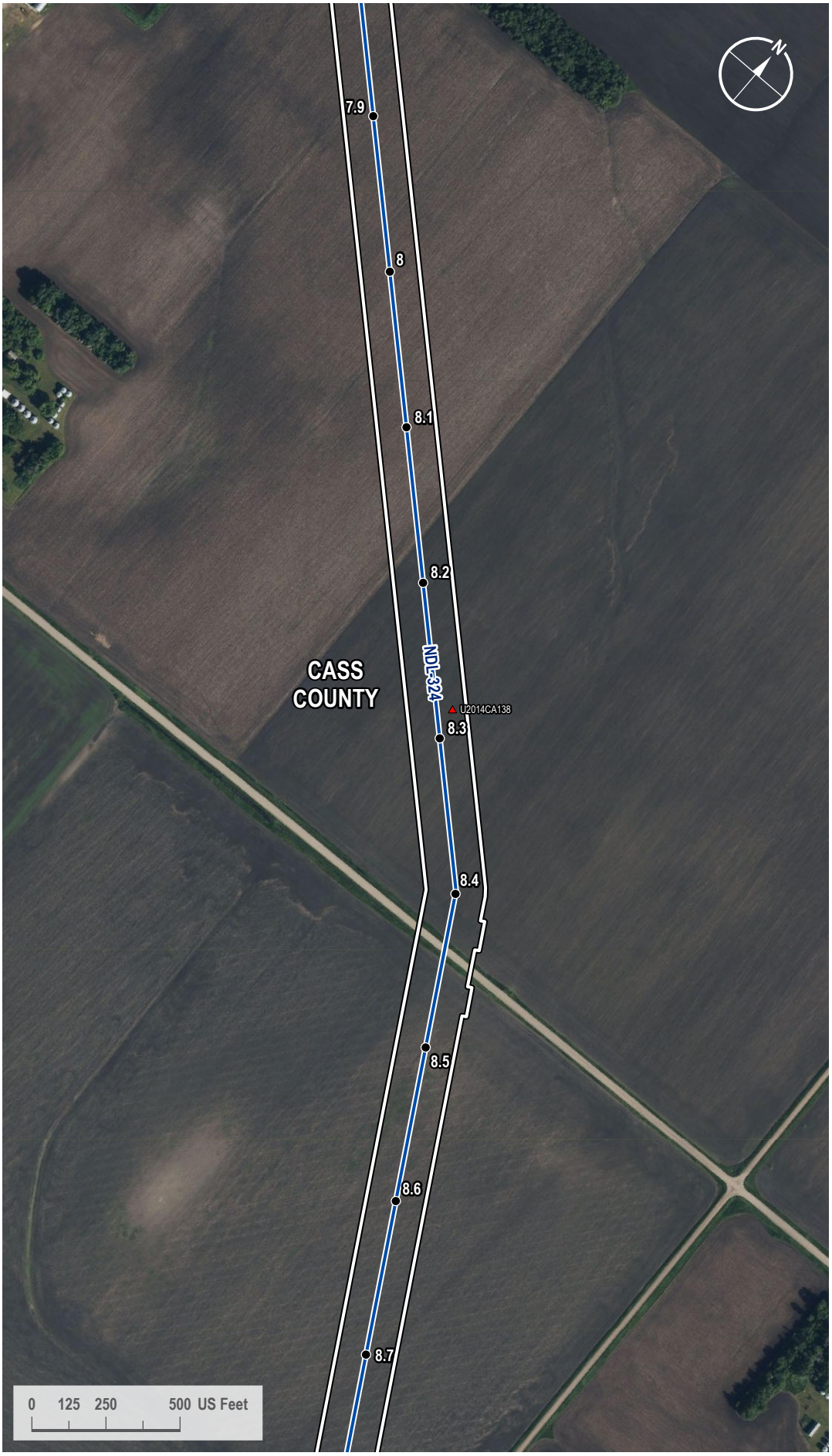

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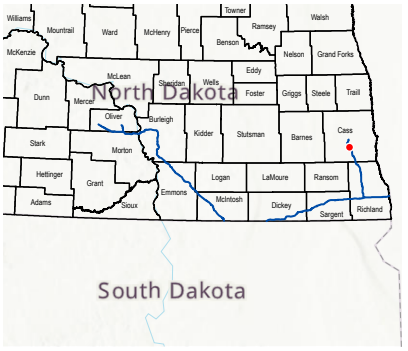

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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Figure Title:
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Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
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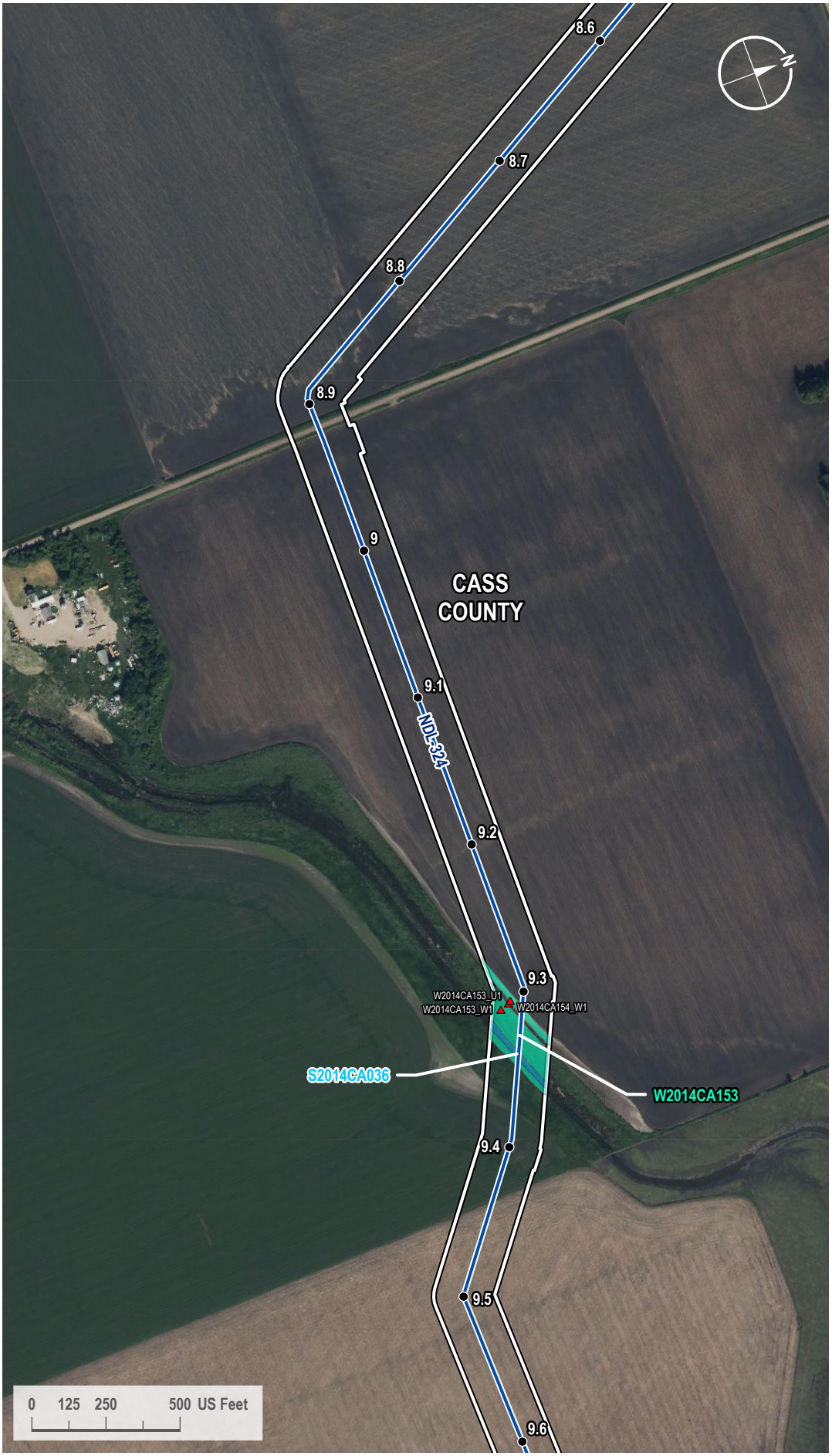

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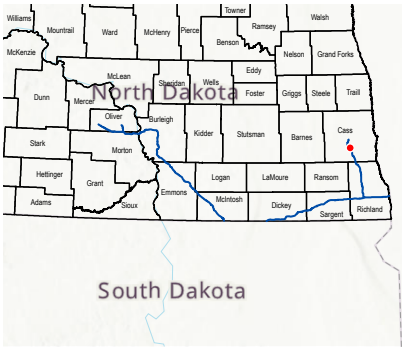

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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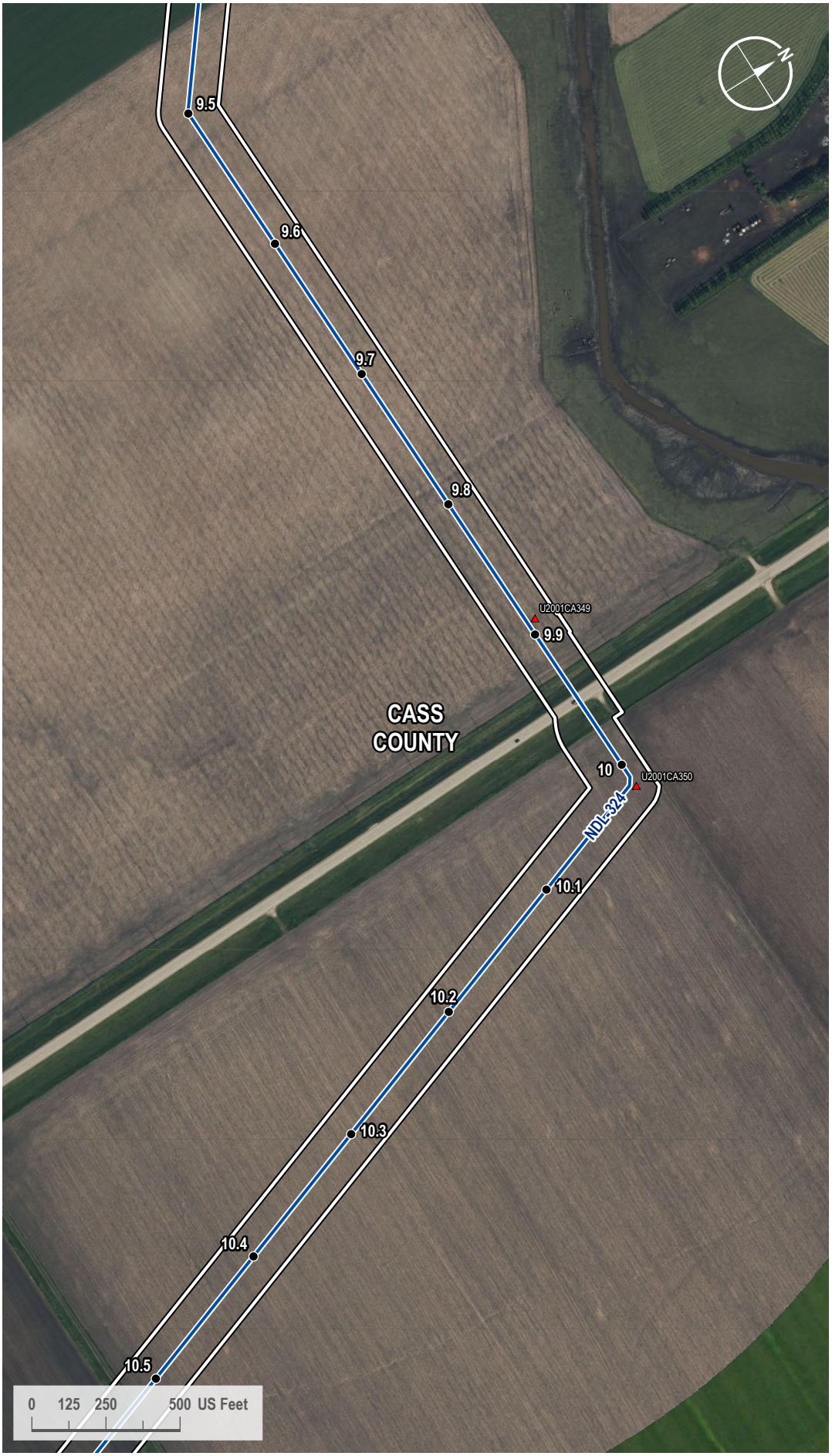

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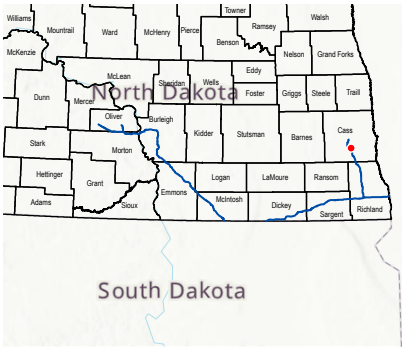

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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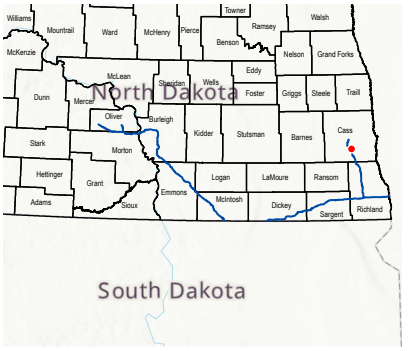

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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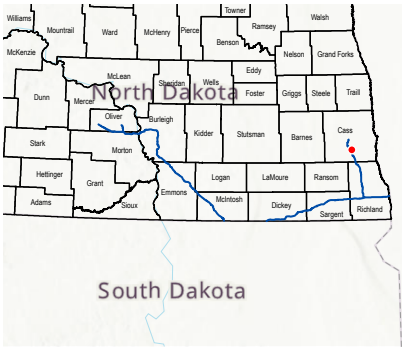

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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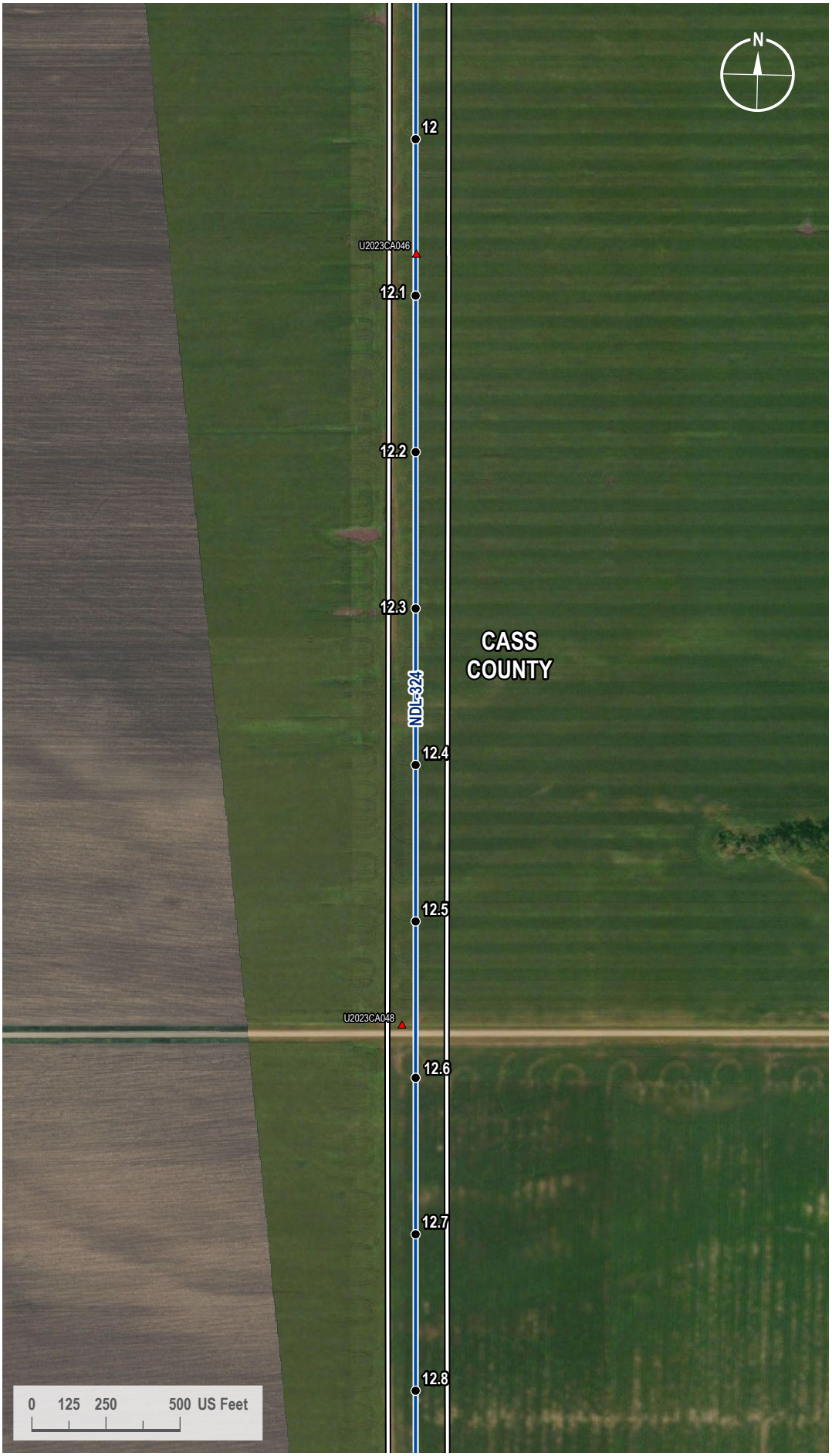

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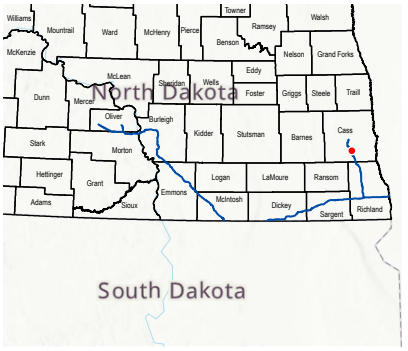

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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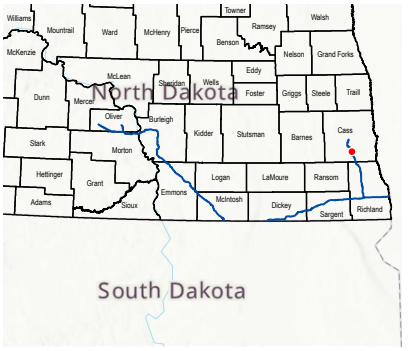

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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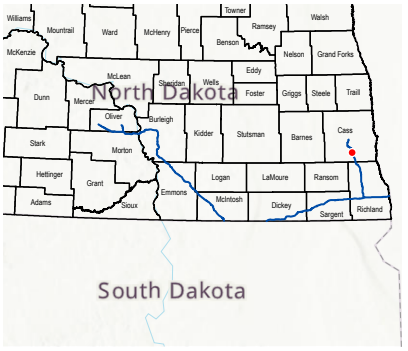

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Forested Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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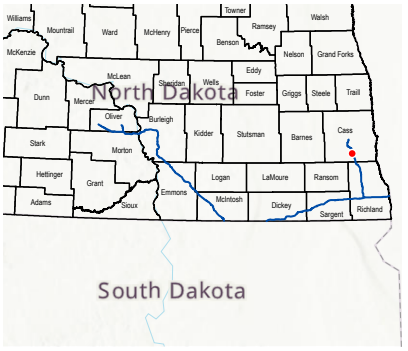

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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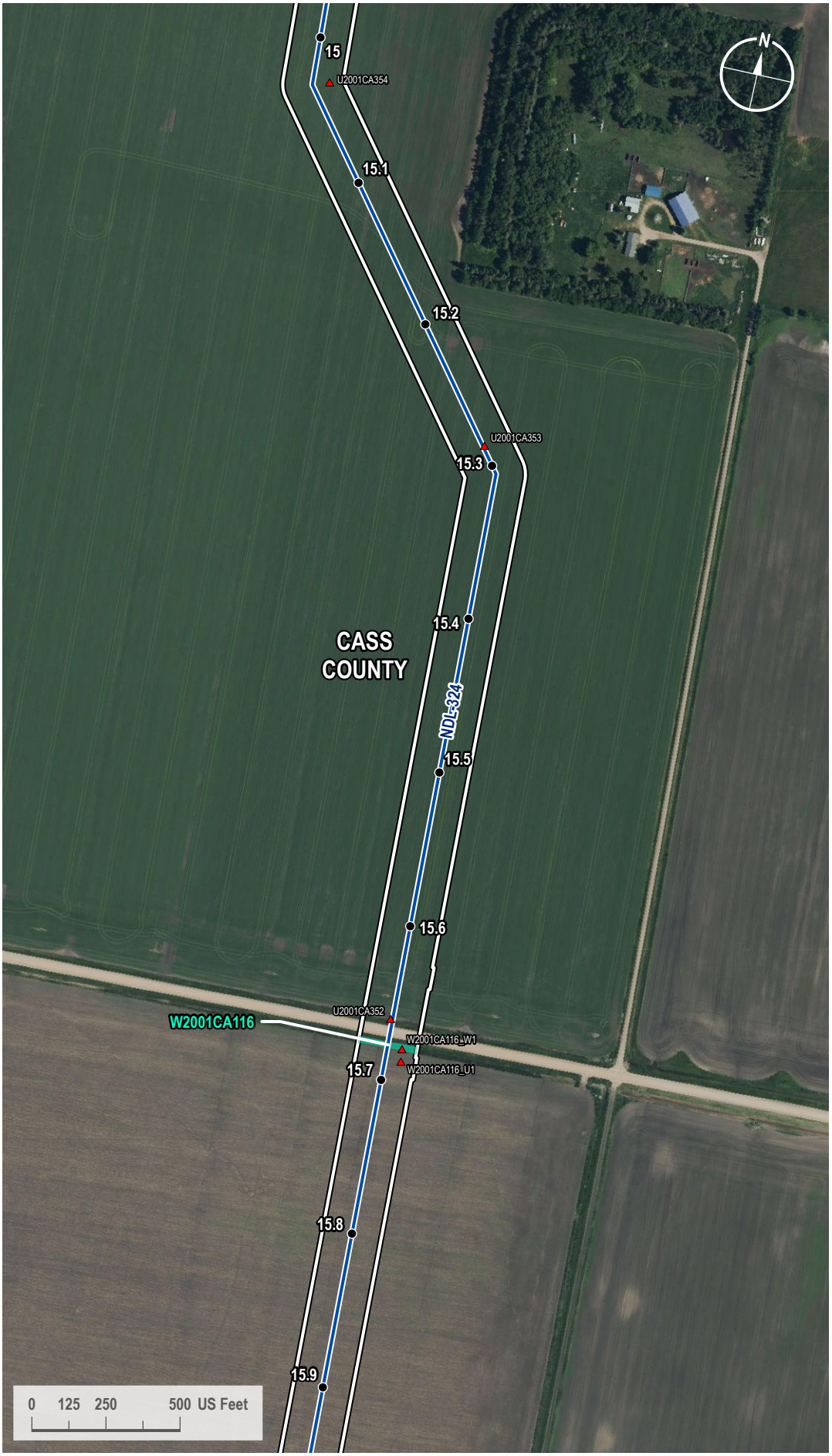

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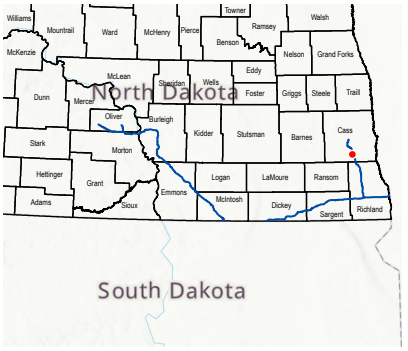

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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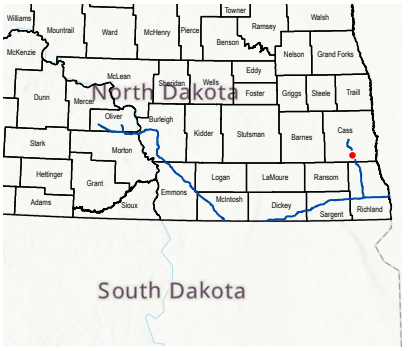

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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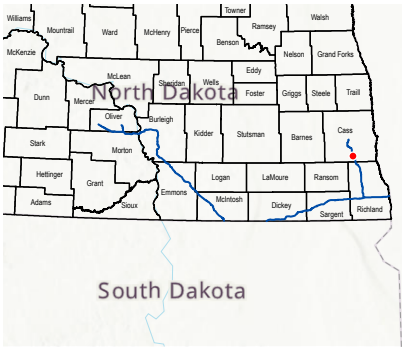

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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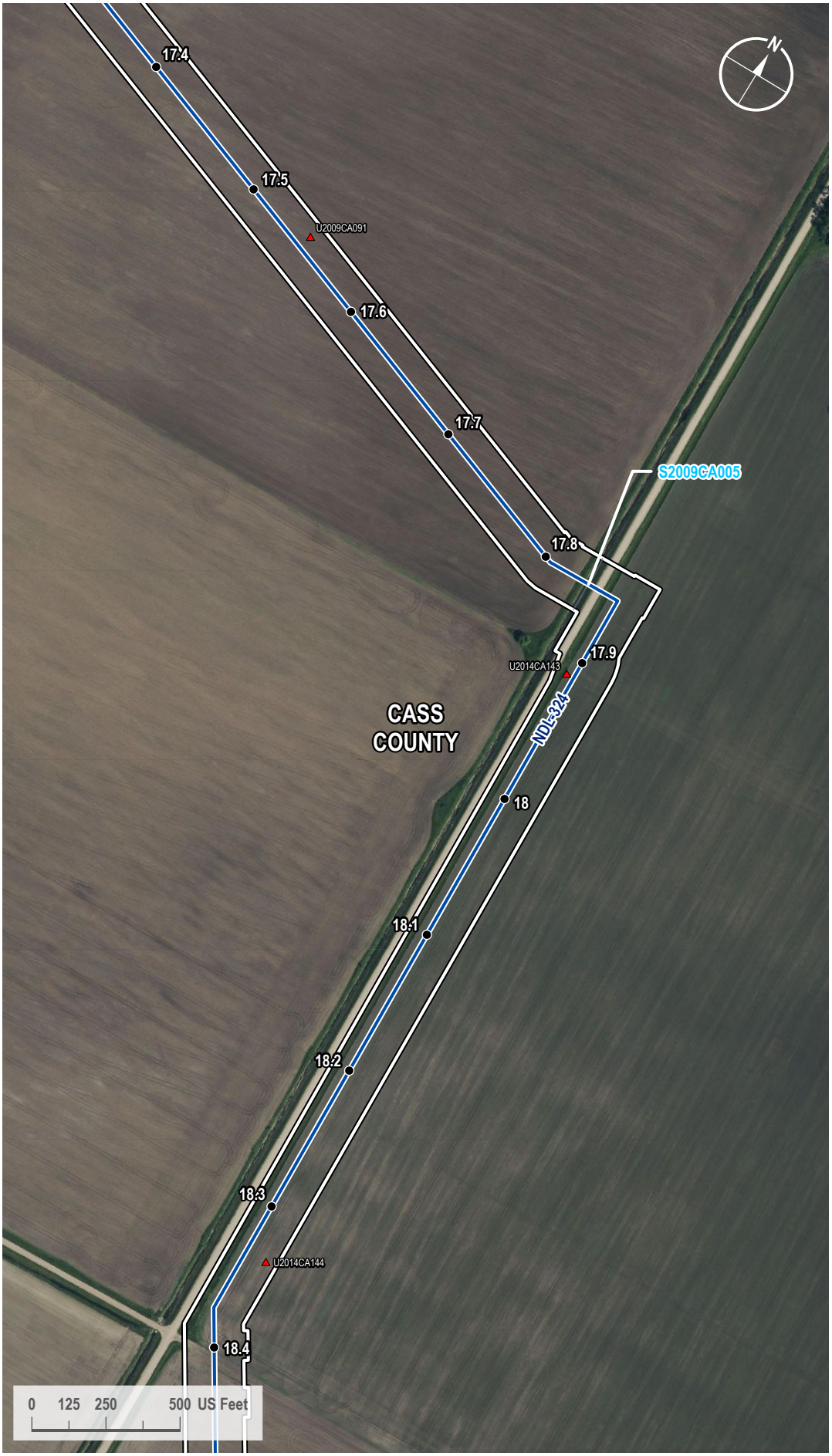

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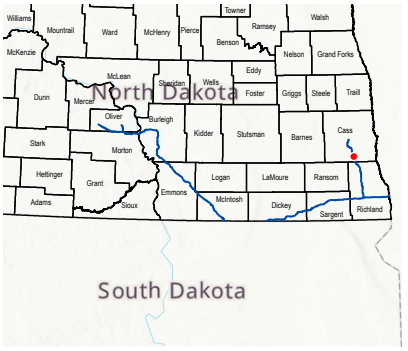

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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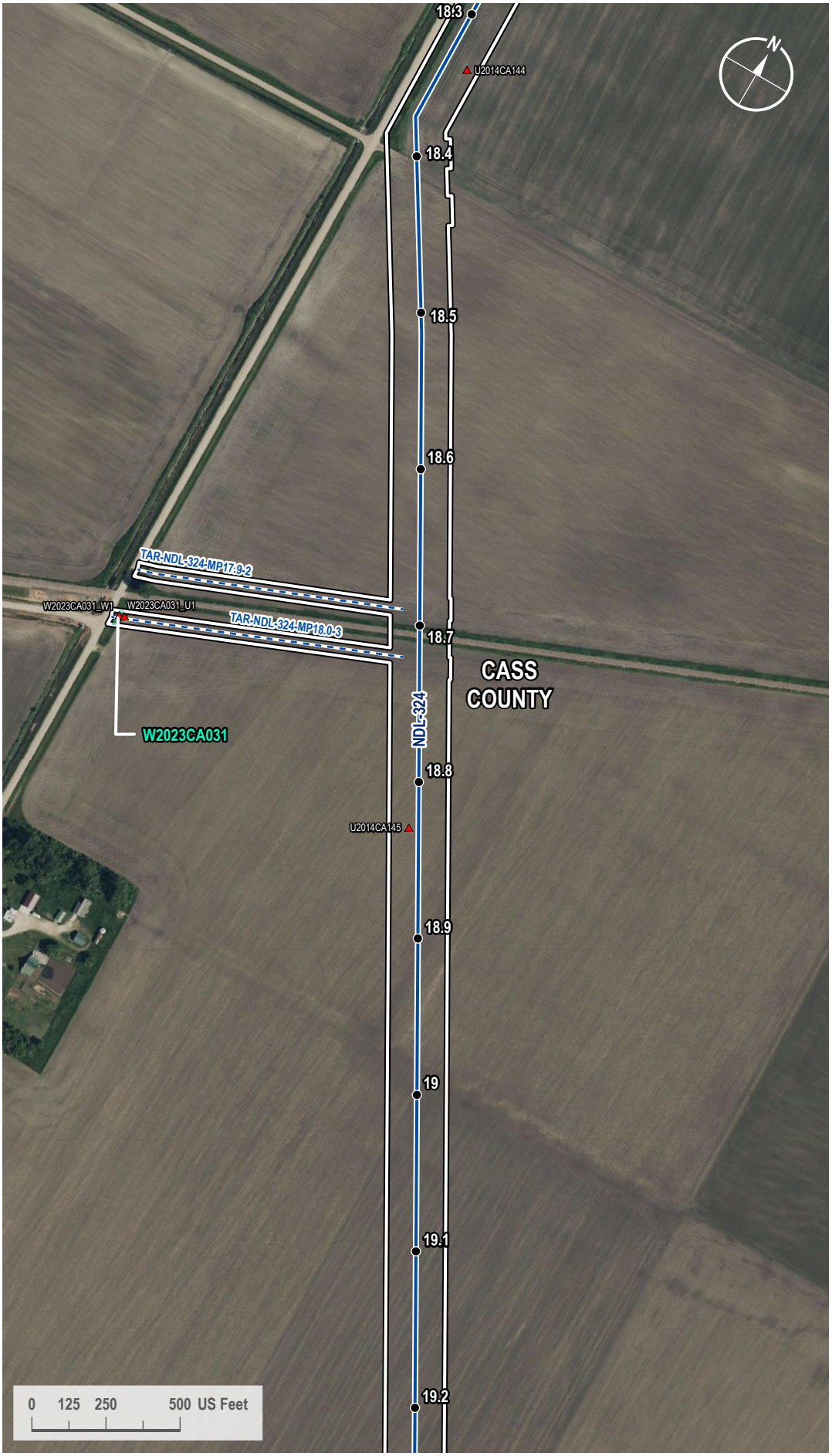

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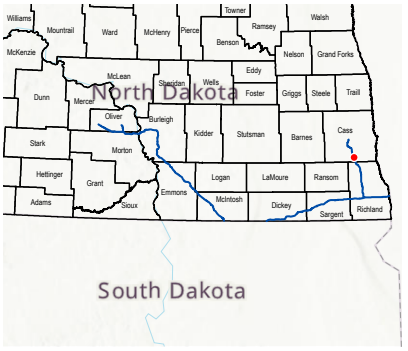

LEGEND

- Milepost
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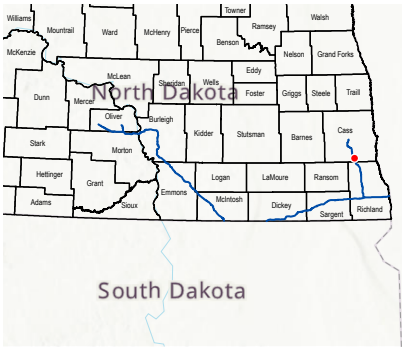

LEGEND

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- Proposed Route
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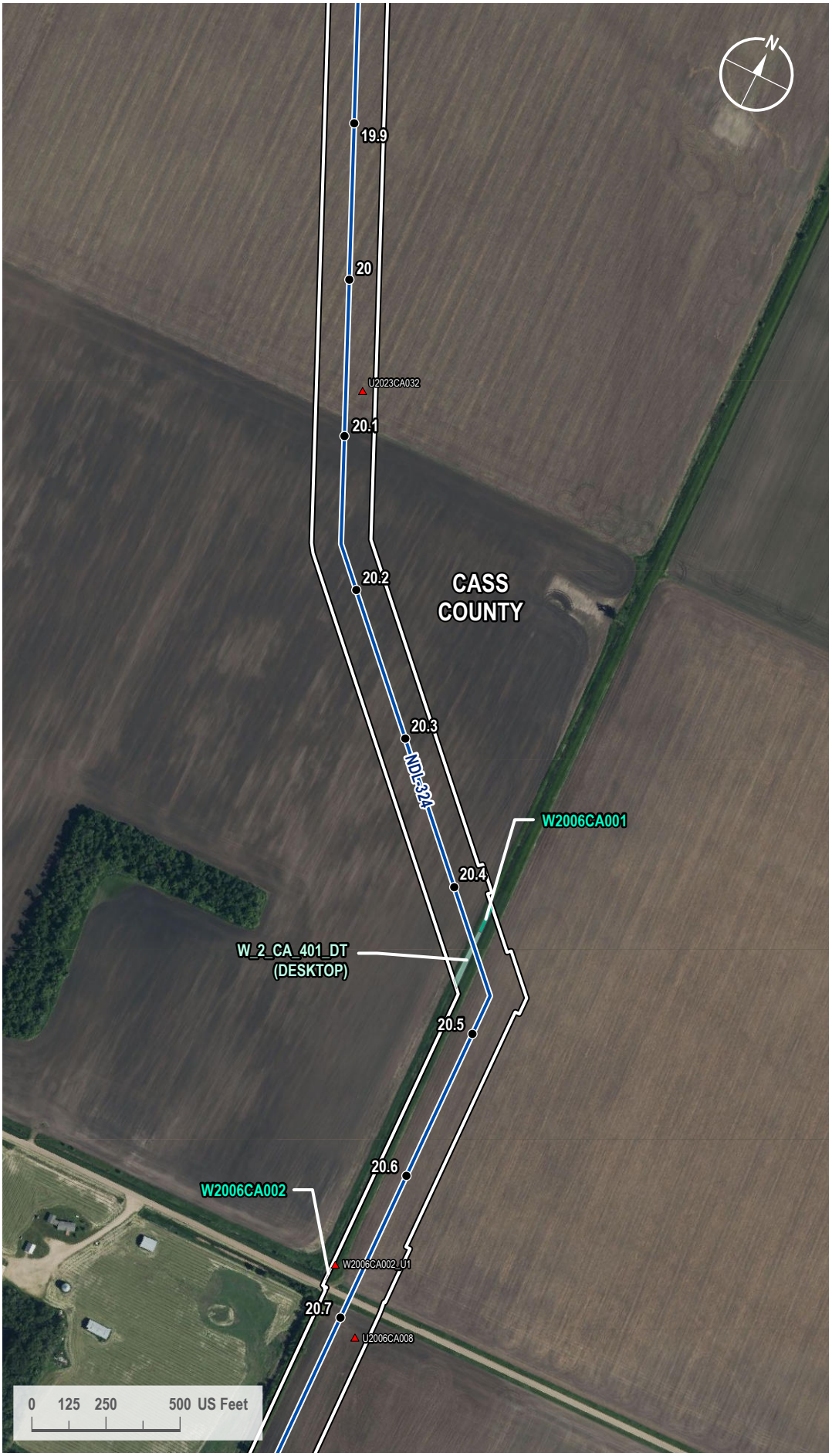
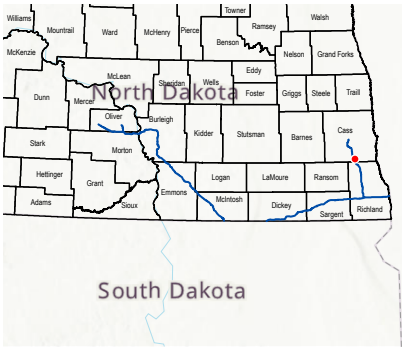


VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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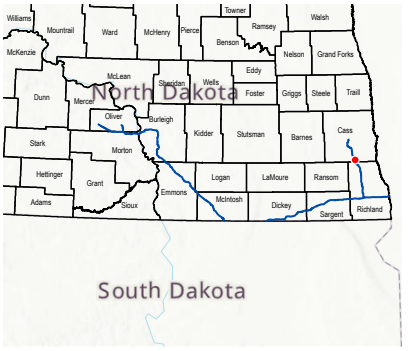
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



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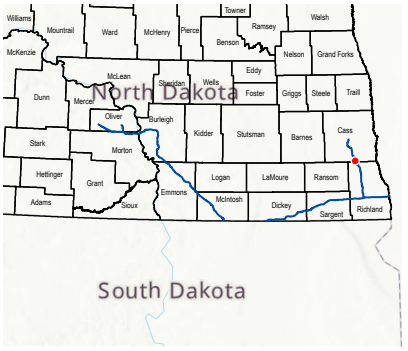

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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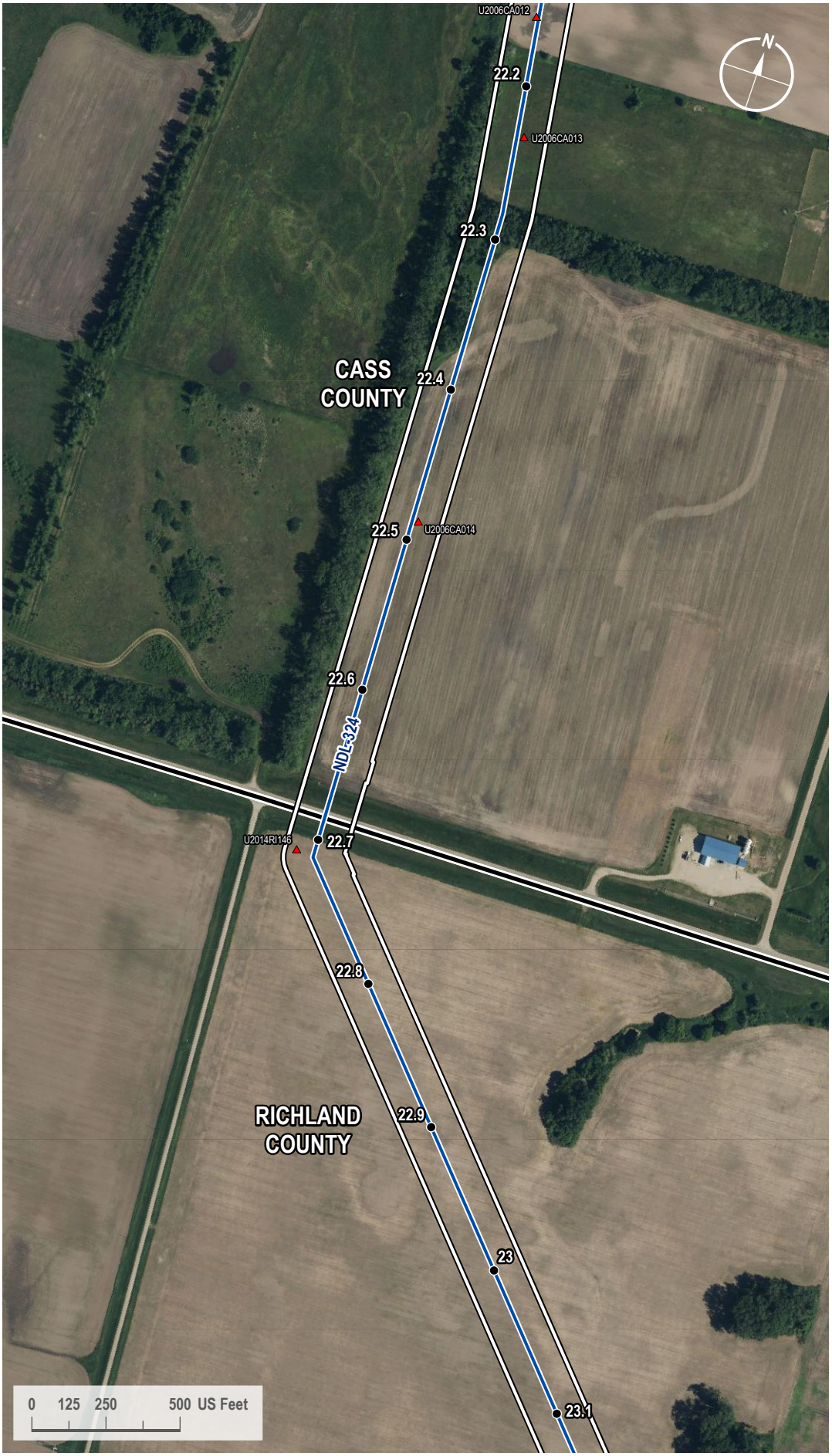

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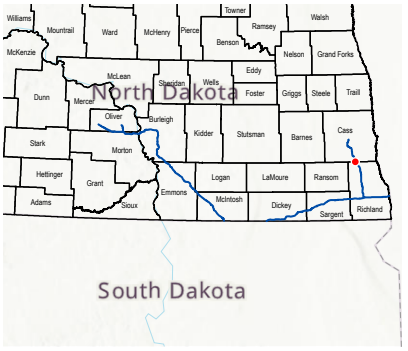

LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor

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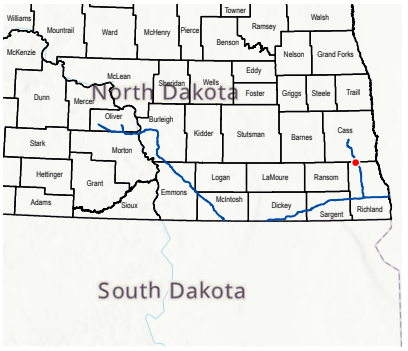
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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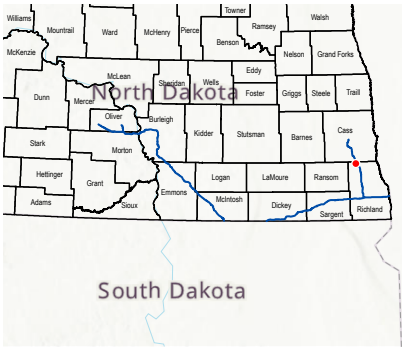
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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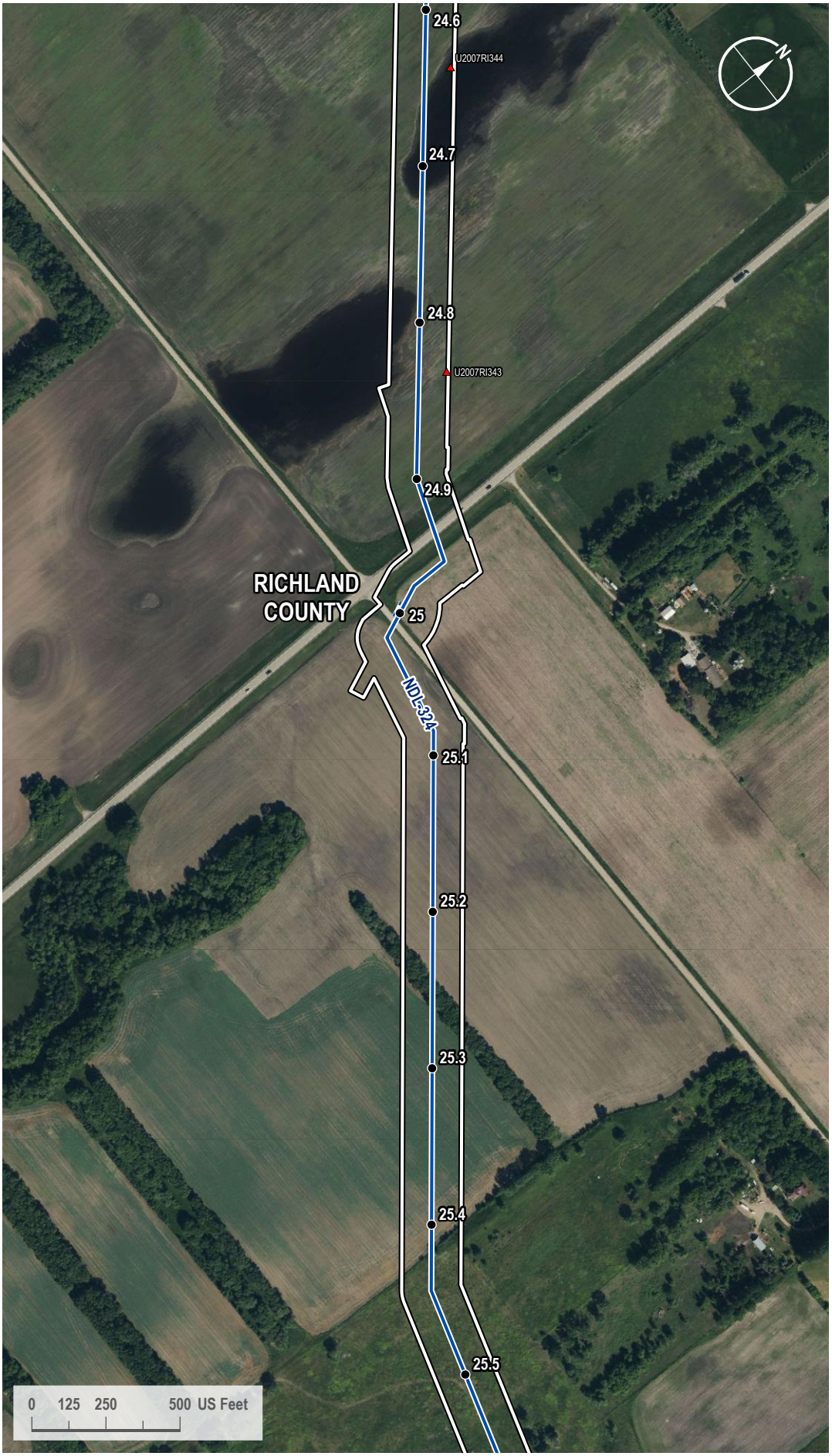

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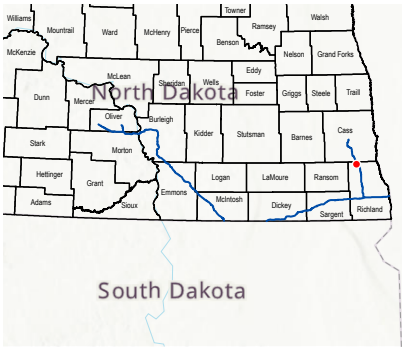

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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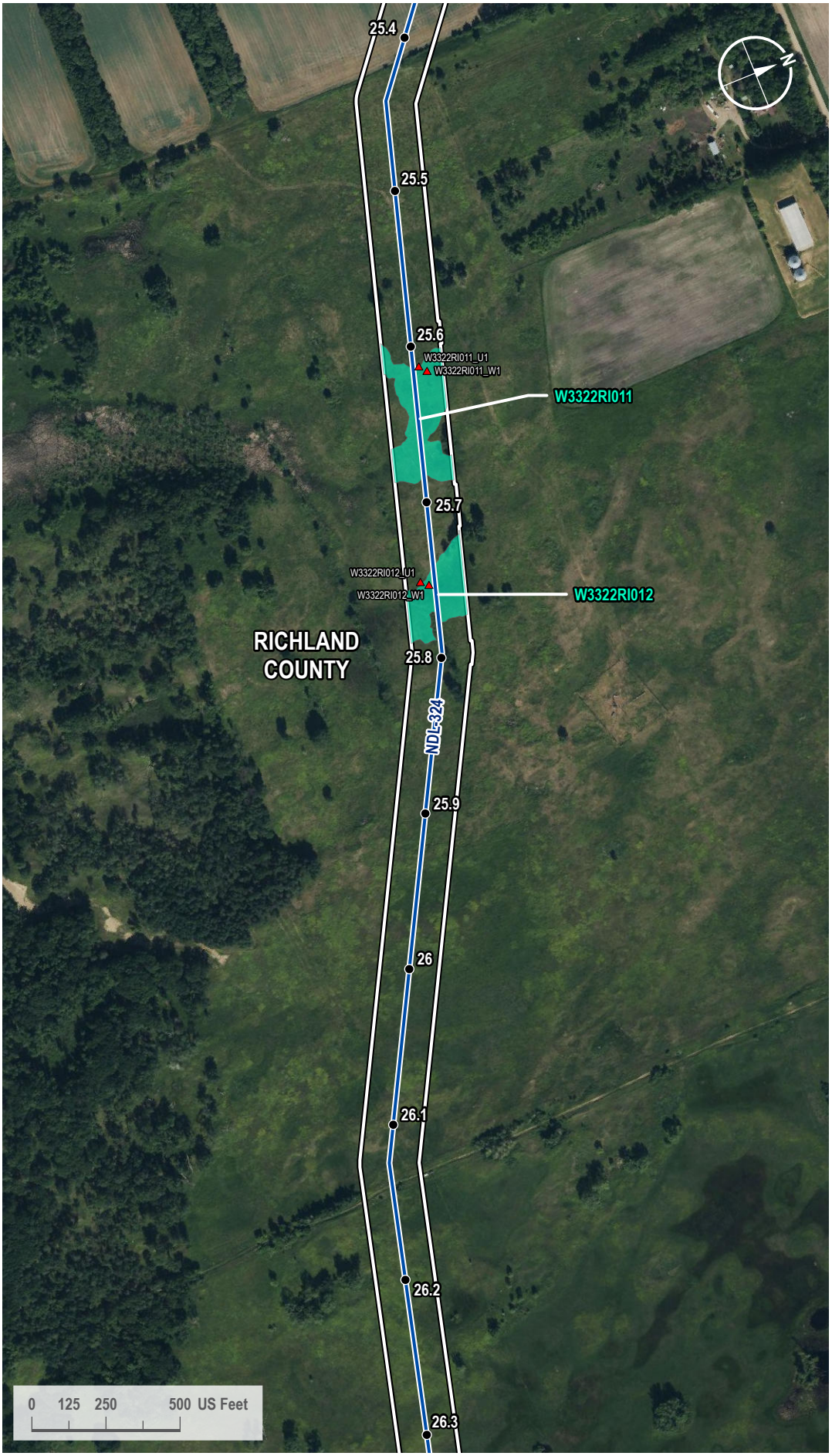

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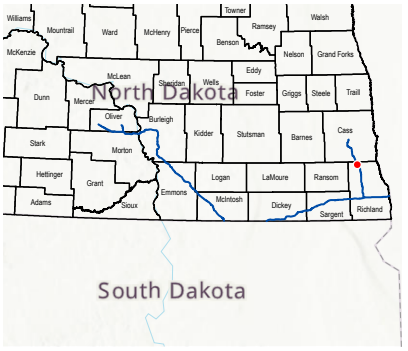

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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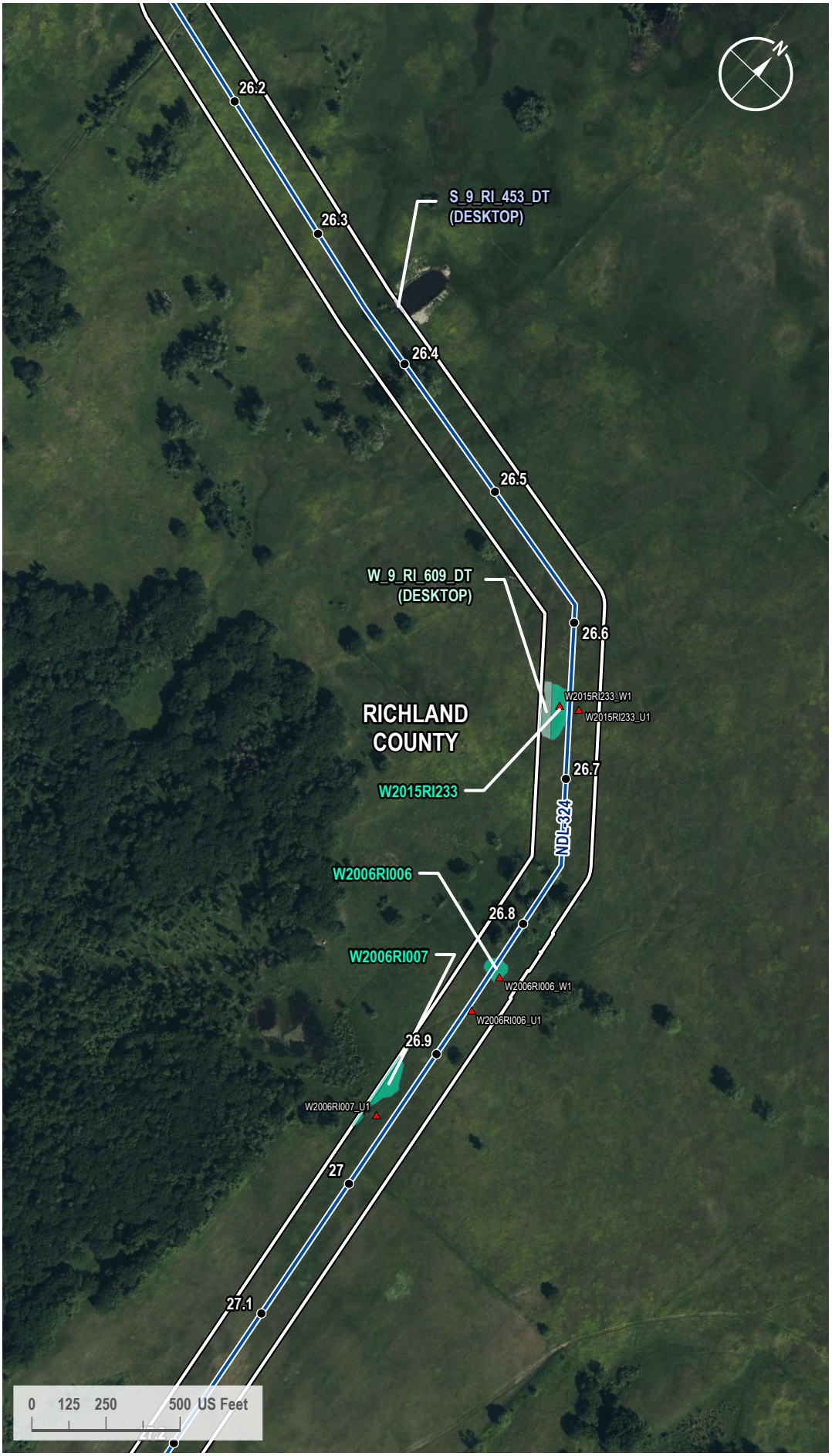

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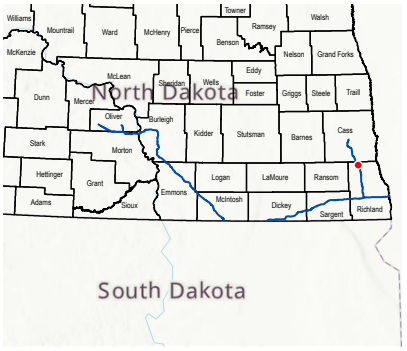

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Desktop)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



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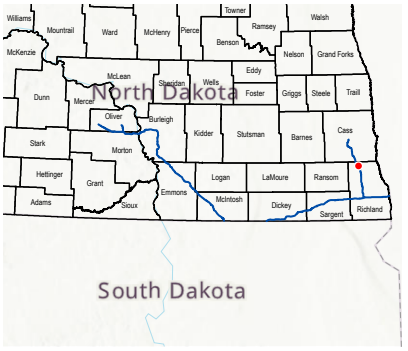

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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AERIAL MAP



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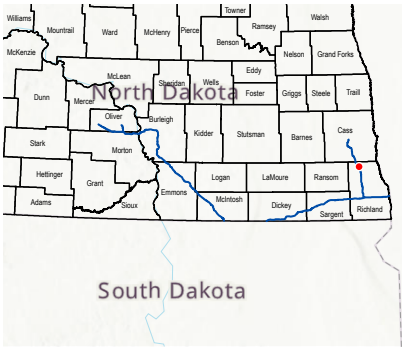

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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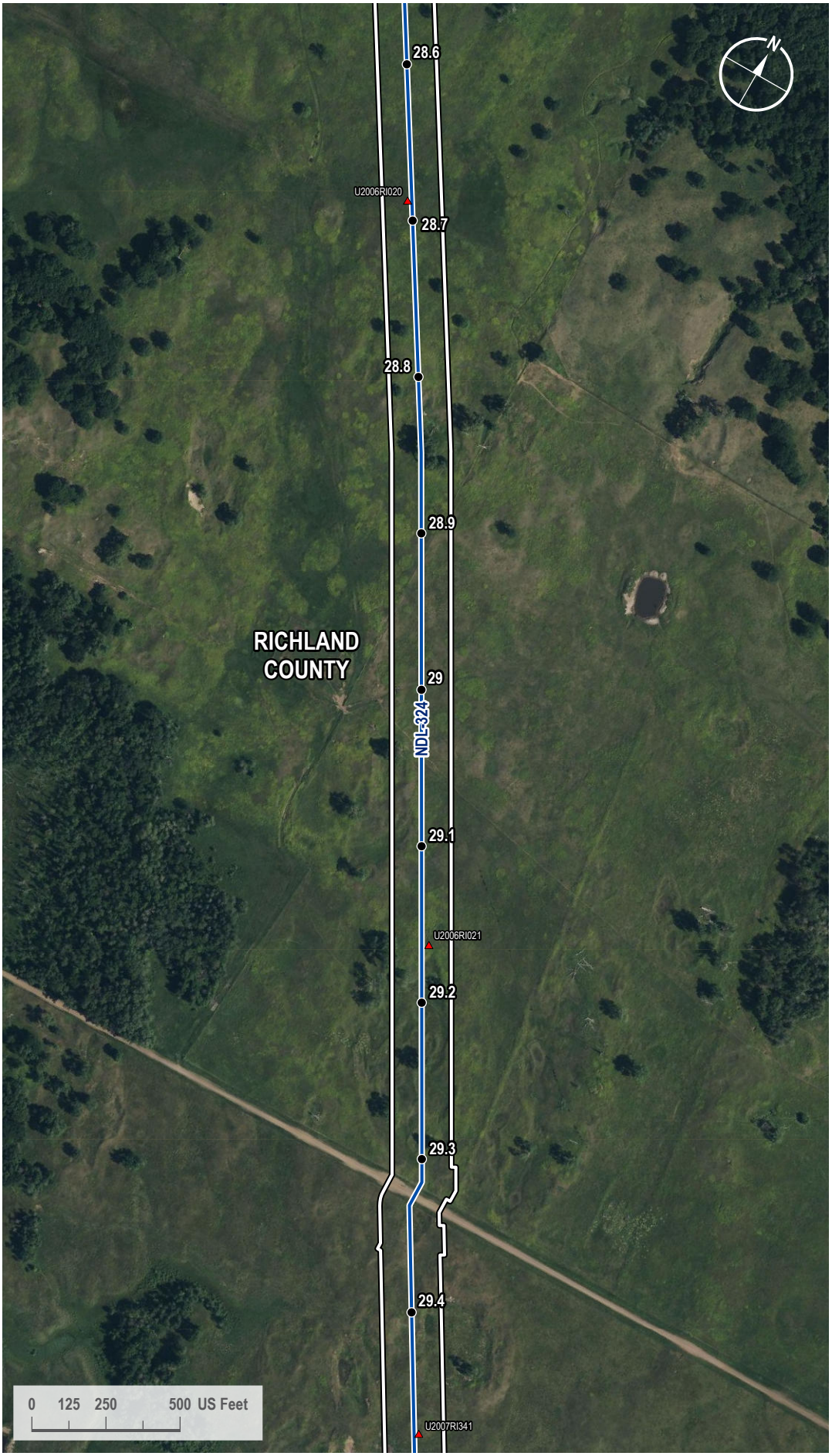

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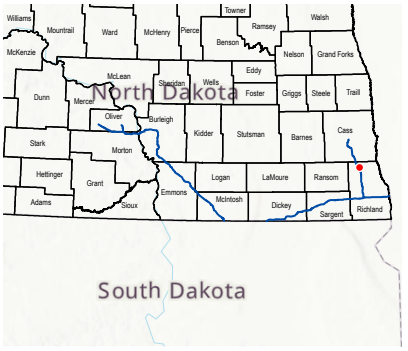

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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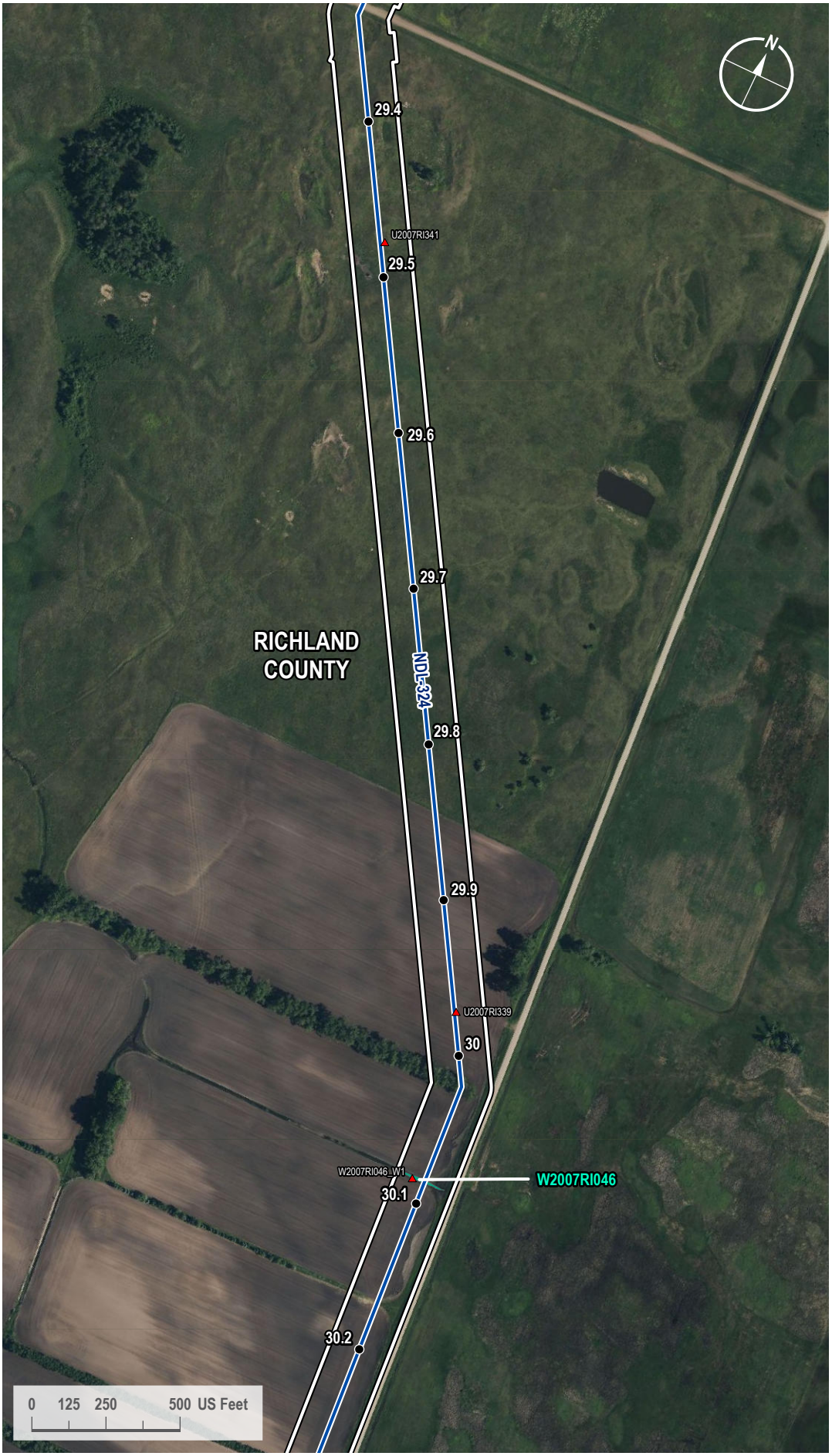

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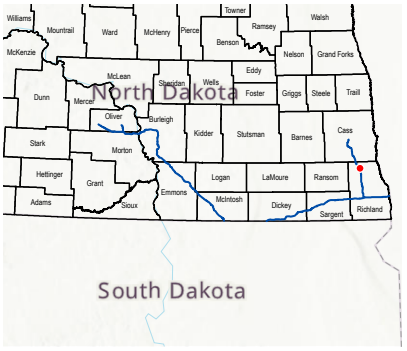

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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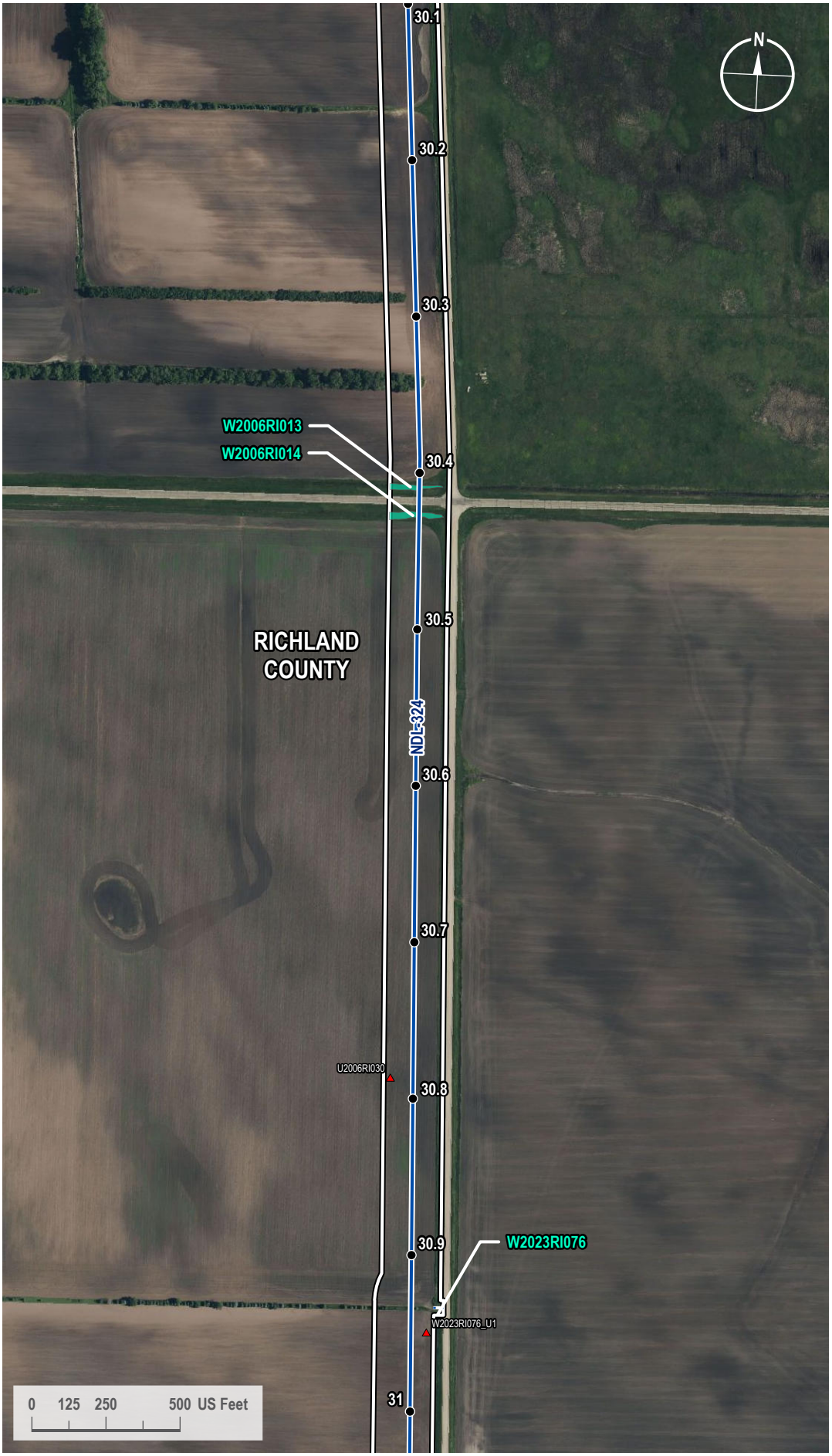

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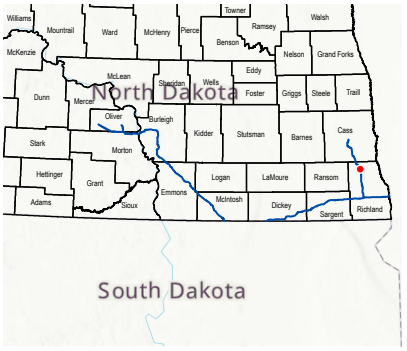

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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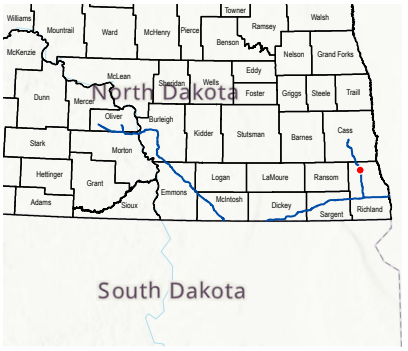
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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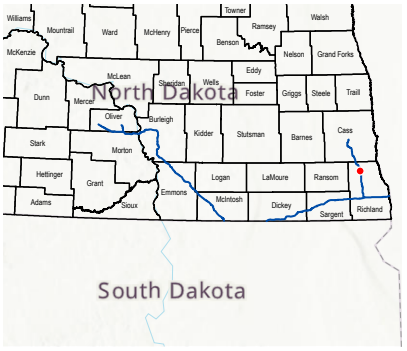
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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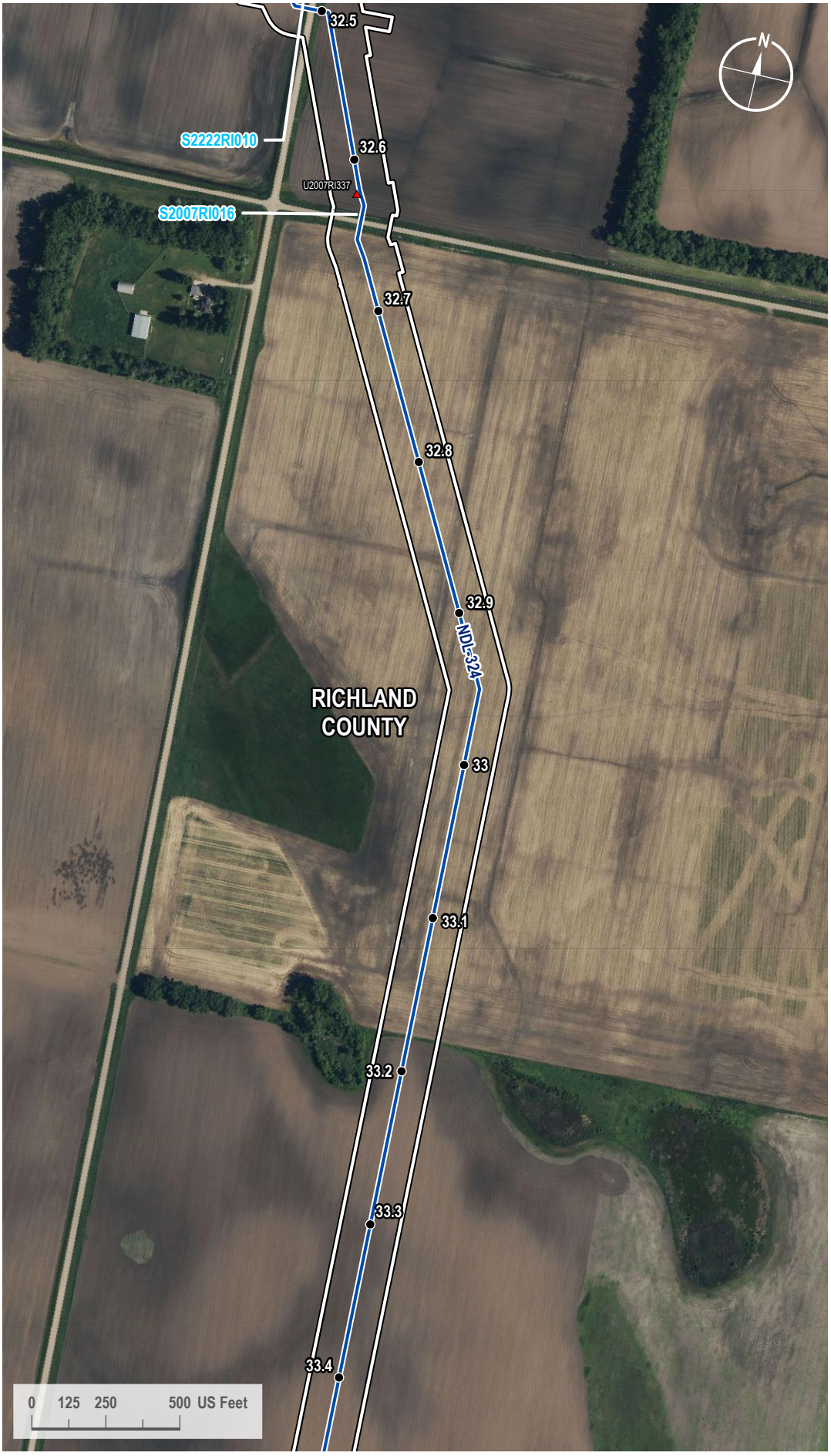

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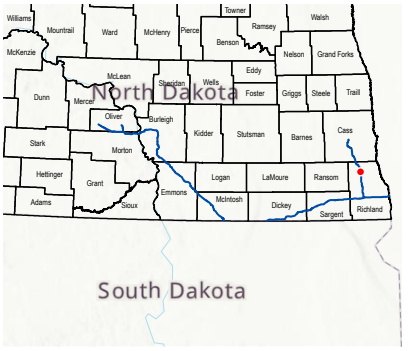

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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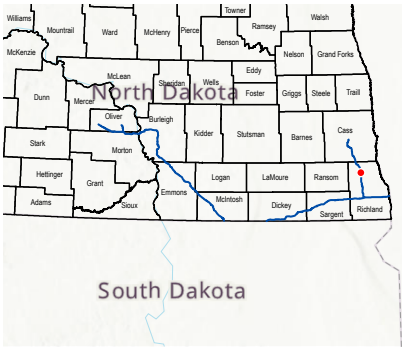

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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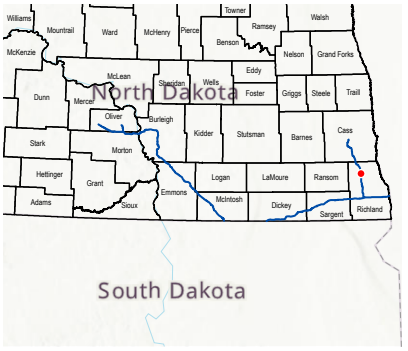

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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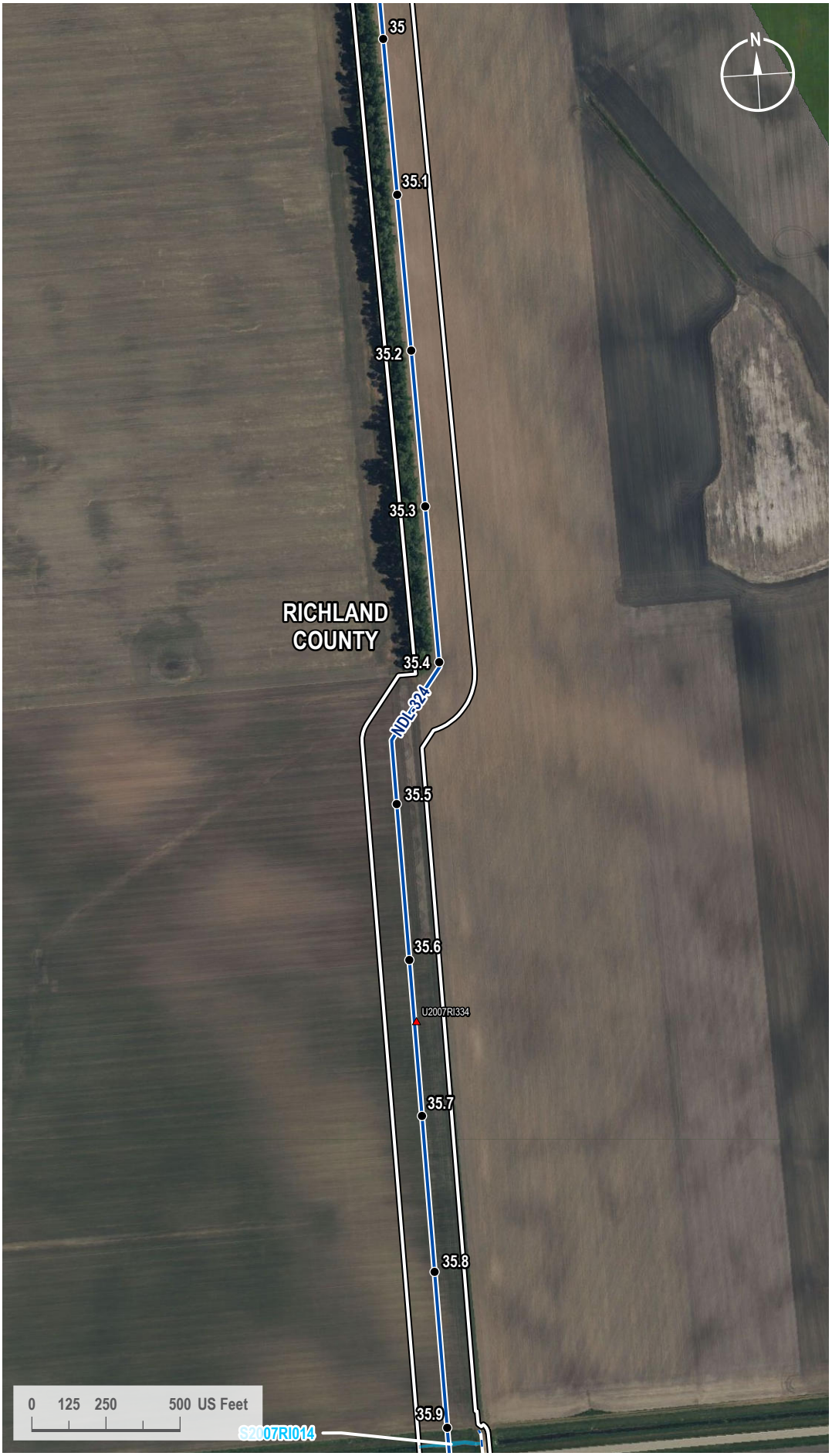

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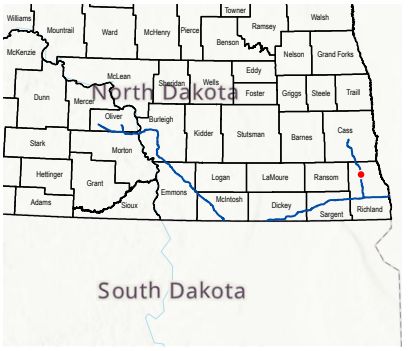

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)

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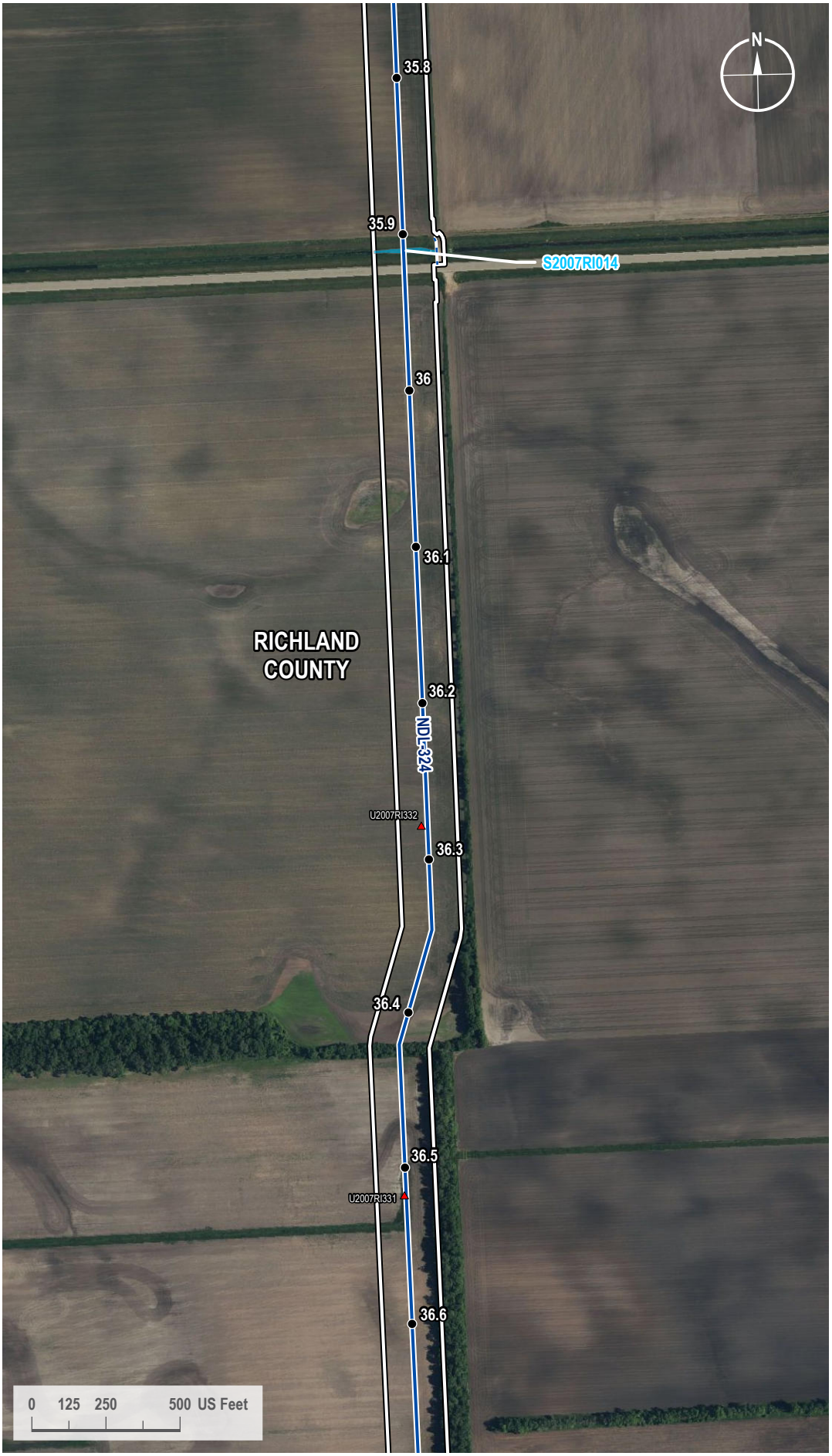

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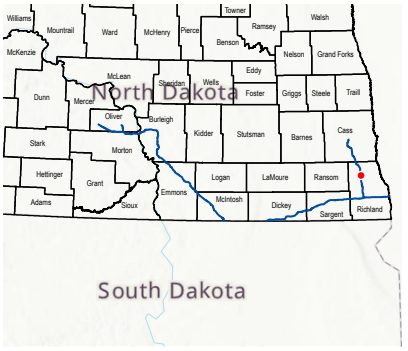

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)

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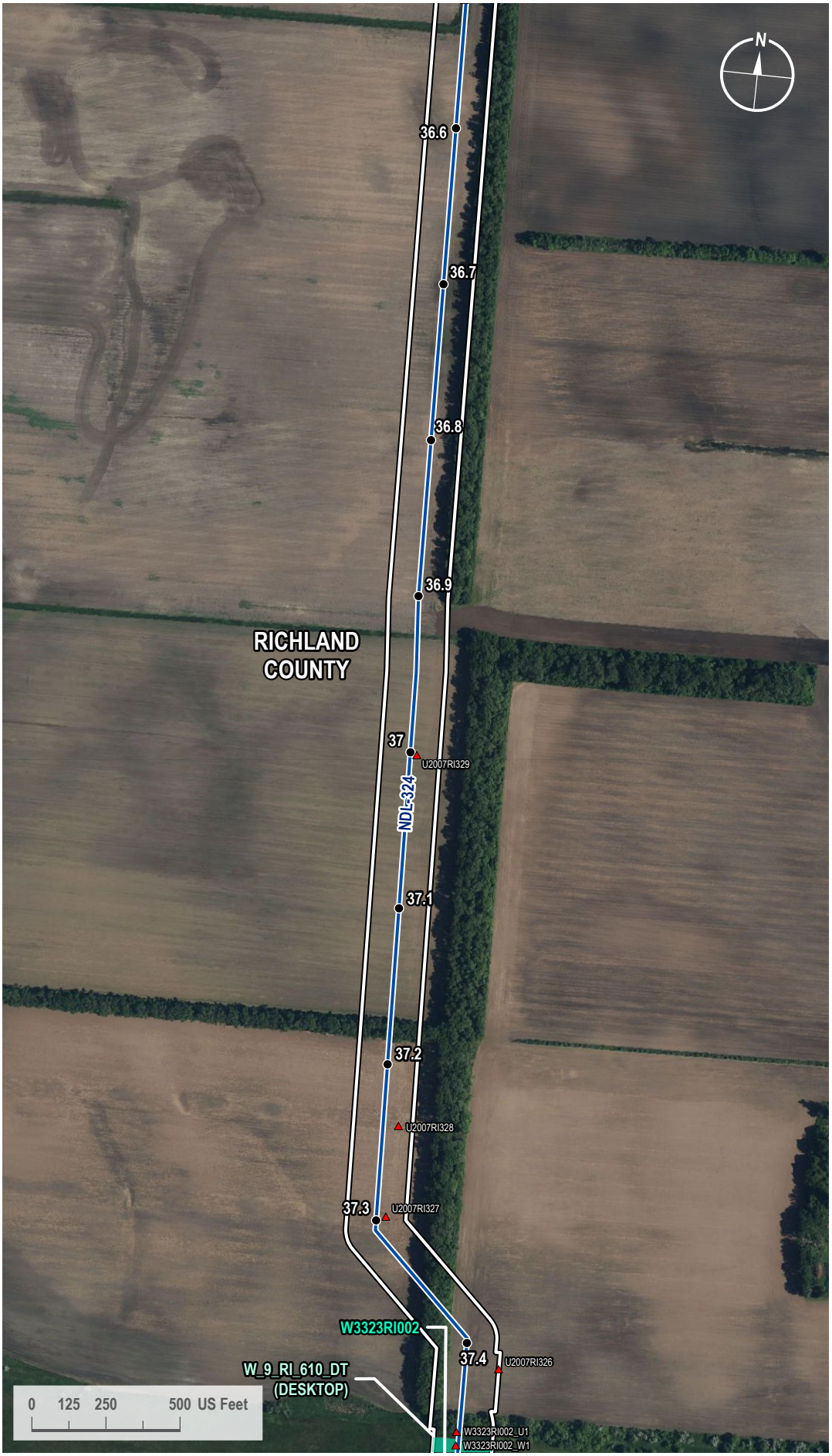

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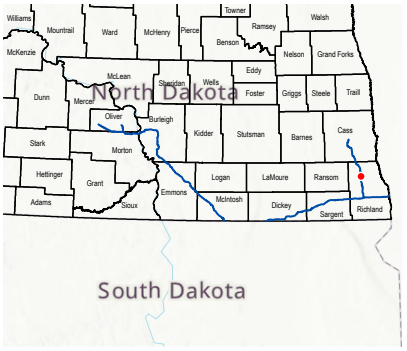

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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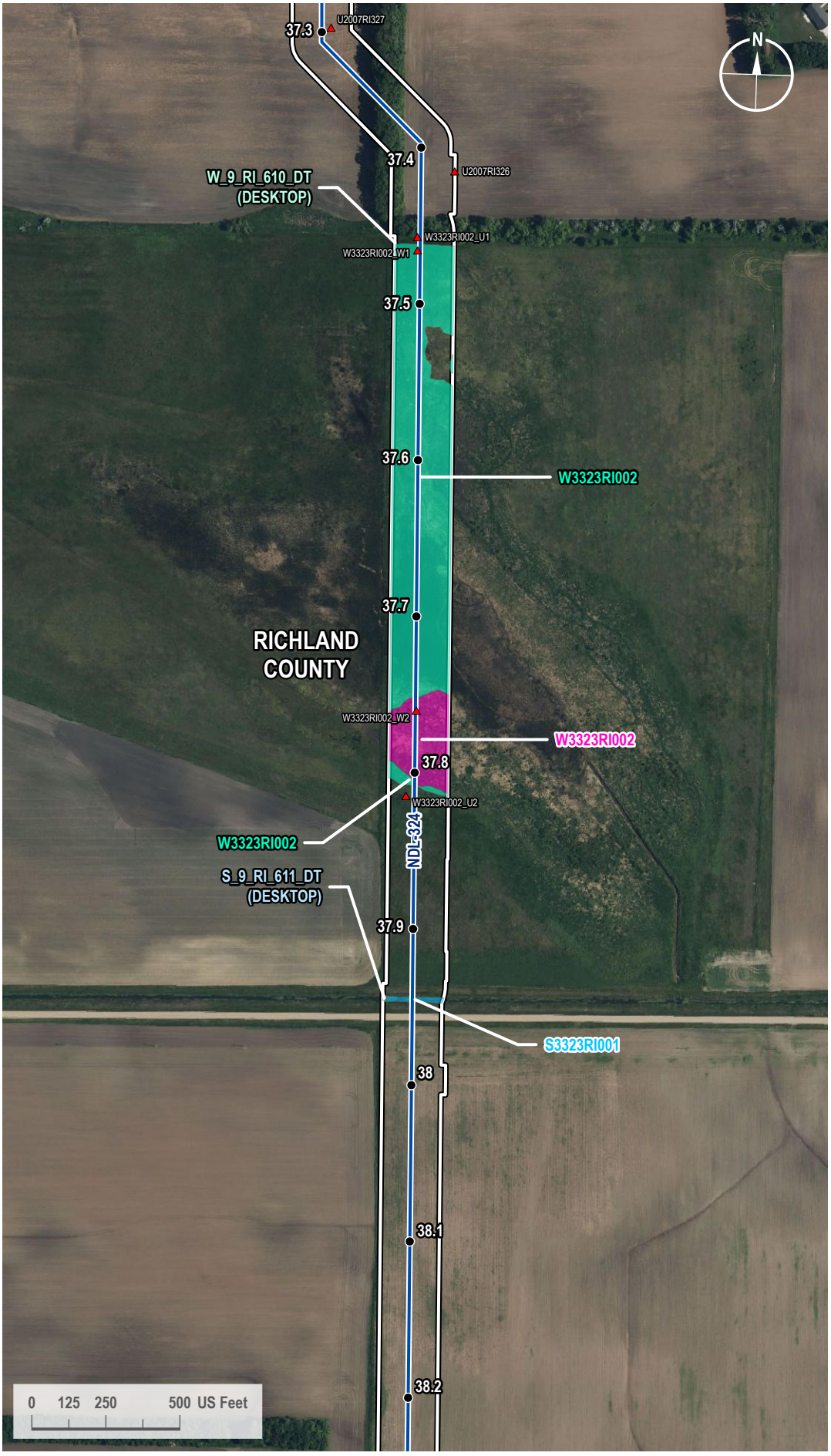

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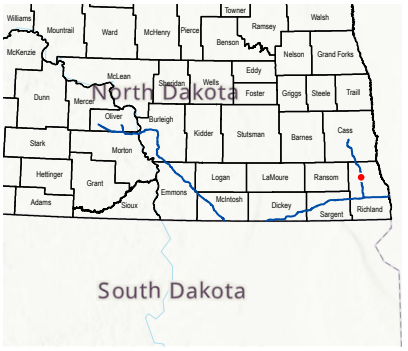

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Scrub-Shrub Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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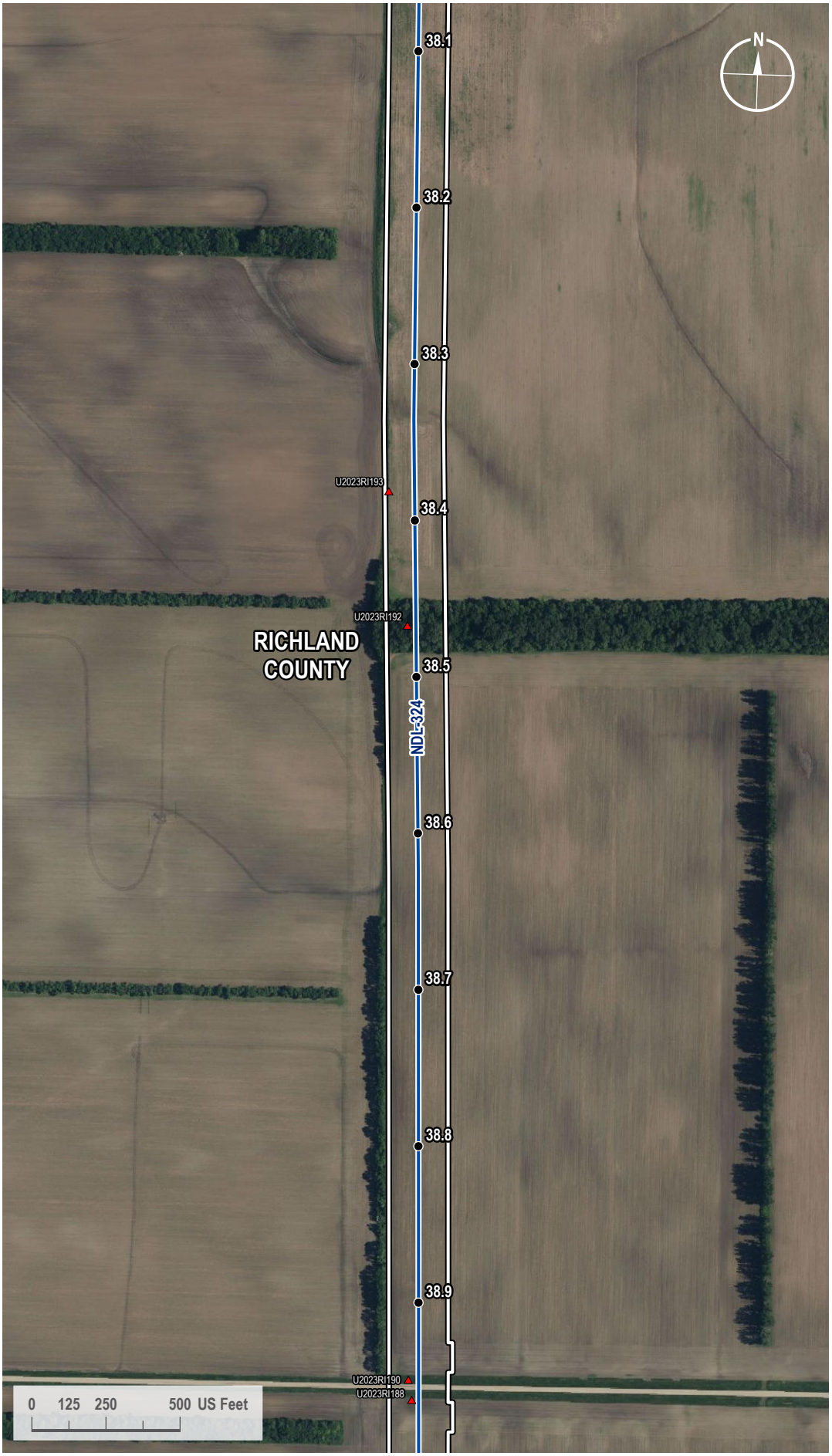

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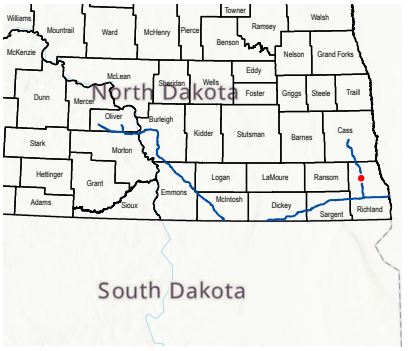

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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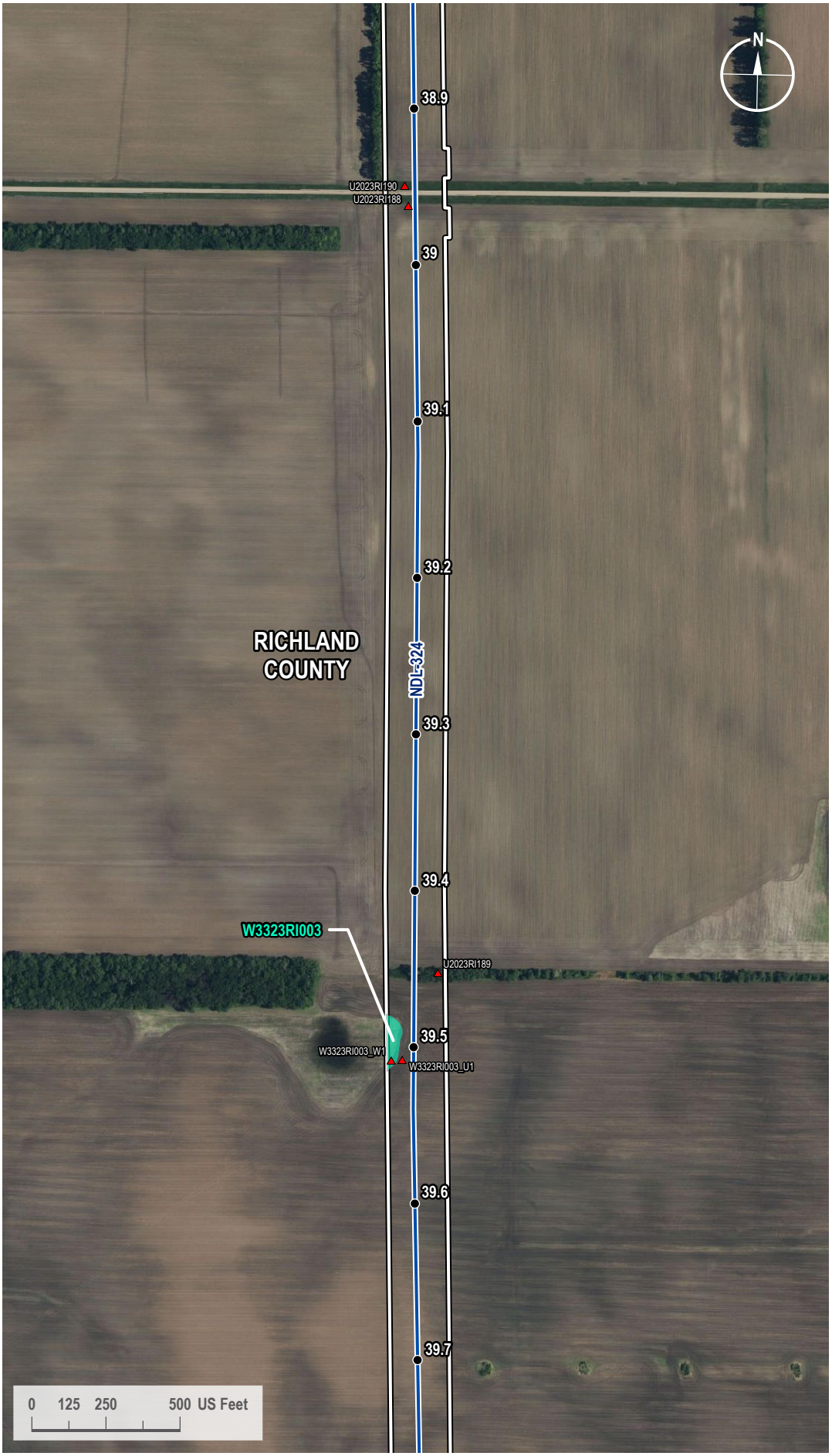

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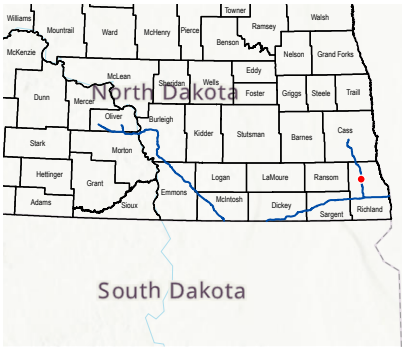

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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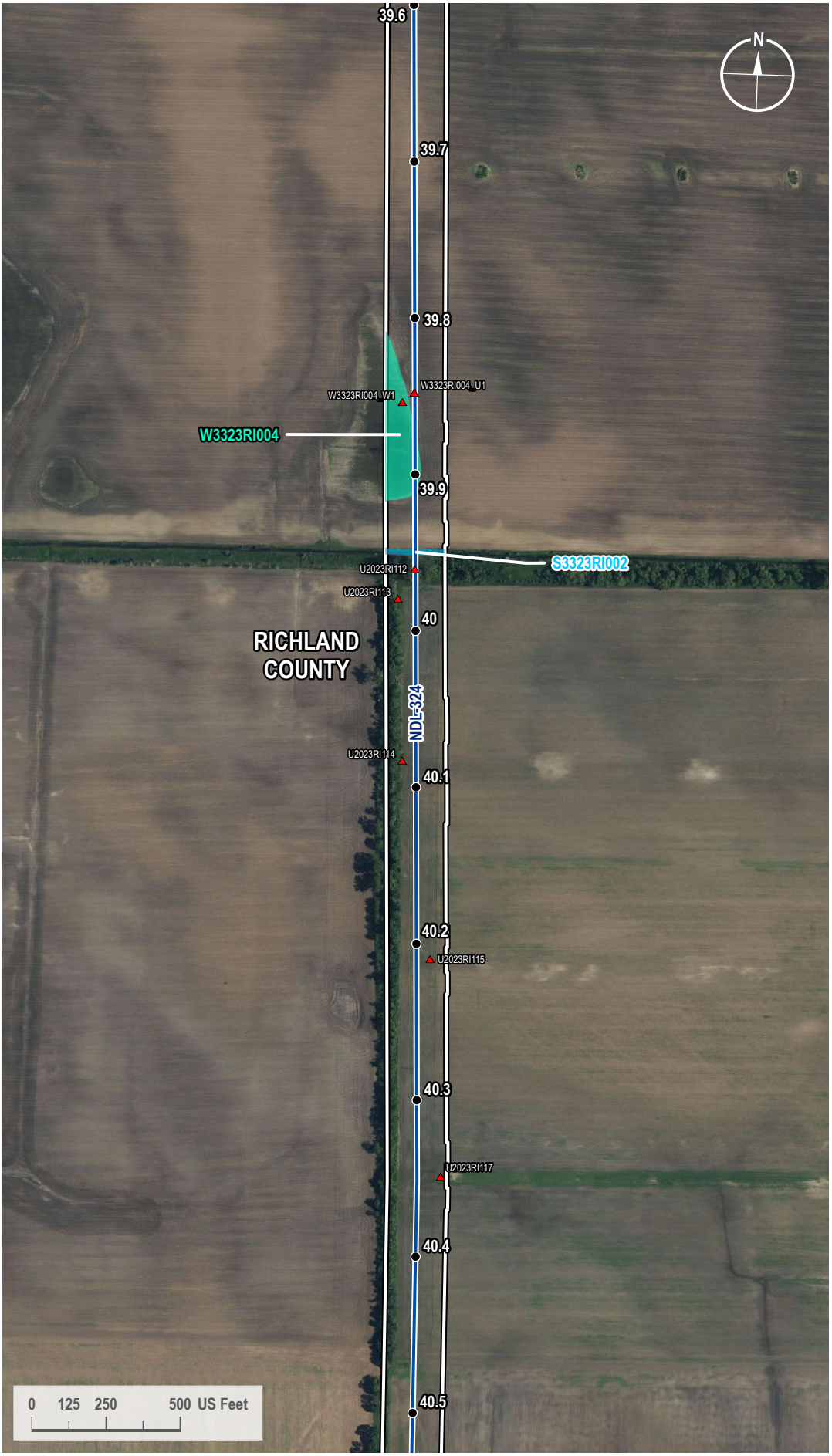

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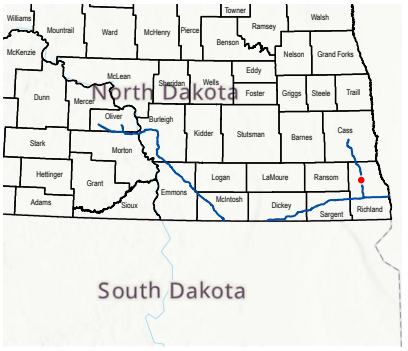

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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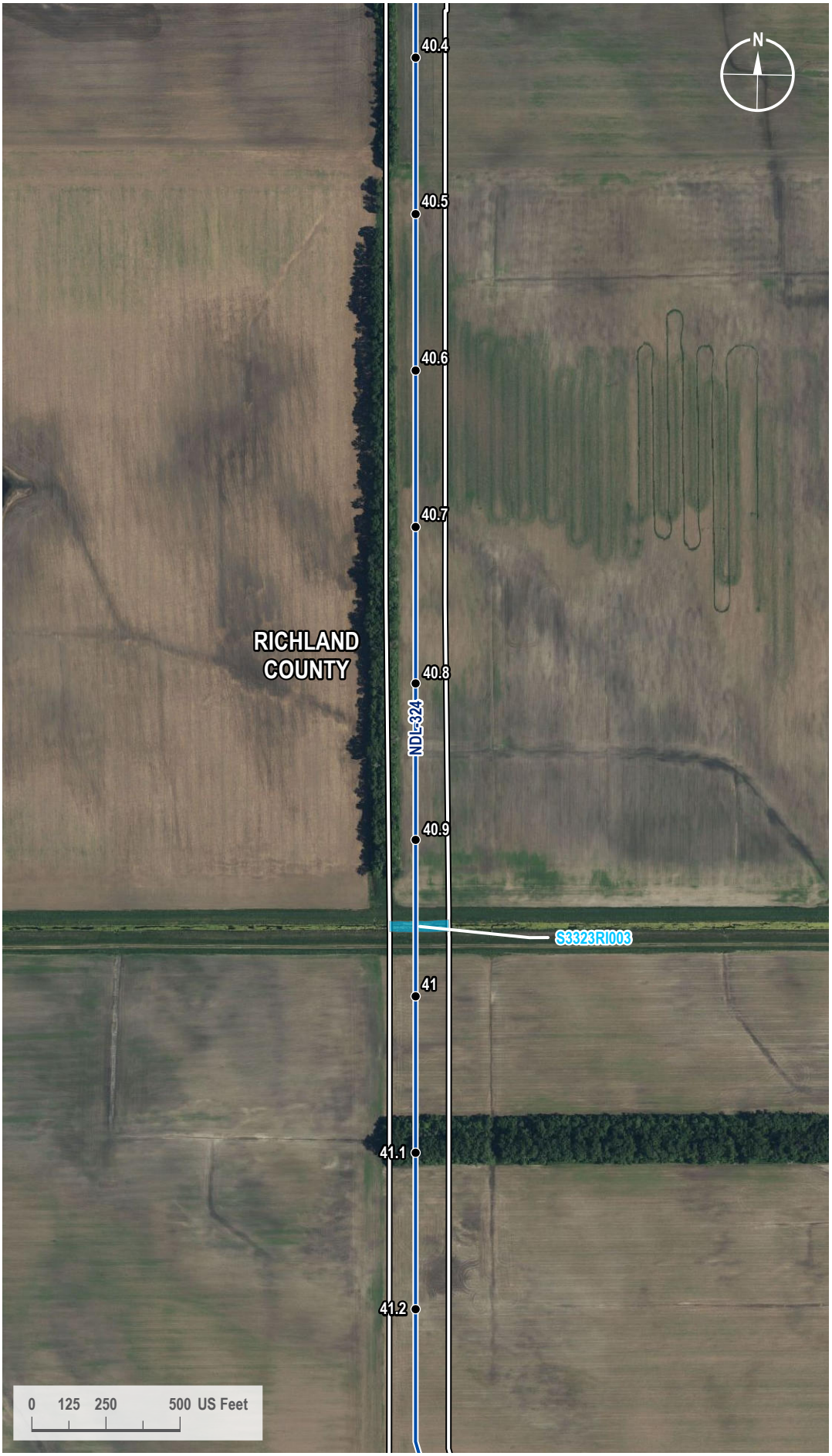

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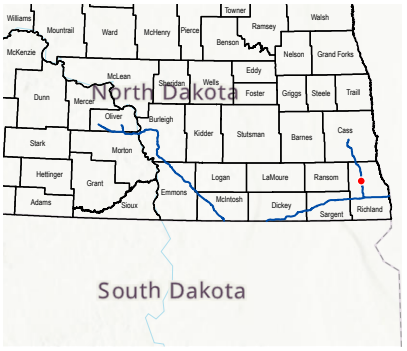

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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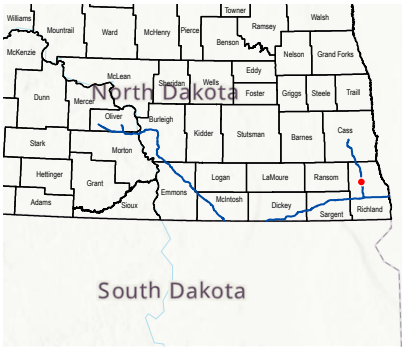

LEGEND

- Milepost
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- Proposed Route
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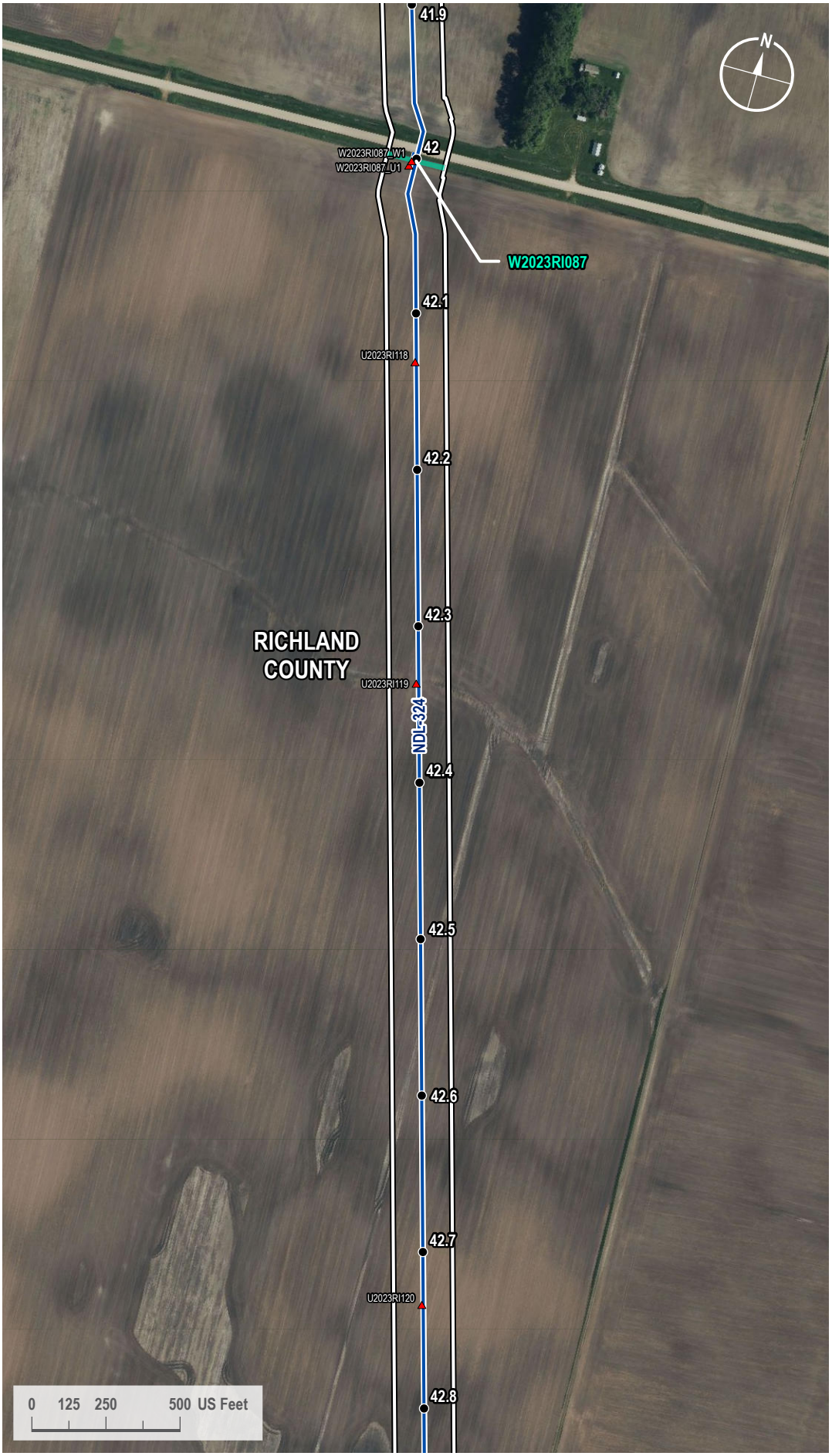

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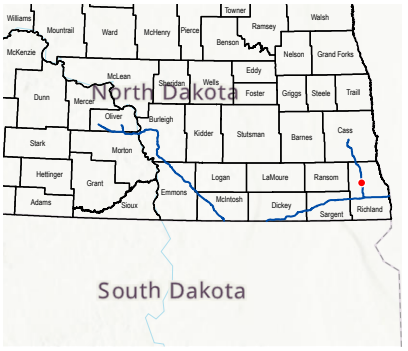

LEGEND

- Milepost
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AERIAL MAP



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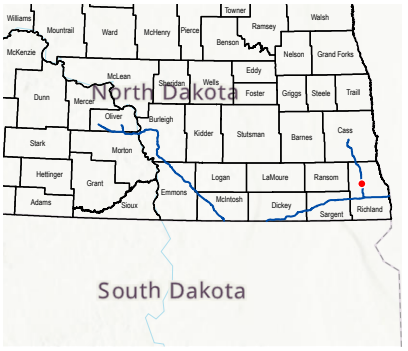

LEGEND

- Milepost
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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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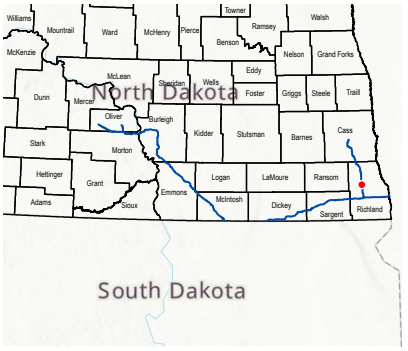
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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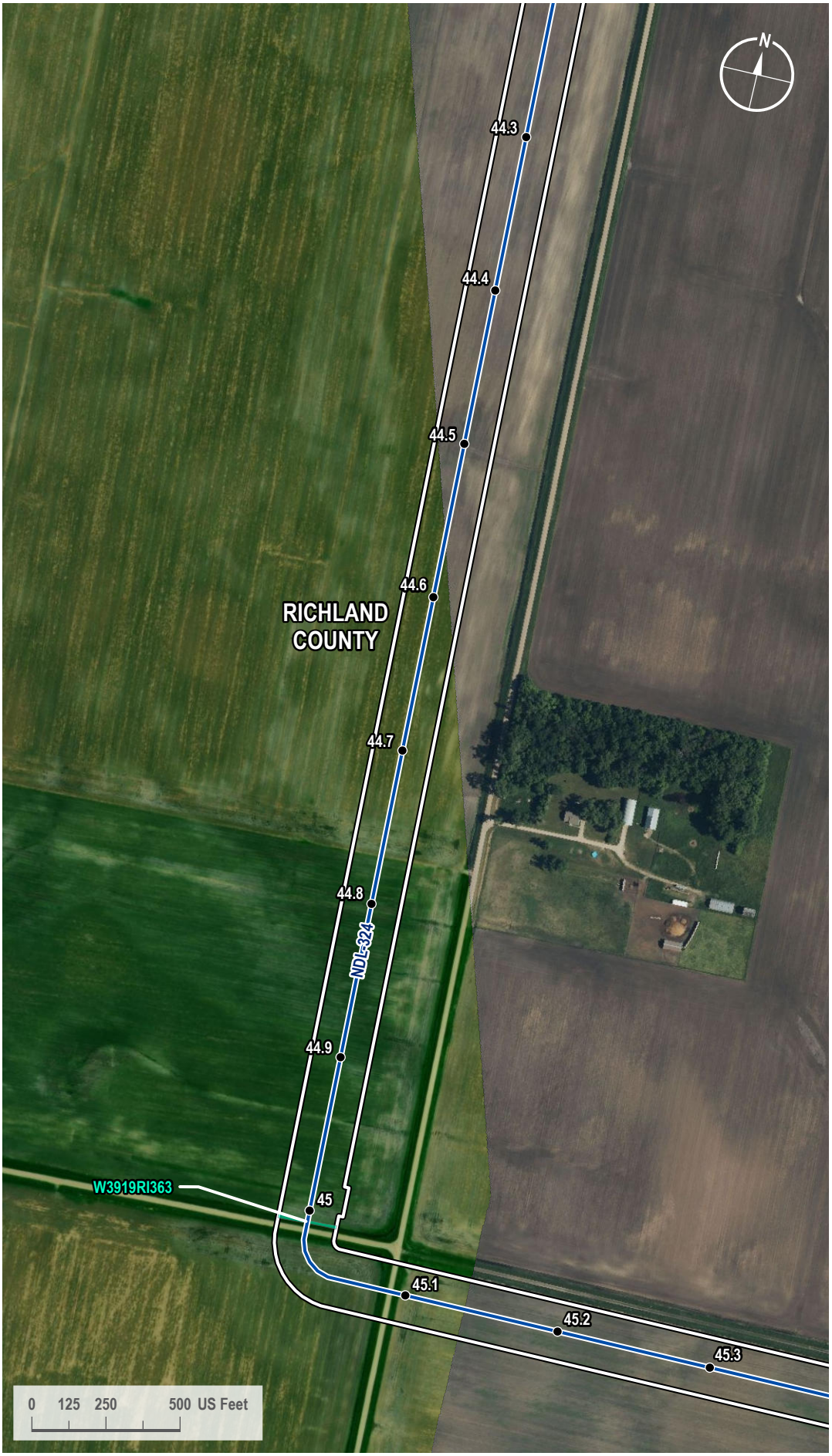

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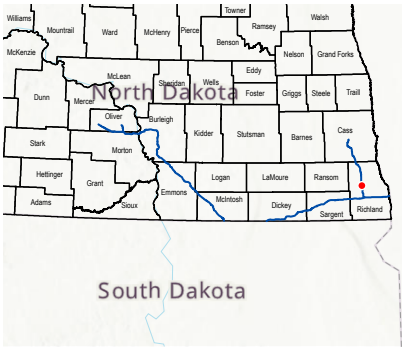

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



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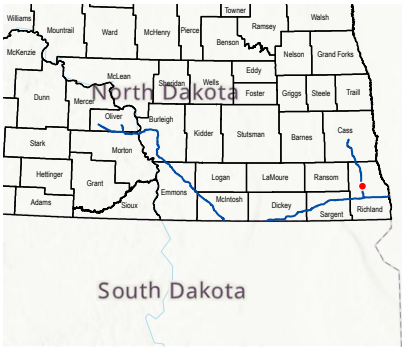

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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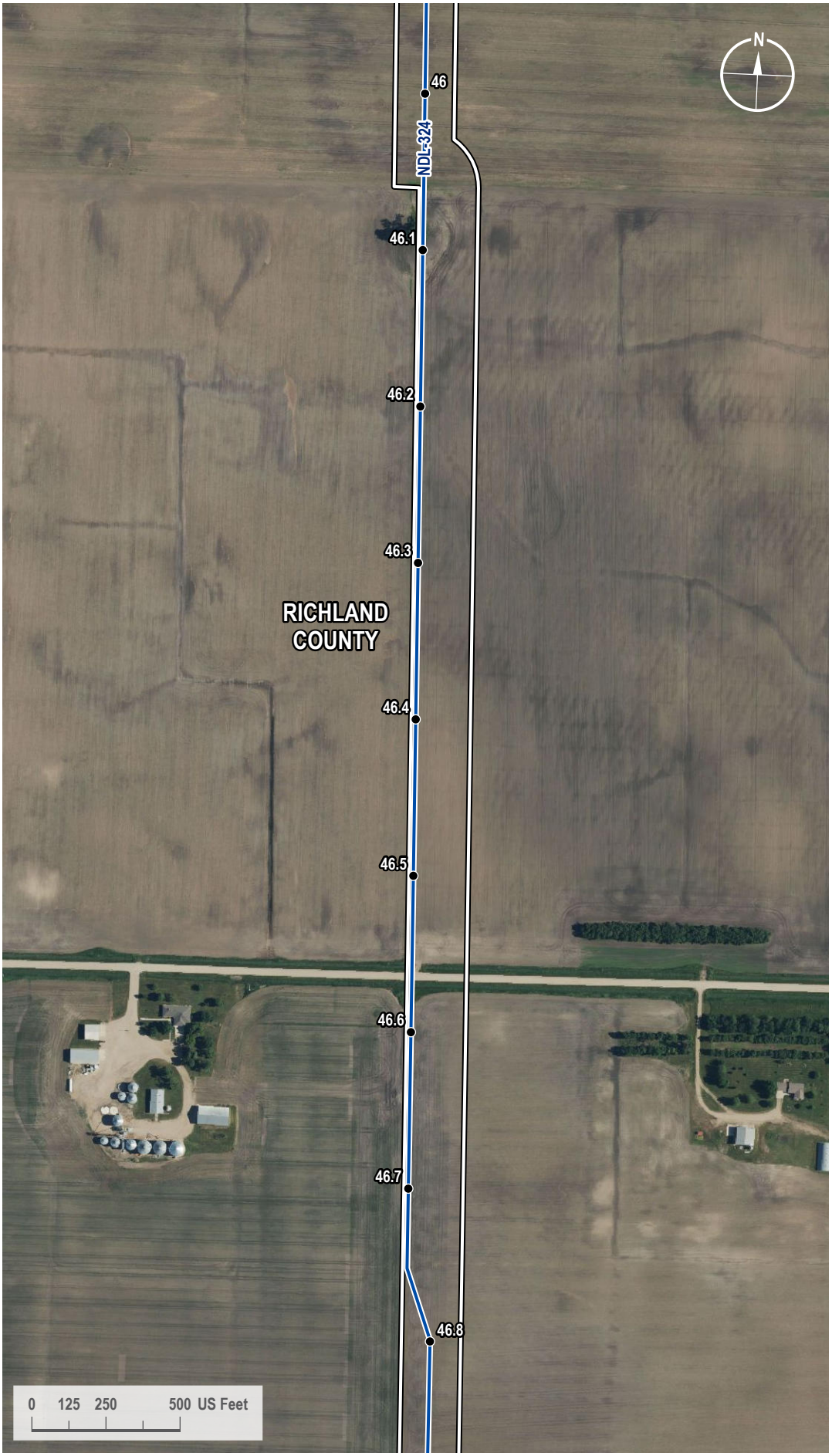

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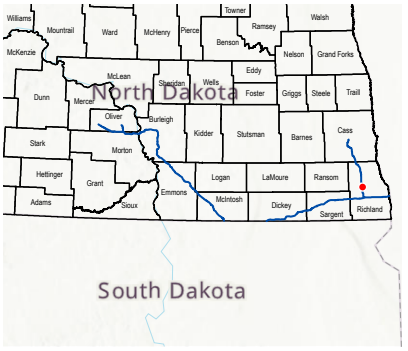

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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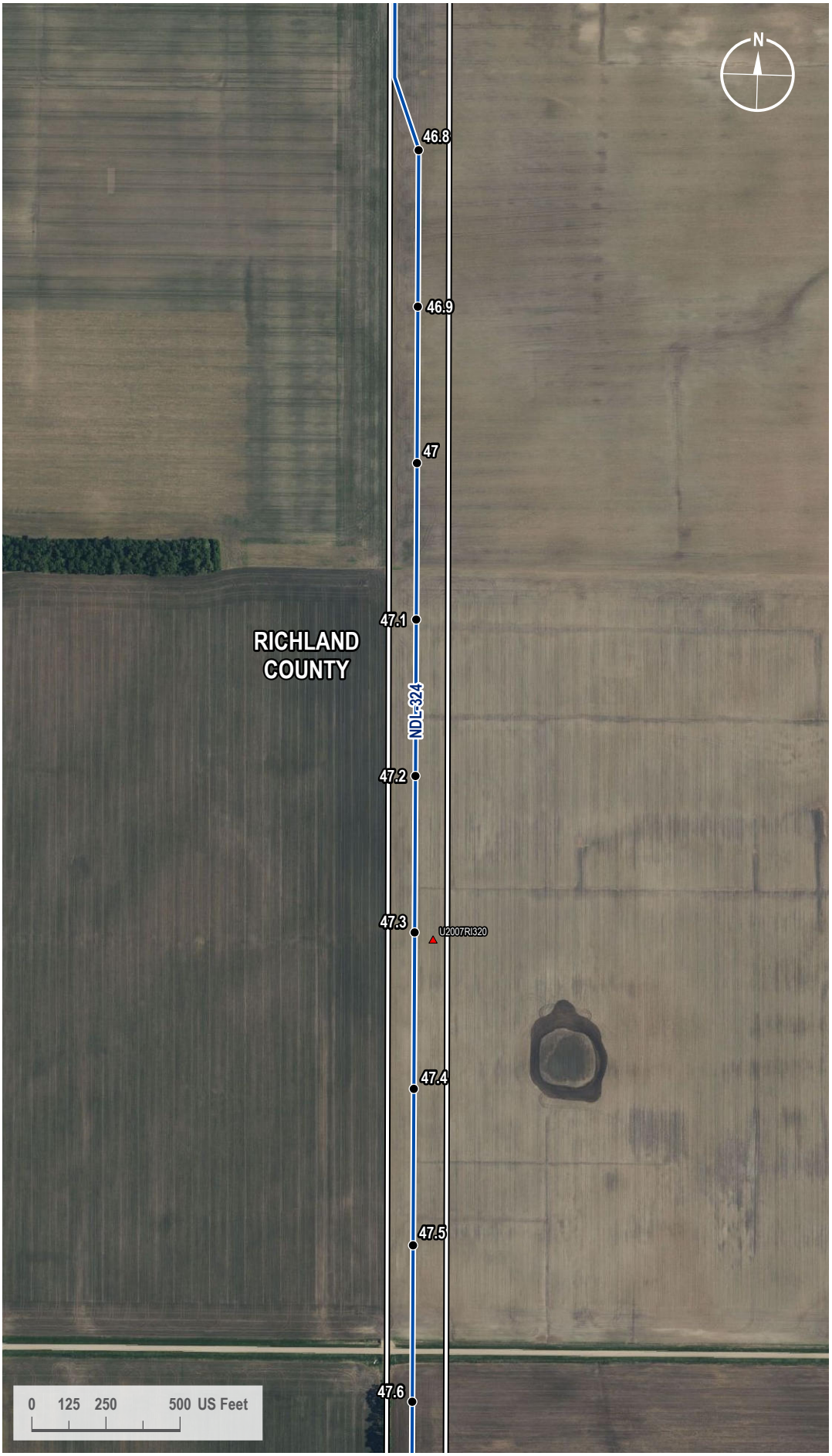

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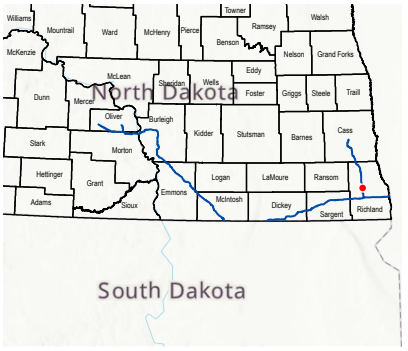

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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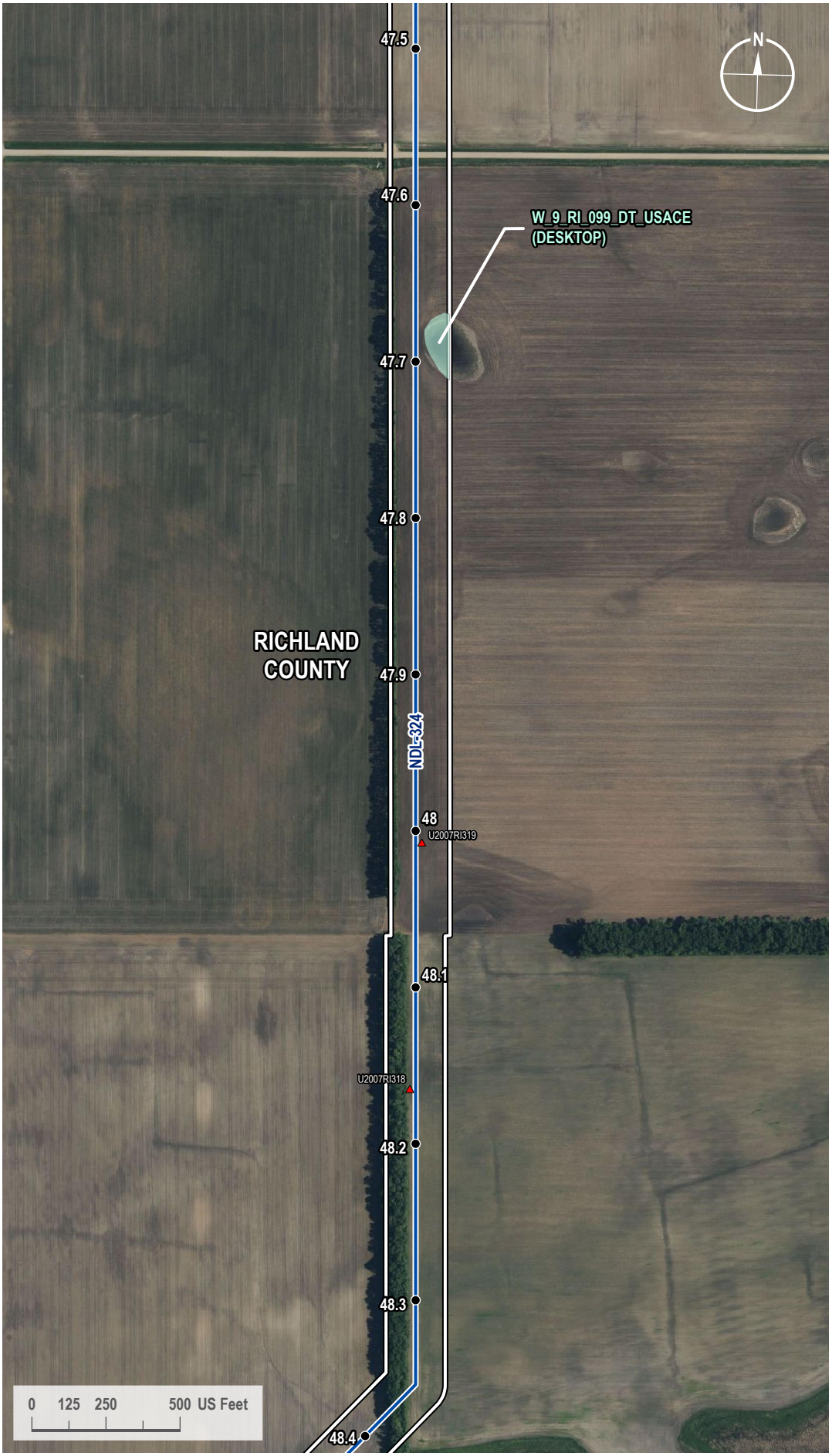

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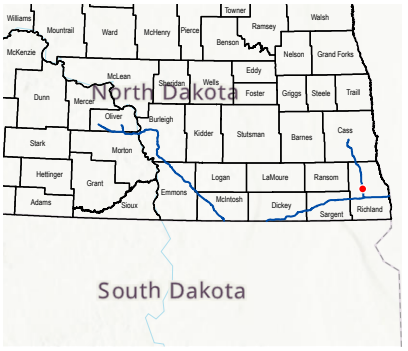

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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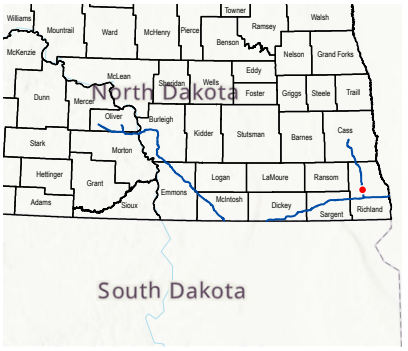

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
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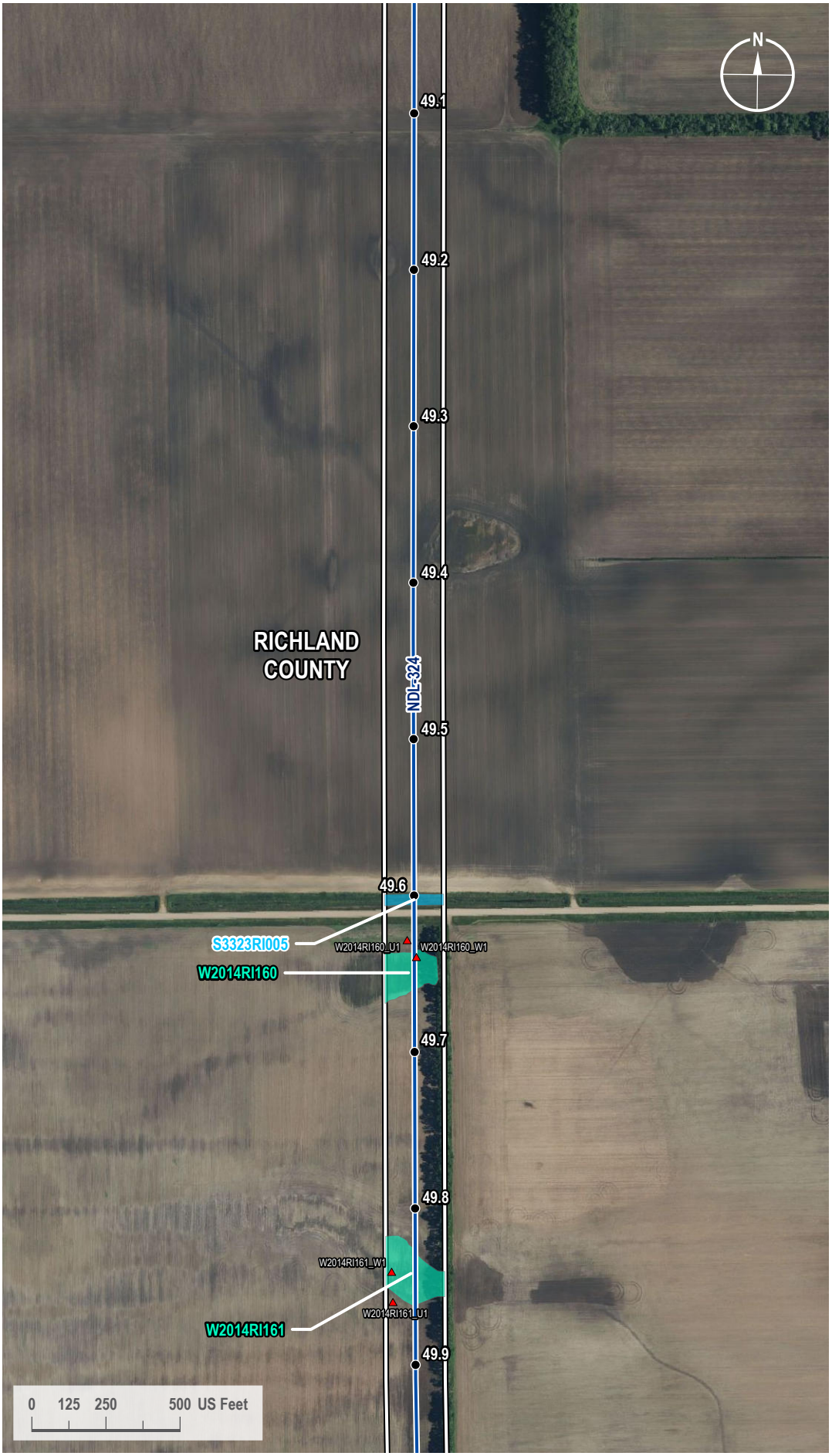

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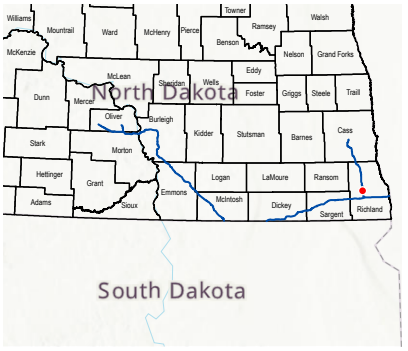

LEGEND

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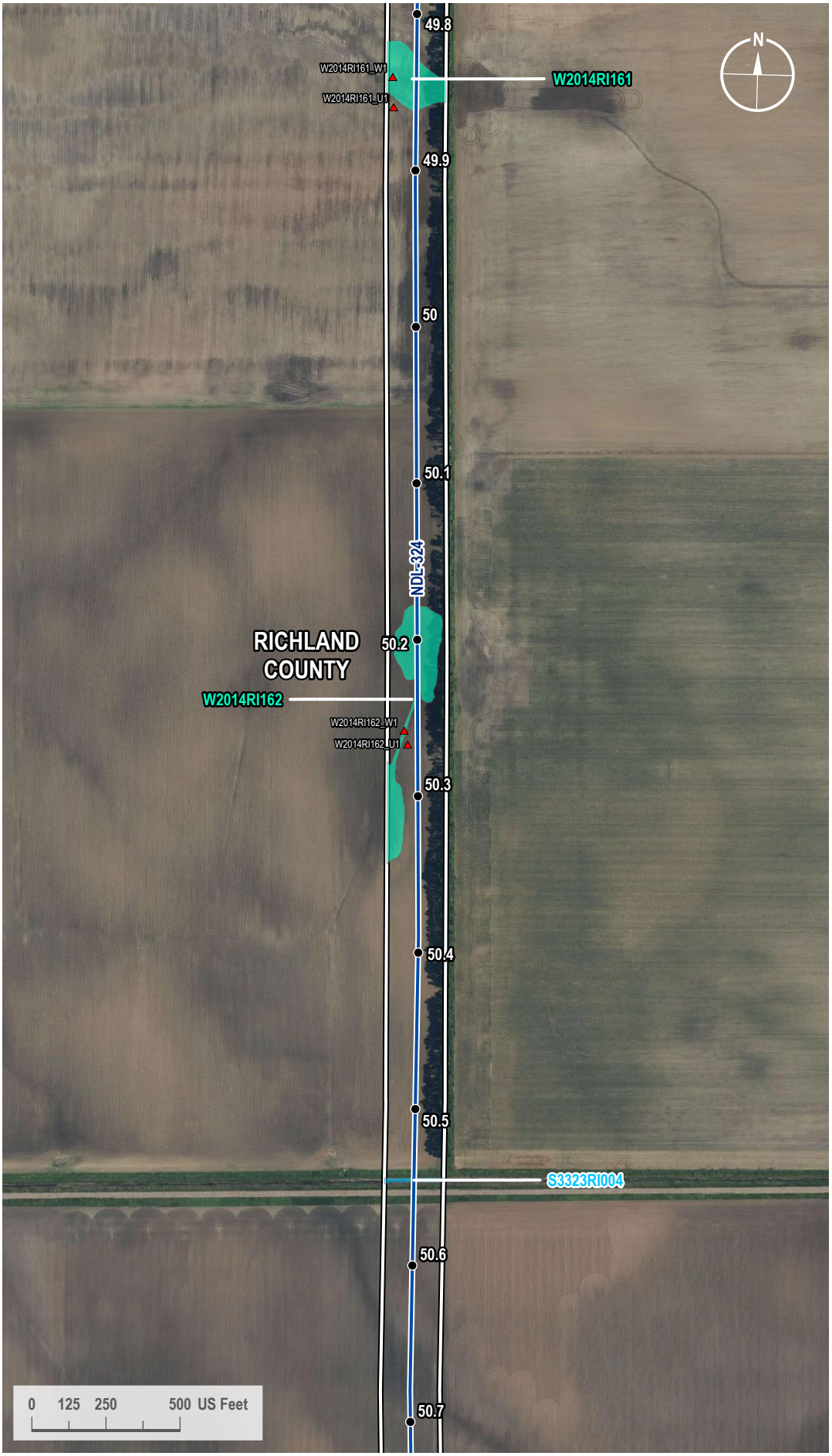

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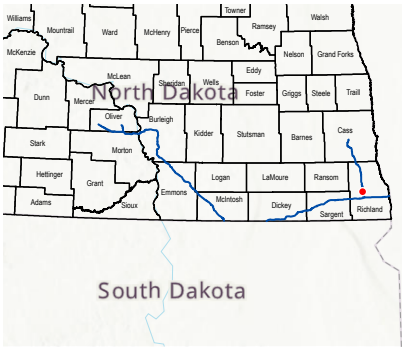

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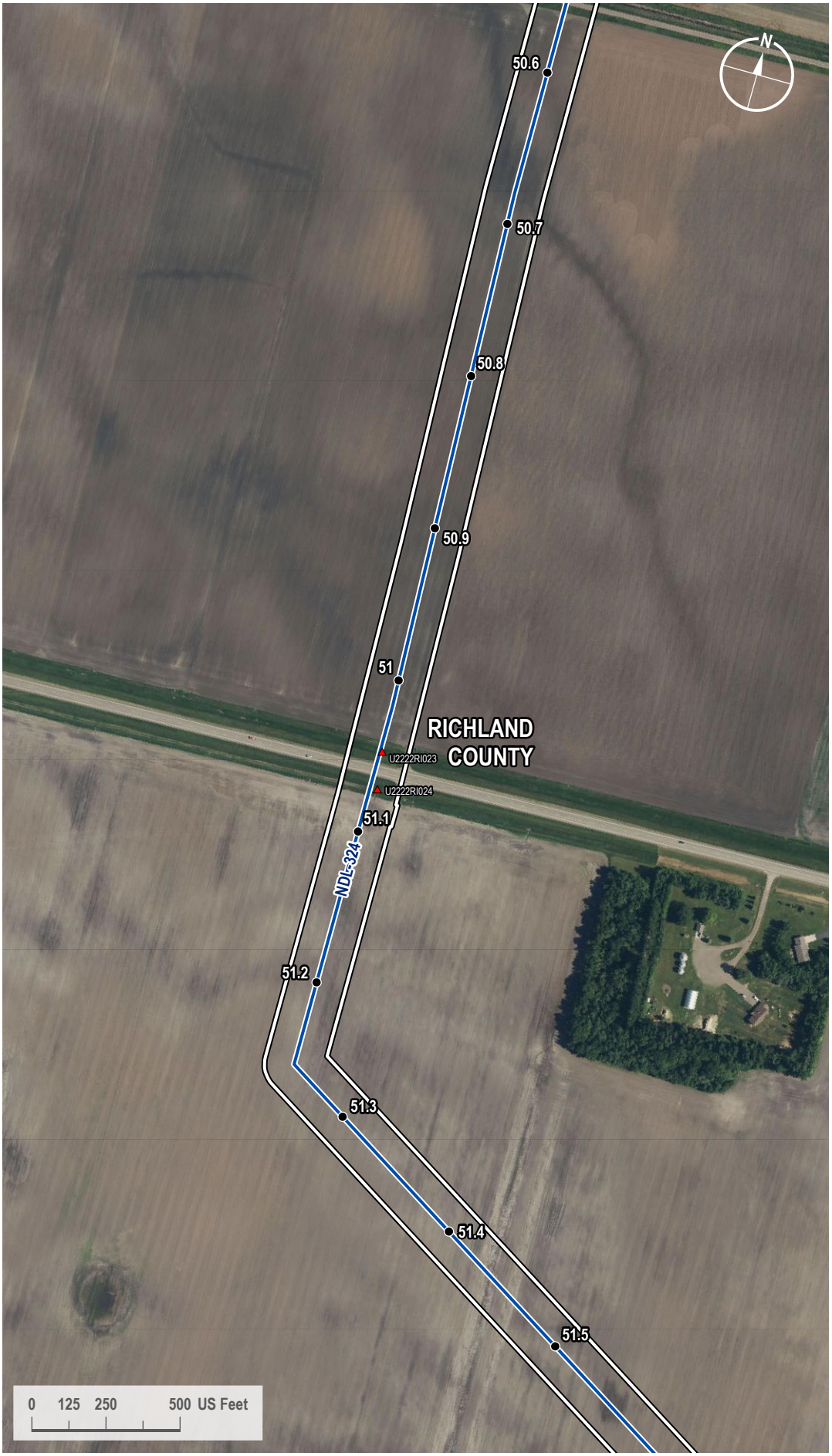

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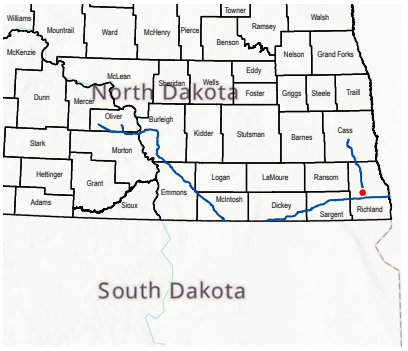

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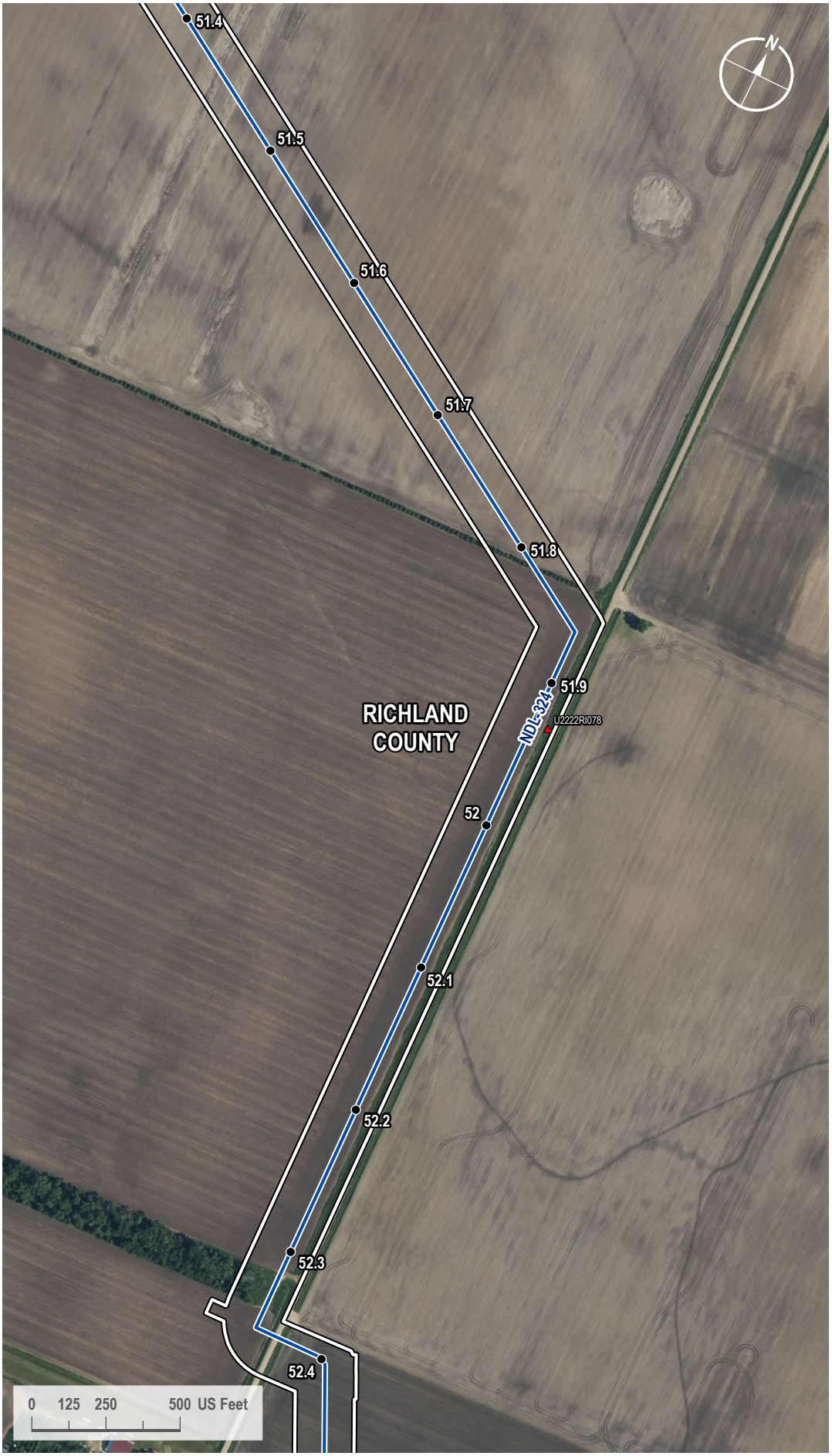

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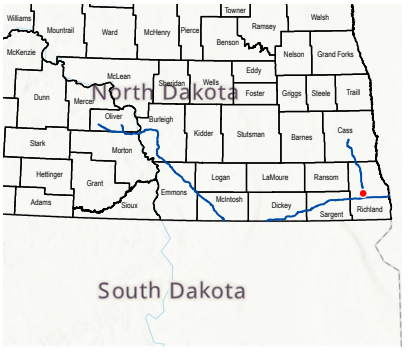

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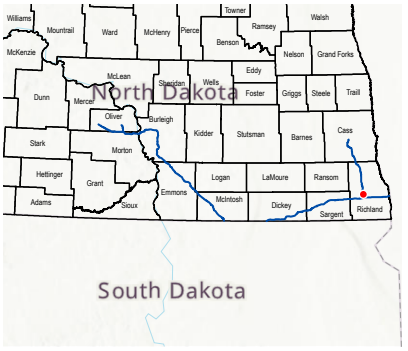

LEGEND

- Milepost
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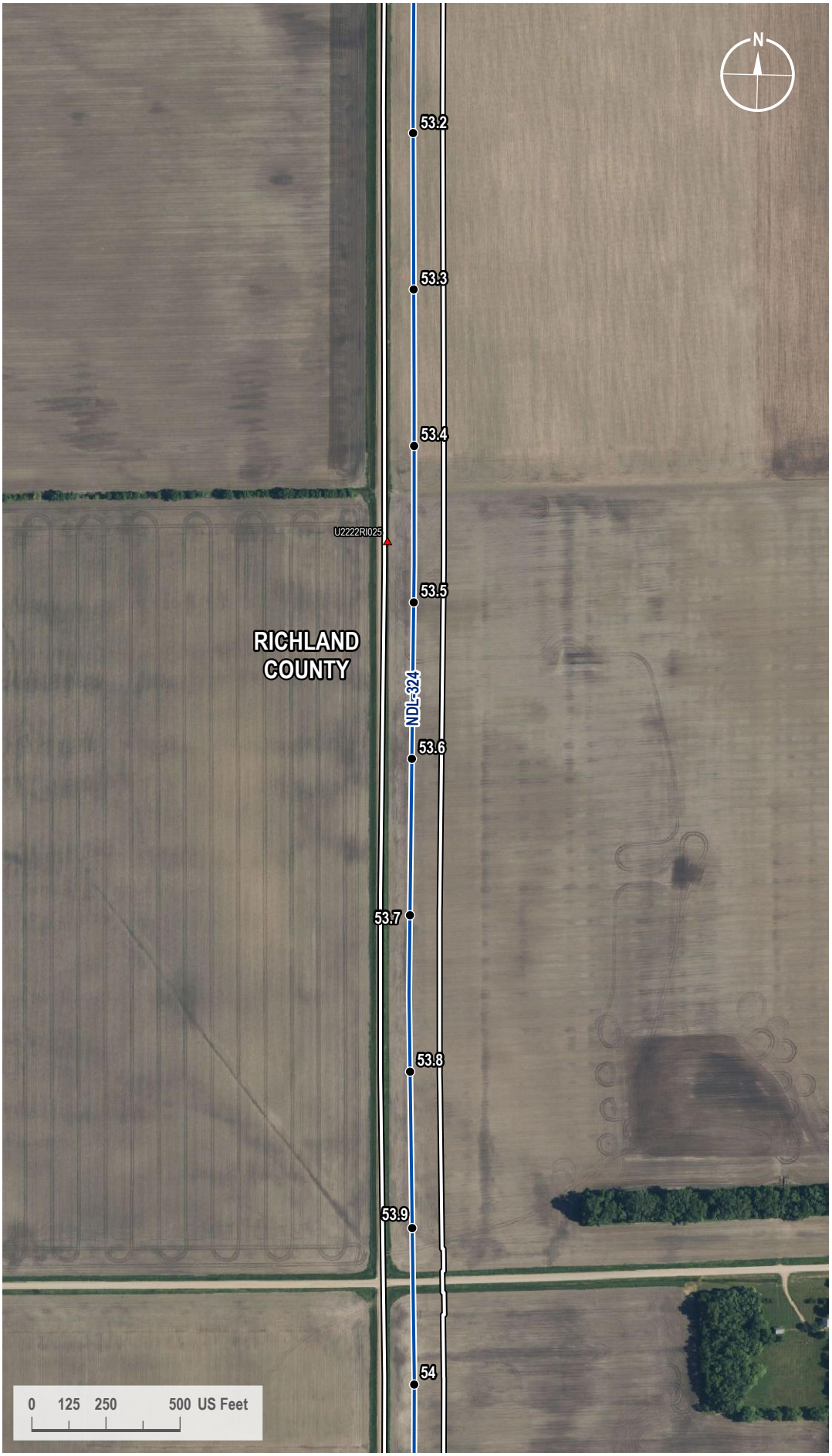

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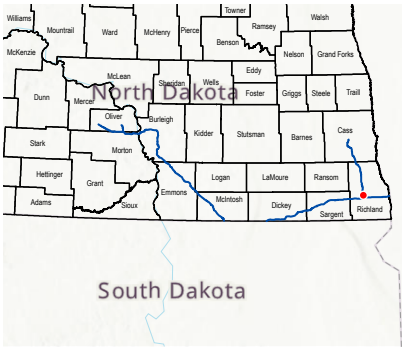

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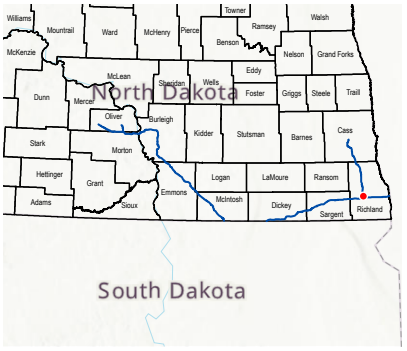

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- Milepost
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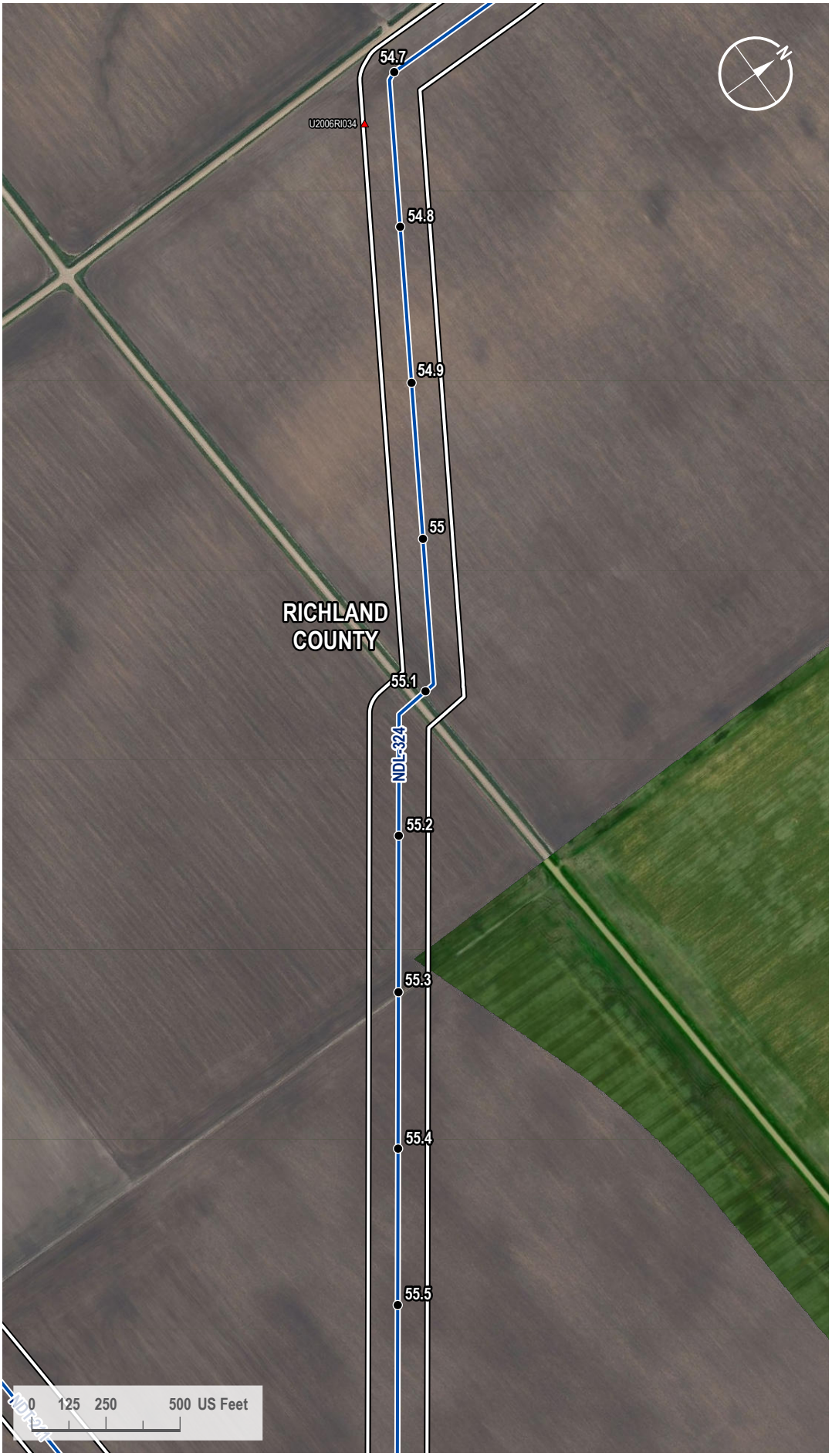

VICINITY MAP



LEGEND

- Milepost
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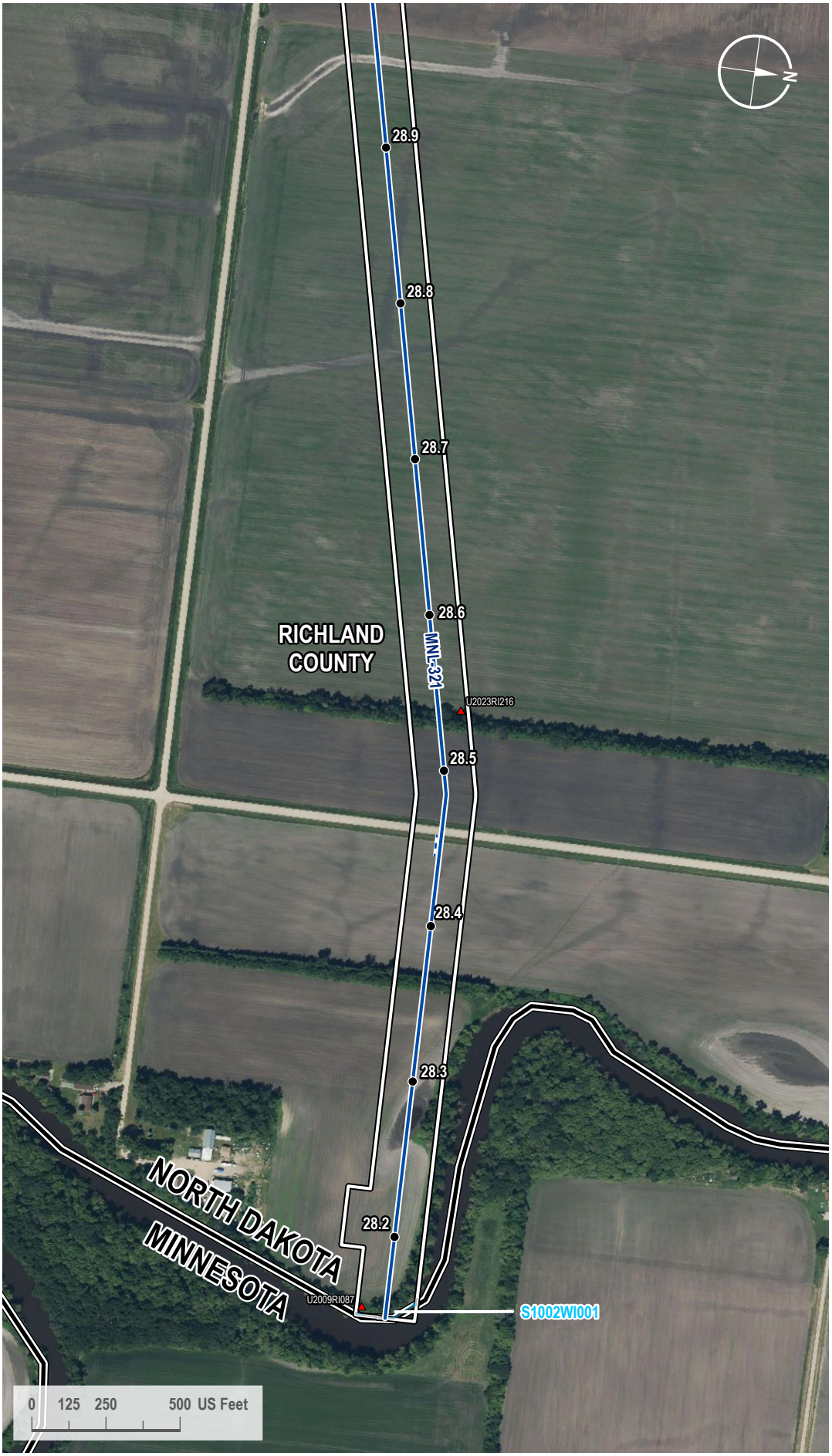
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- State Line
- County Line
- 200-foot Siting Corridor
- Stream (Surveyed)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
72 72 of 433	1001-06-027 Revision 0

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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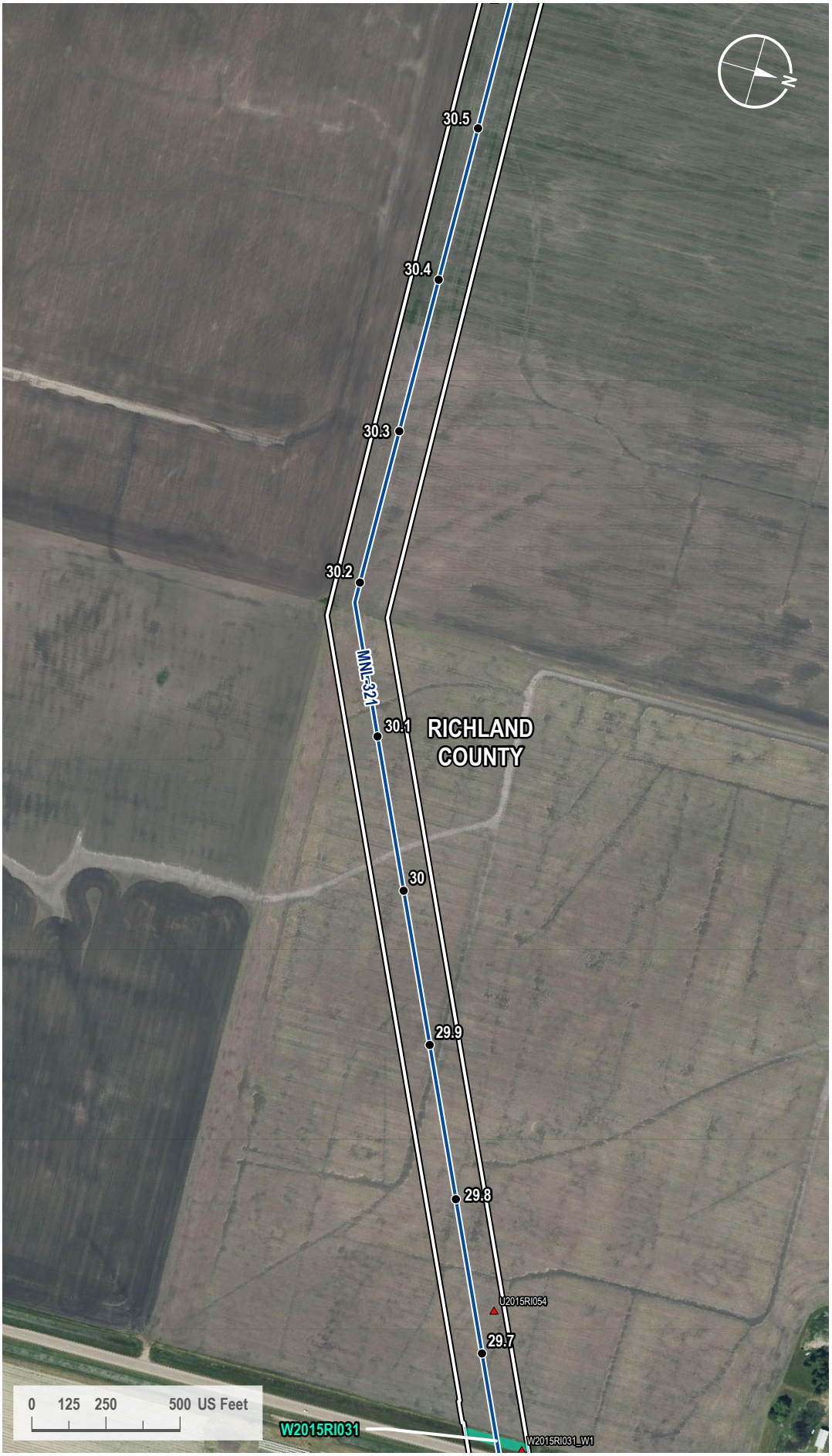

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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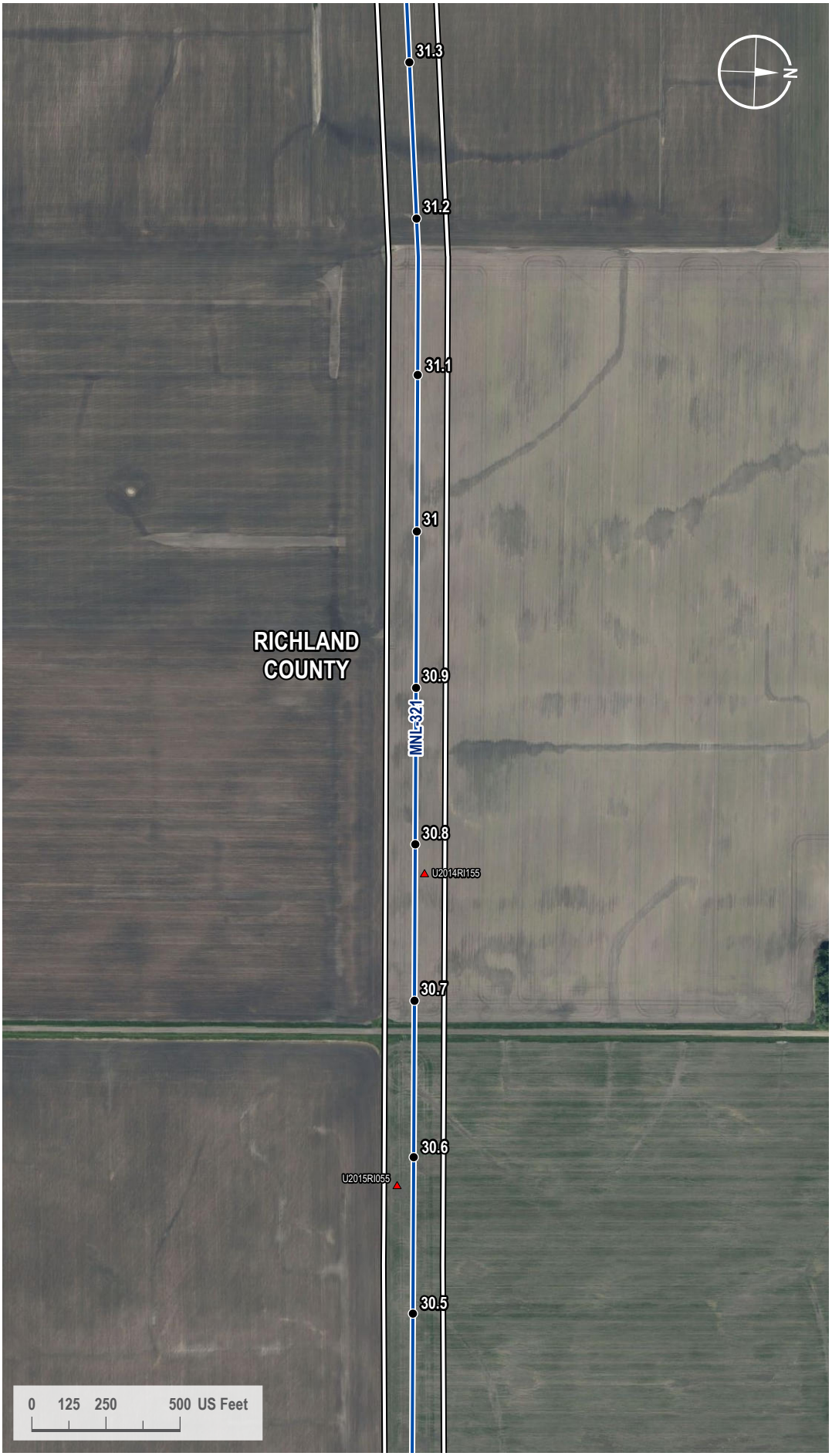

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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75 75 of 433	1001-06-027 Revision 0

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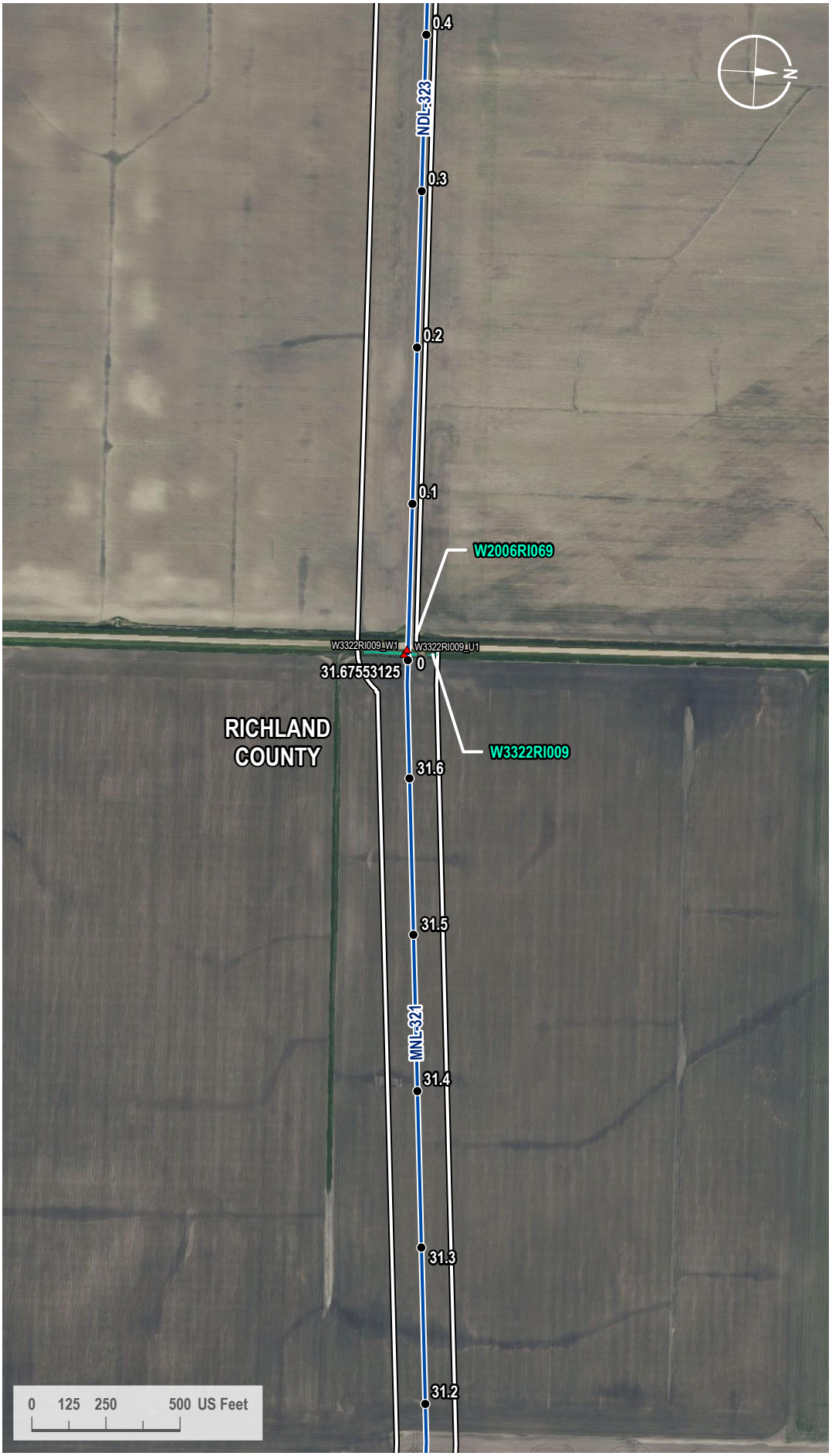

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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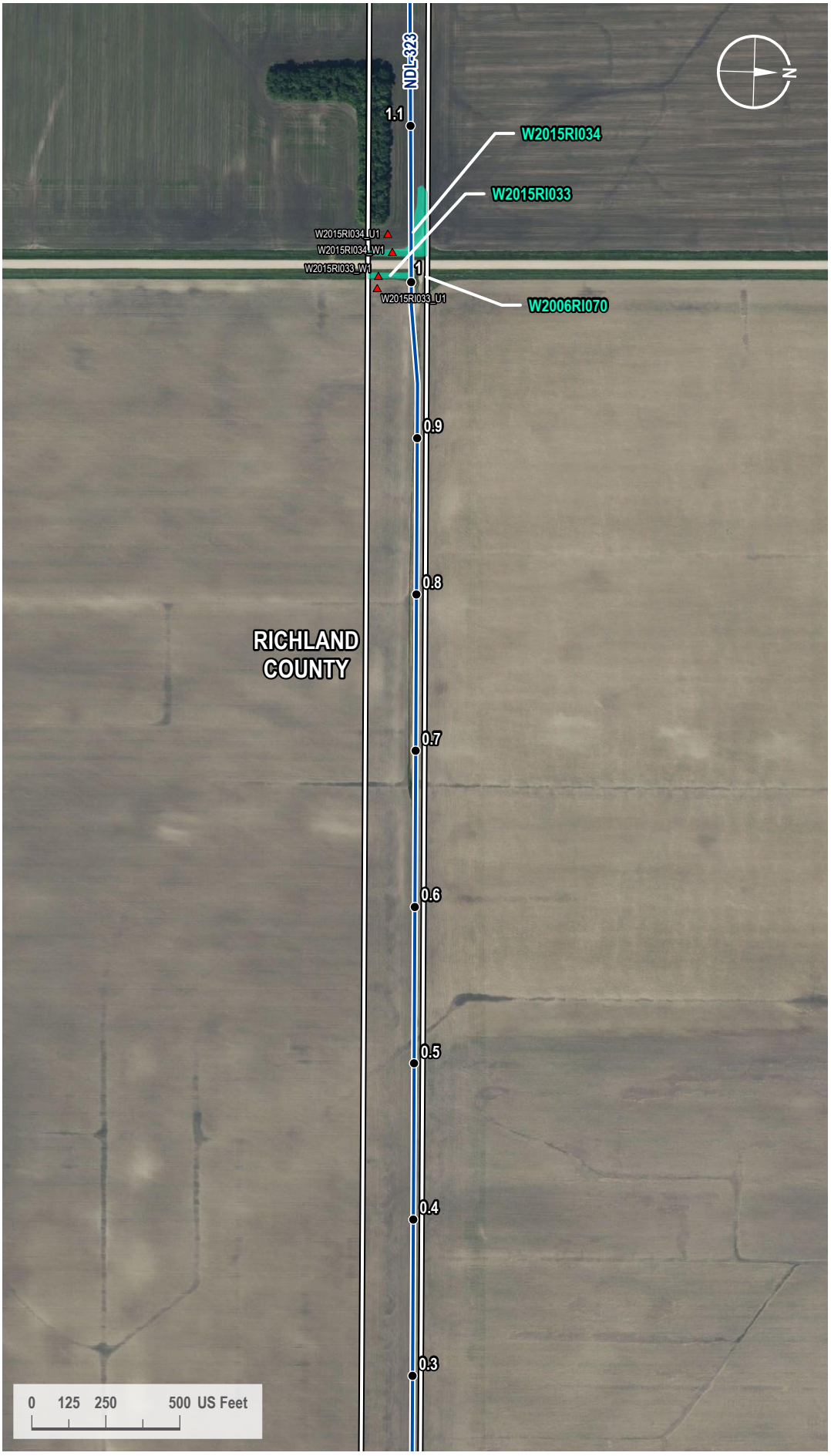

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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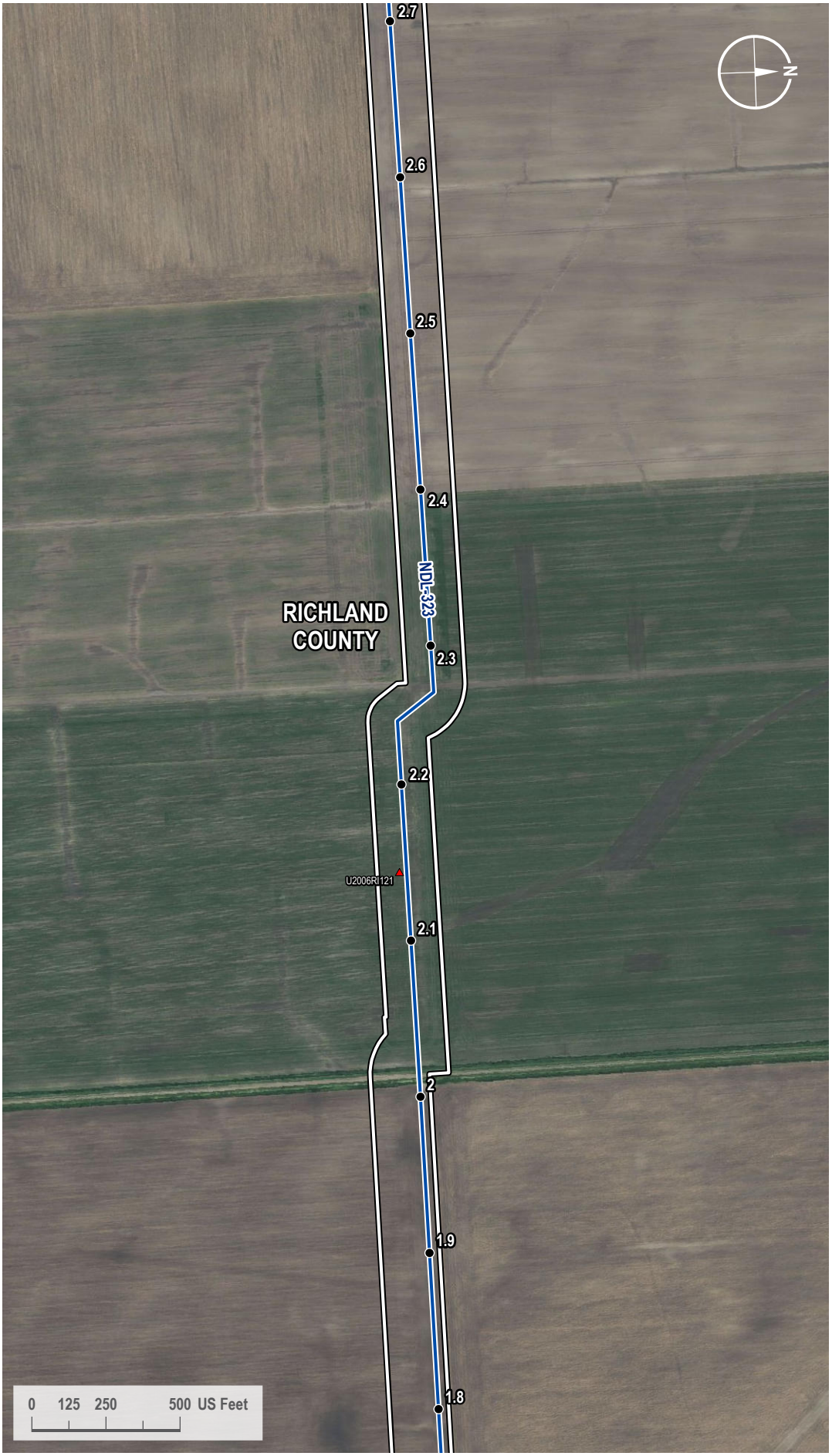

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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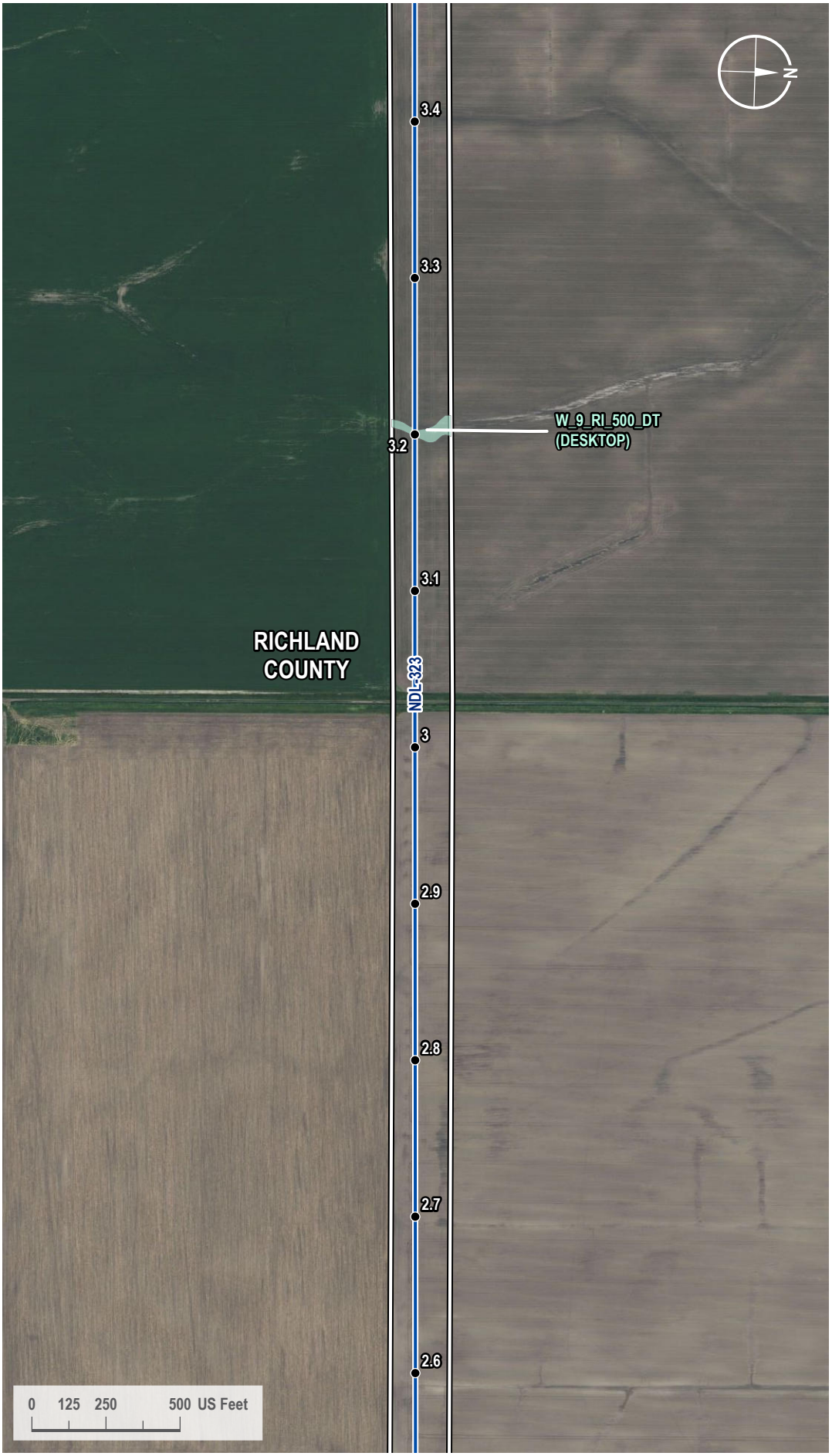

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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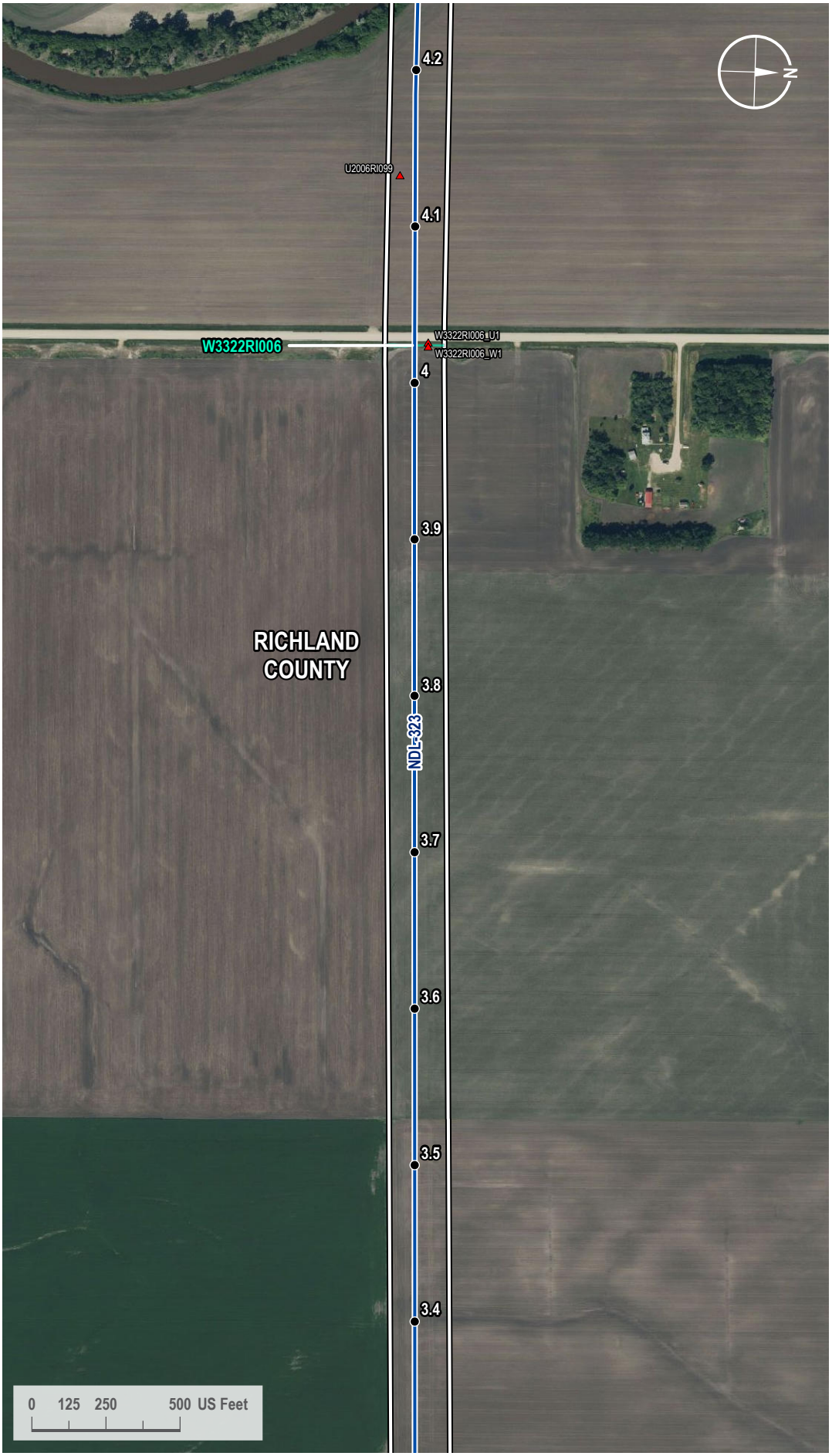

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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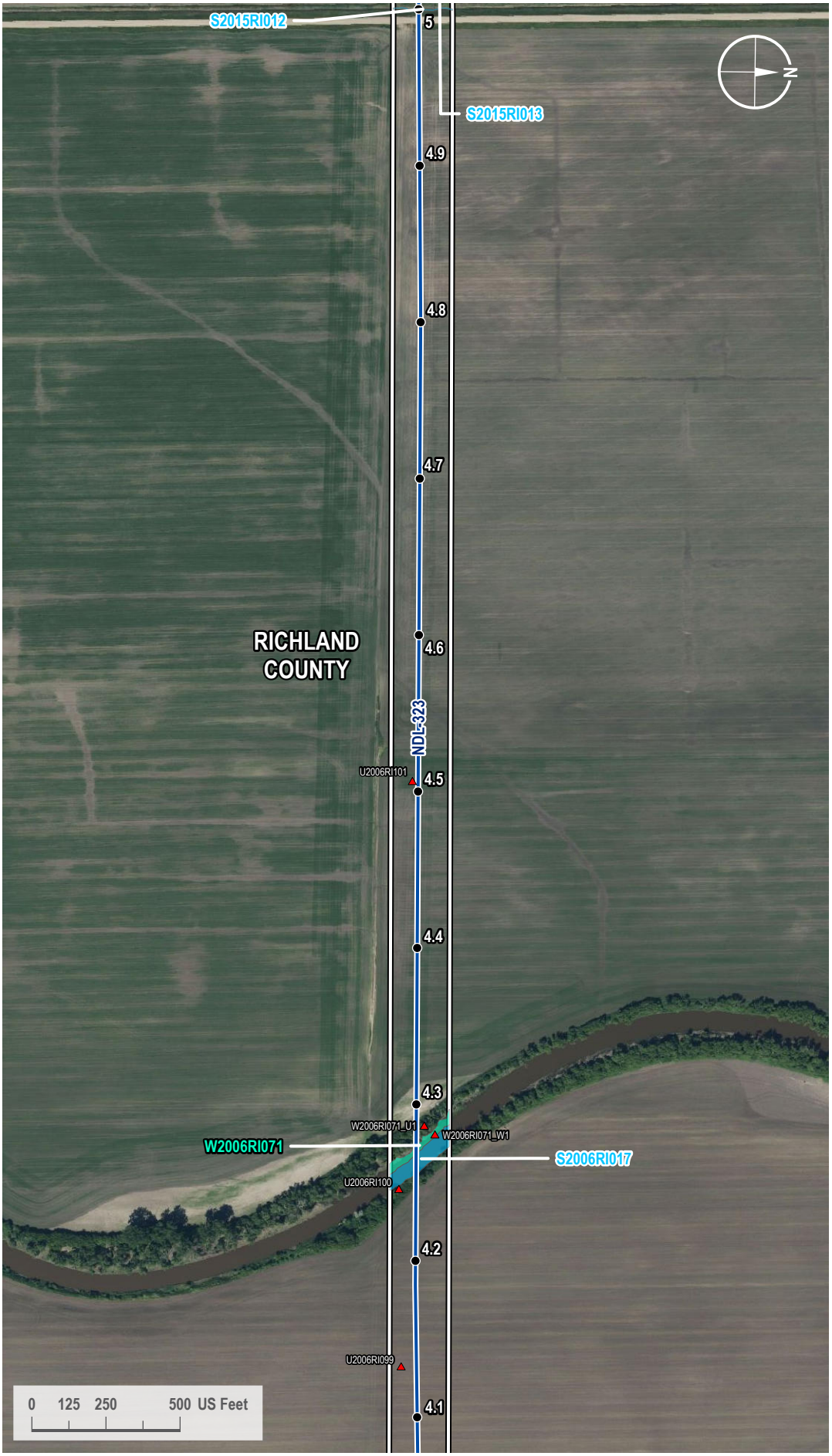

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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82 82 of 433	1001-06-027 Revision 0

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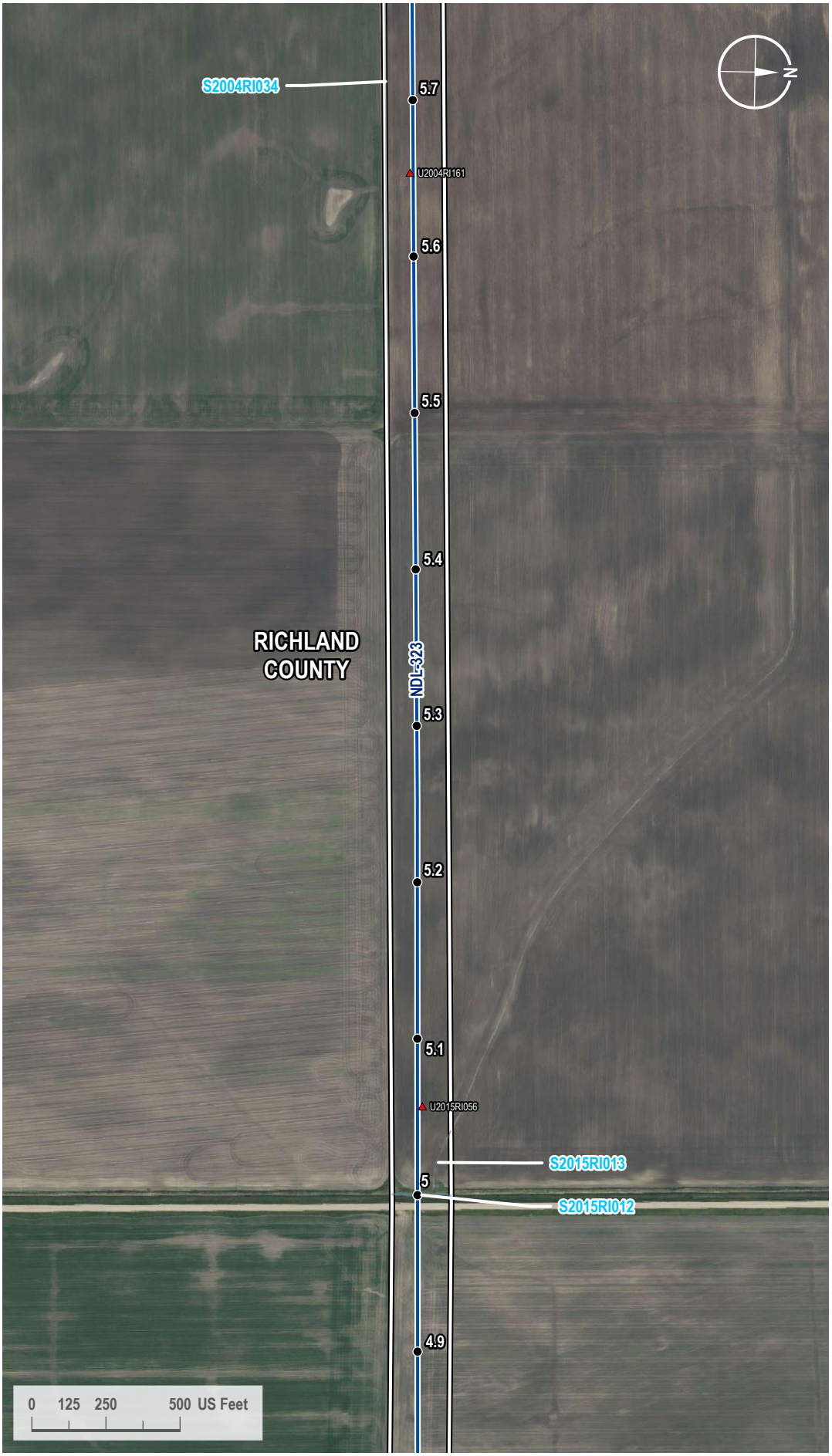

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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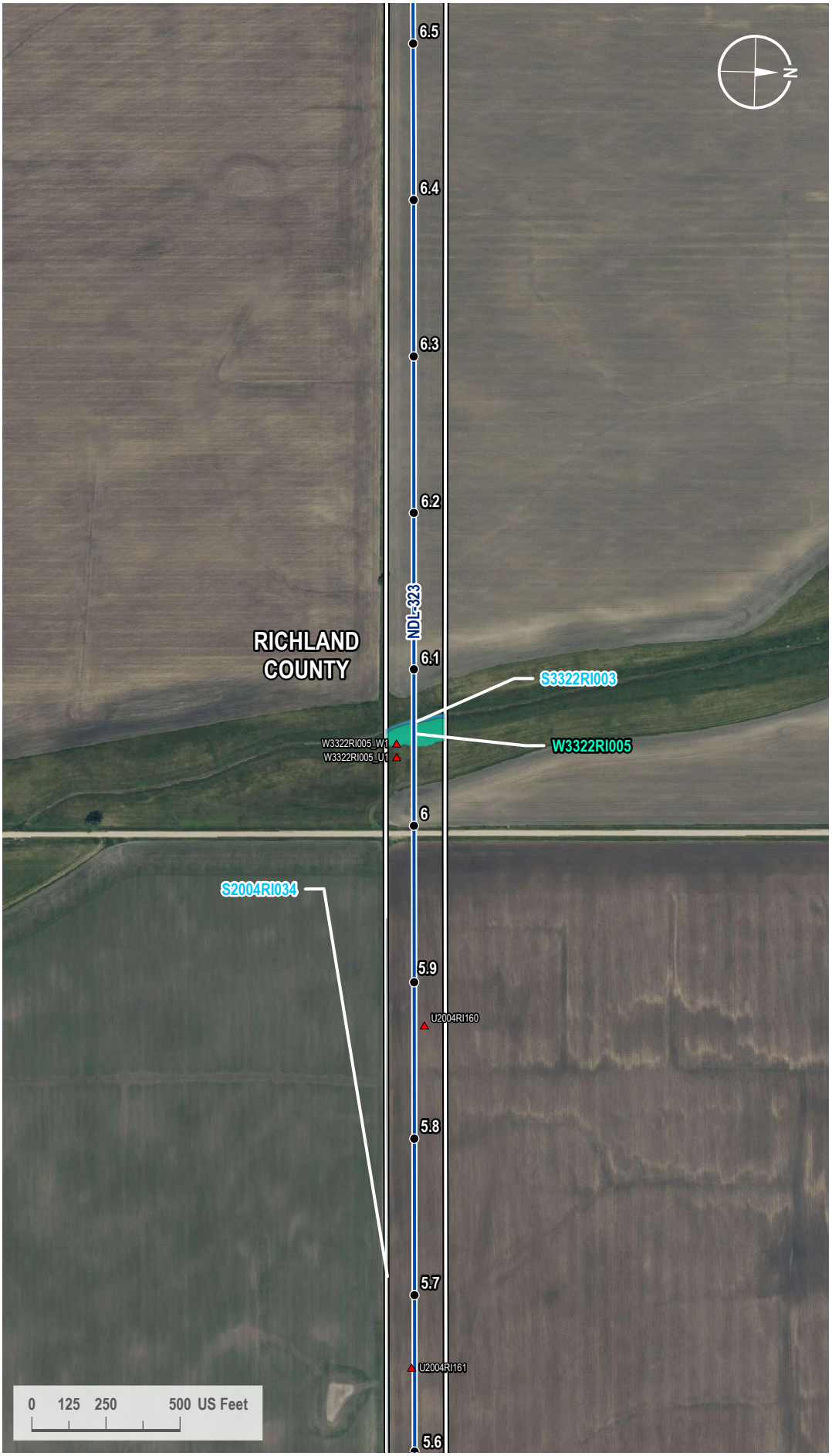

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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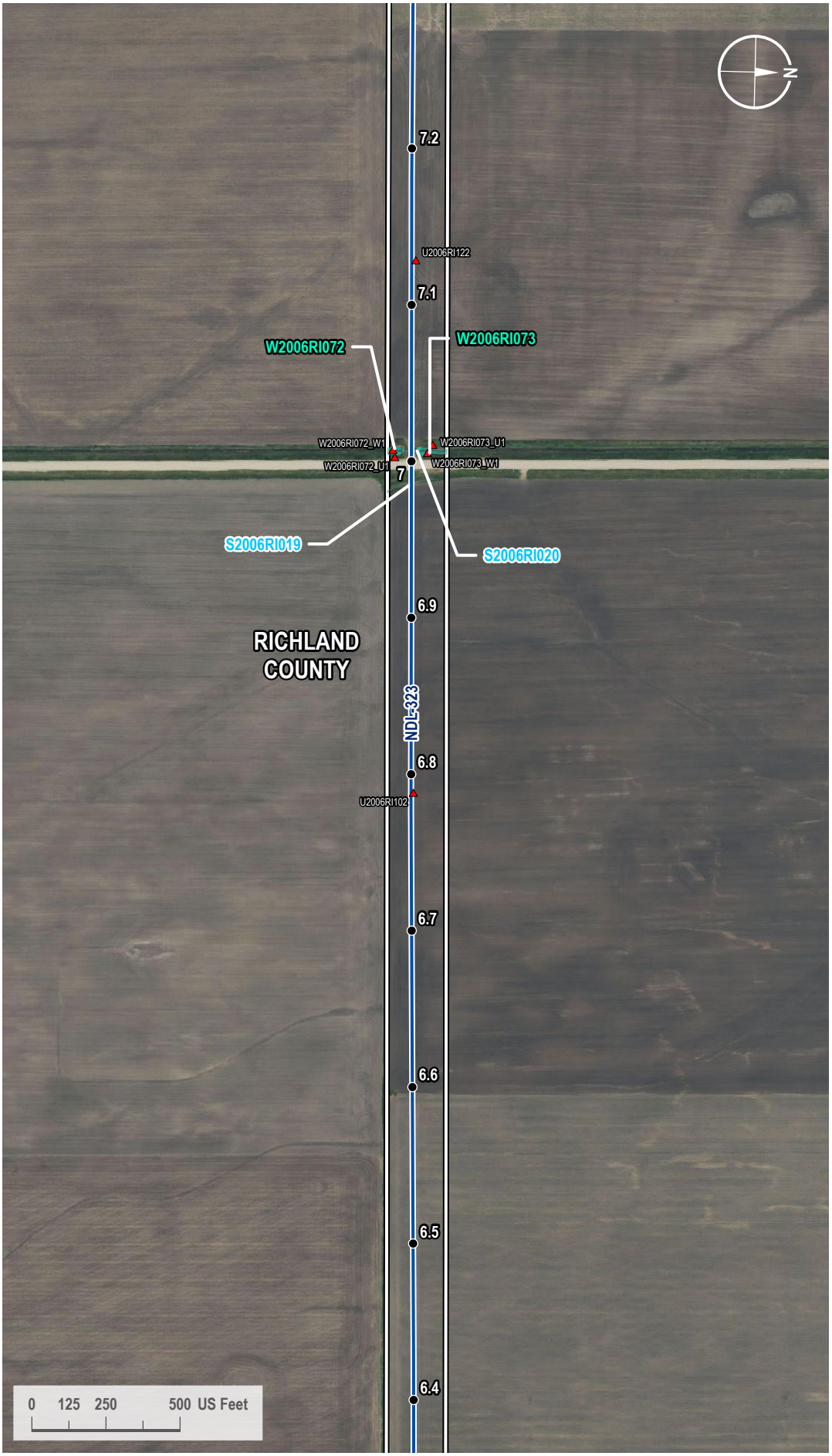

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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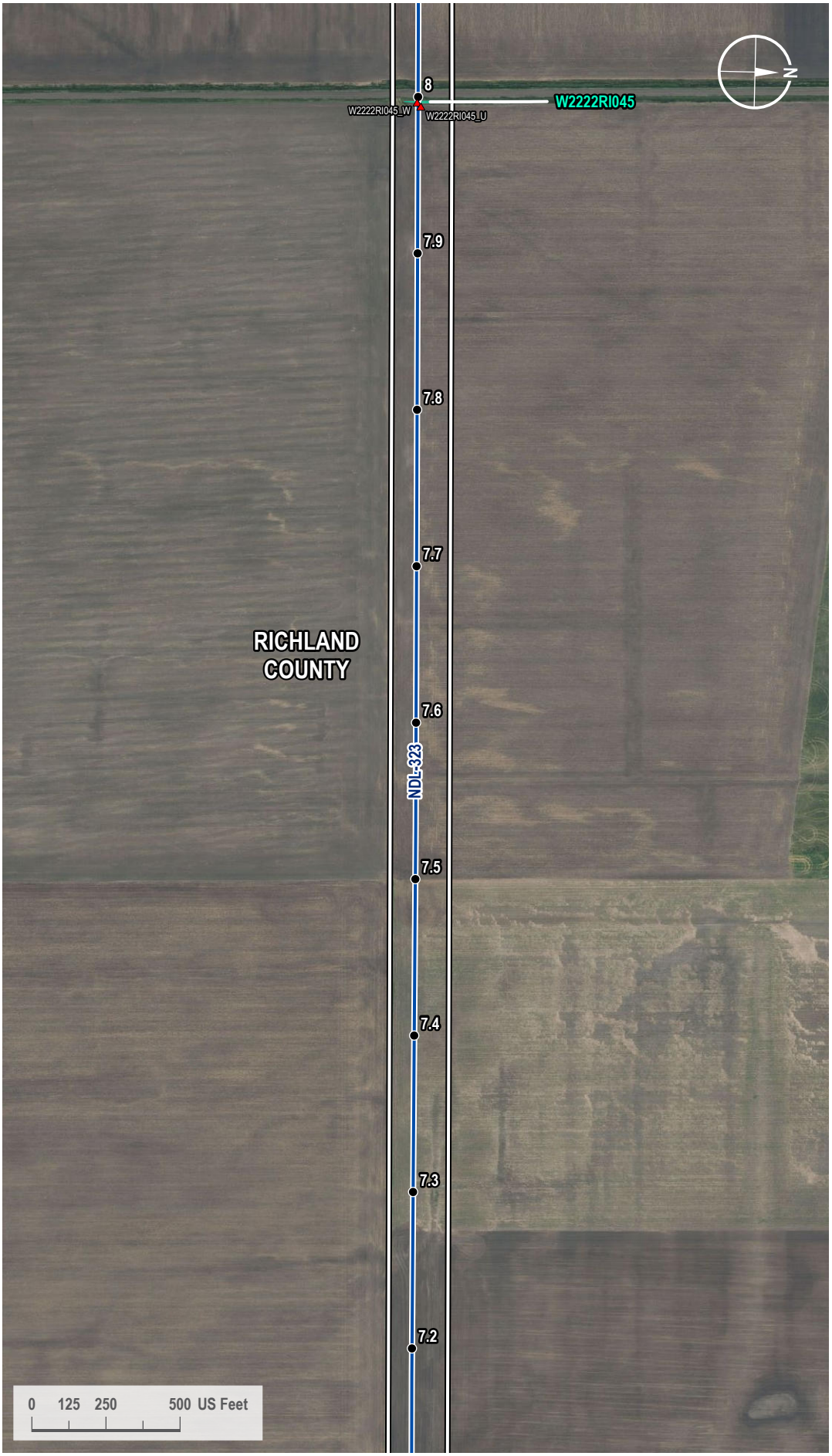

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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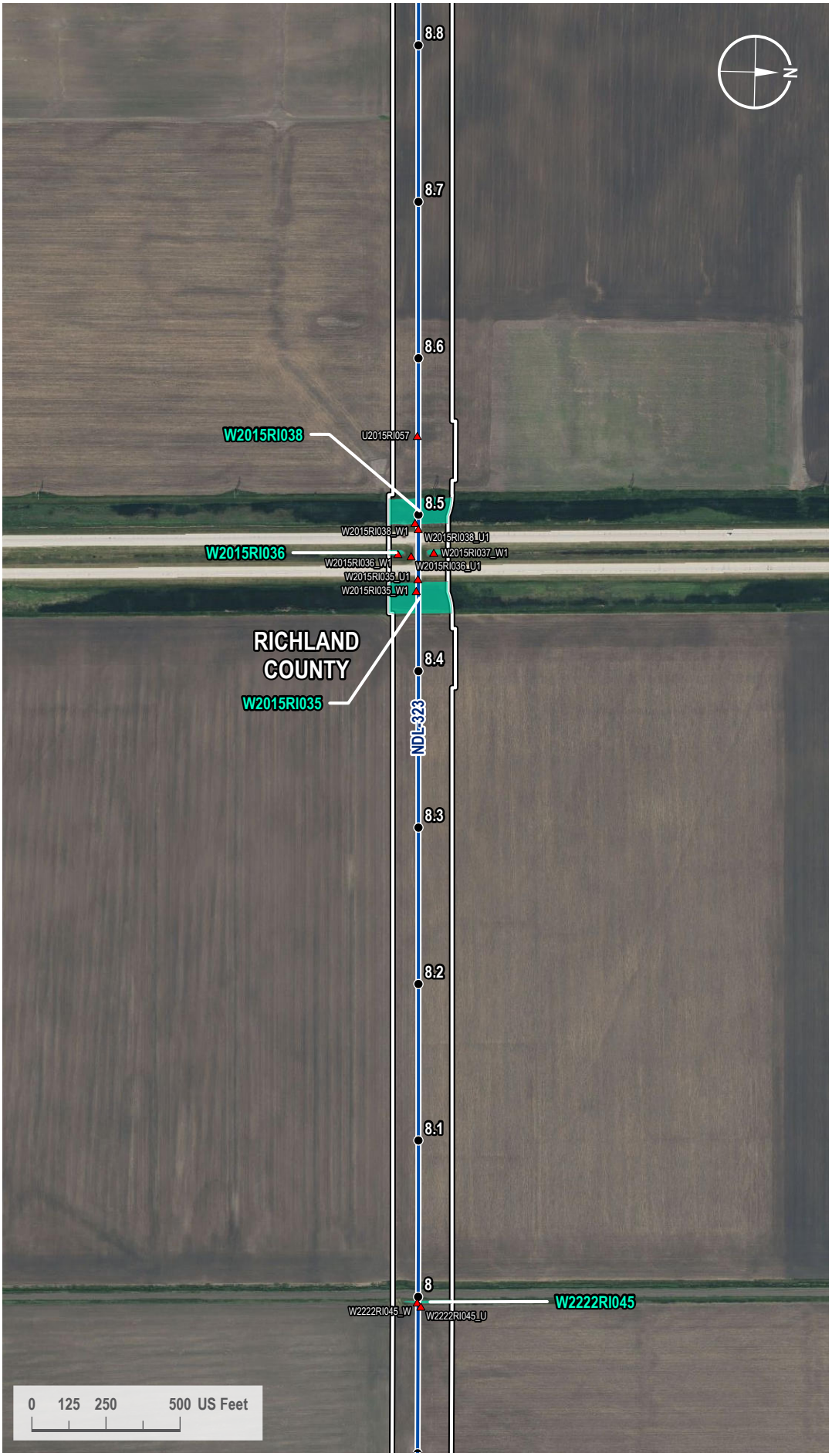

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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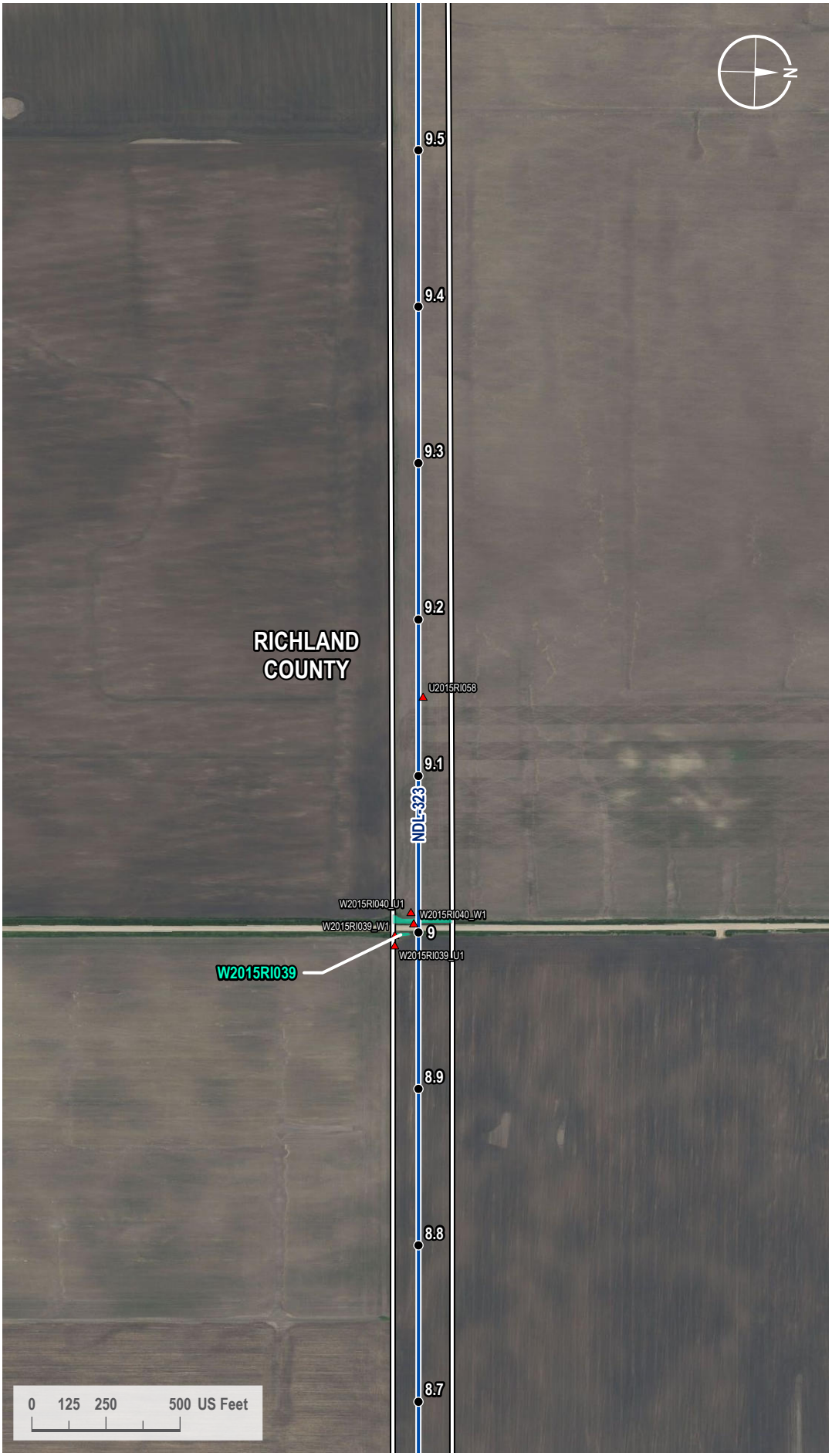

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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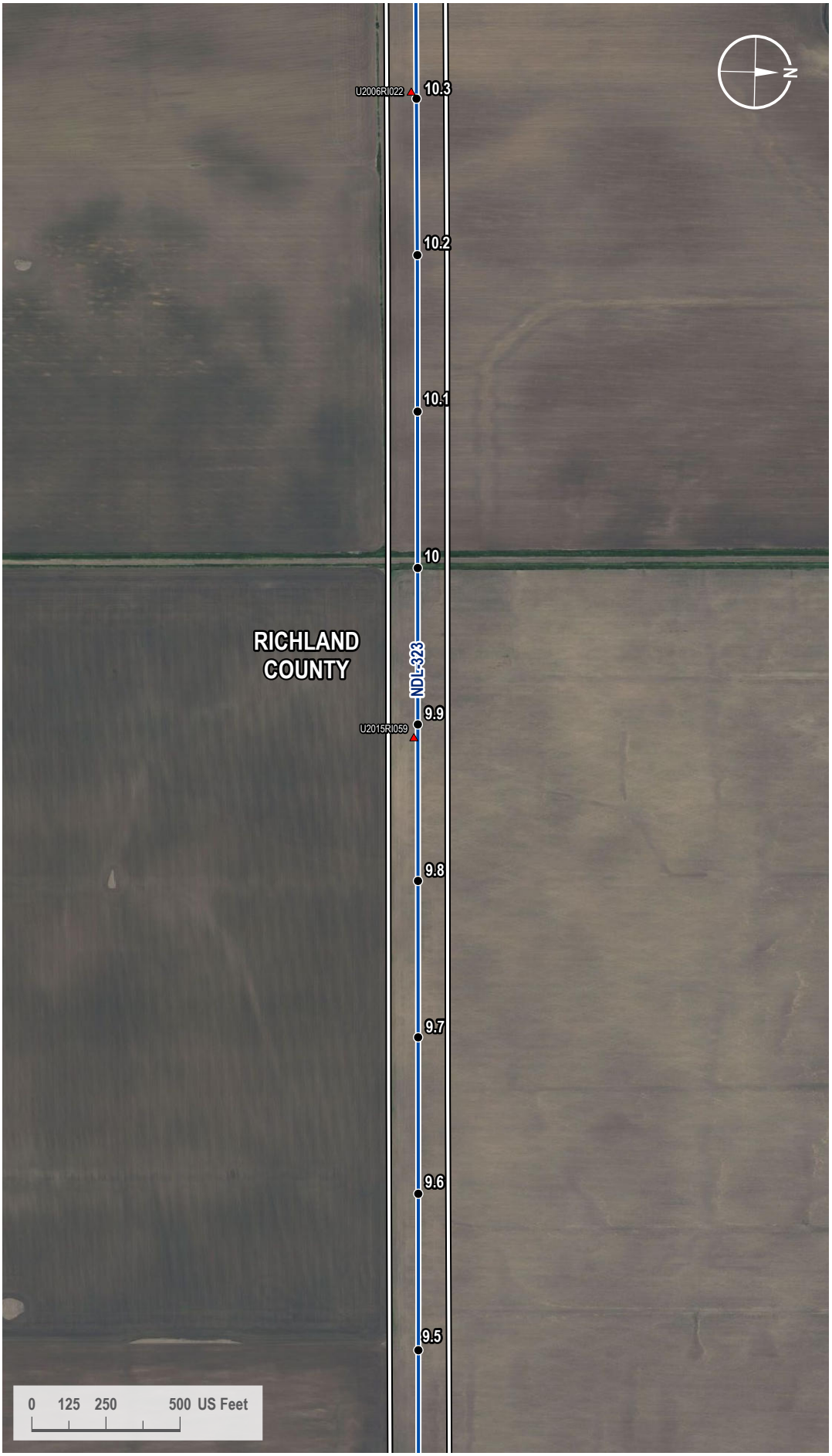

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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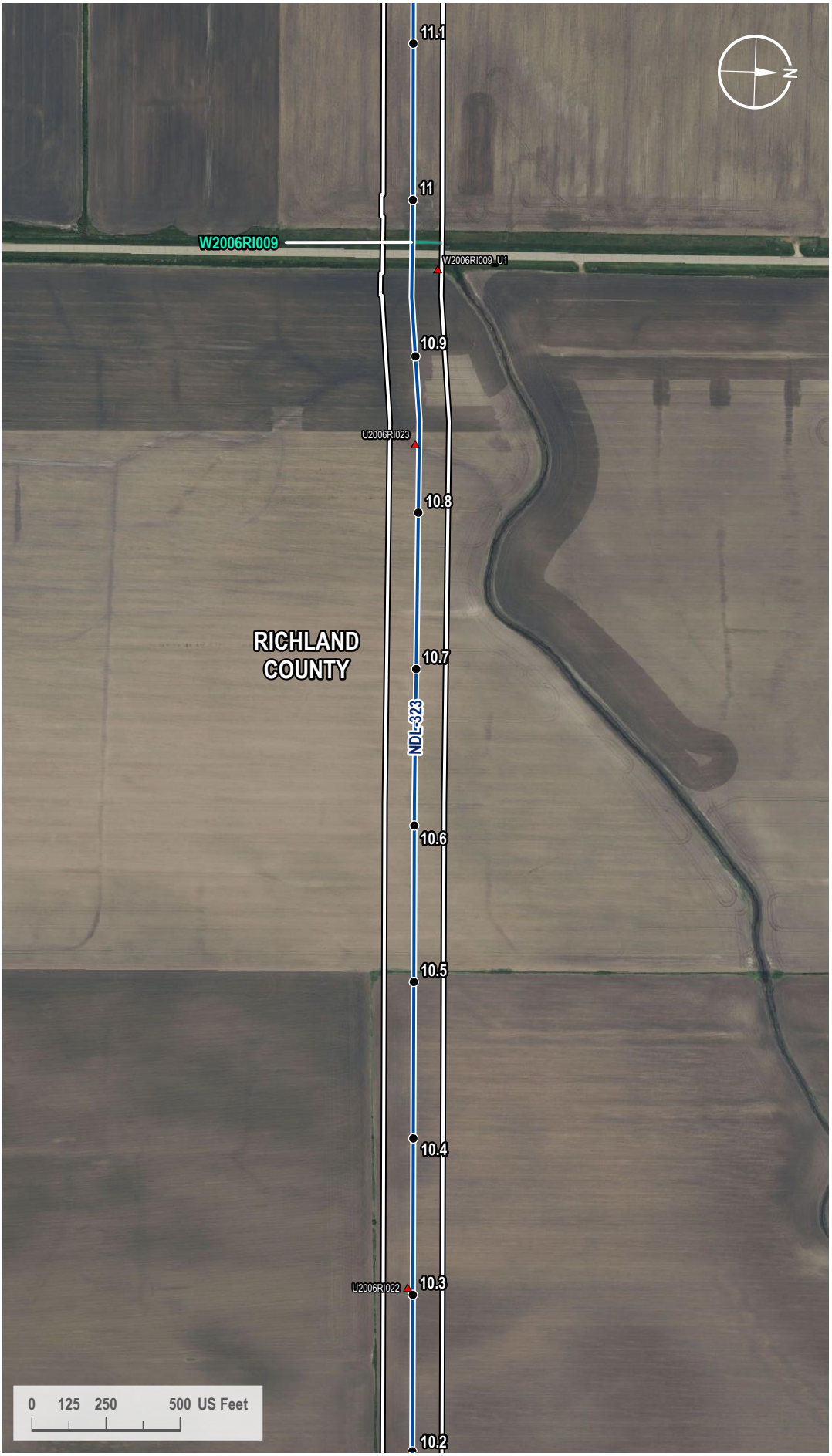

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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Figure Number:
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Sheet:	**Drawing Number:**
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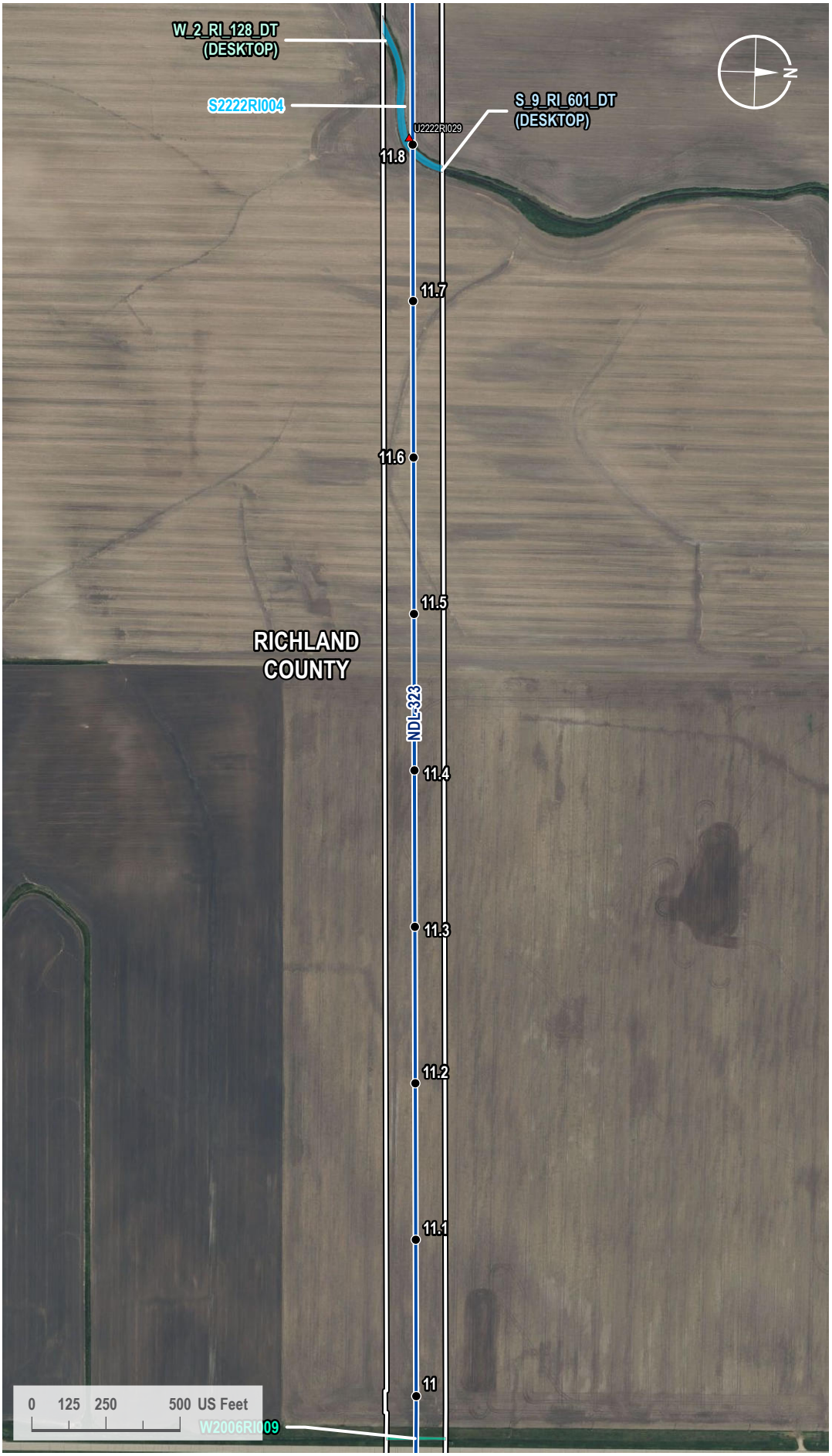

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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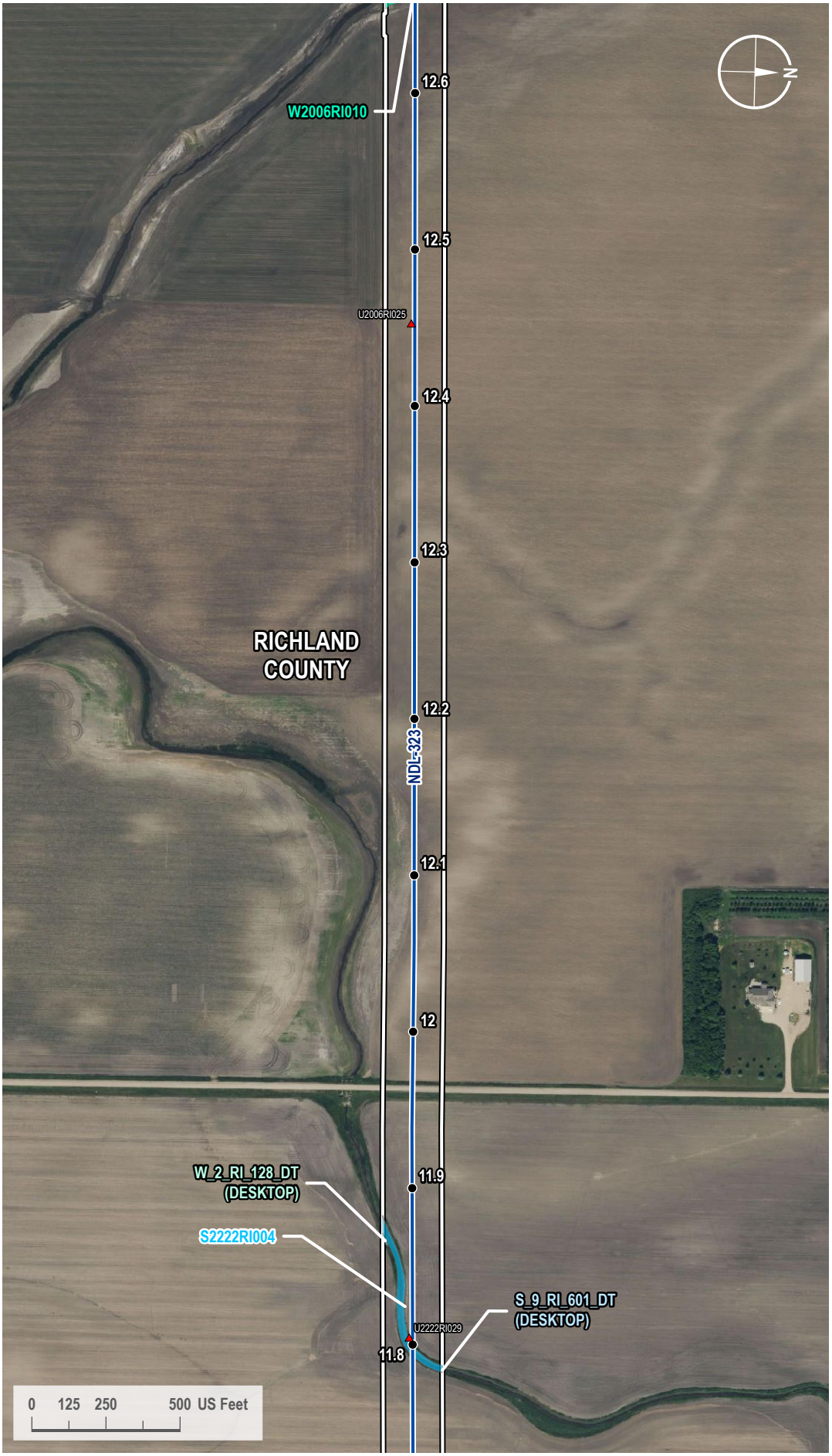

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
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- Stream (Surveyed)
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VICINITY MAP



LEGEND

- Milepost
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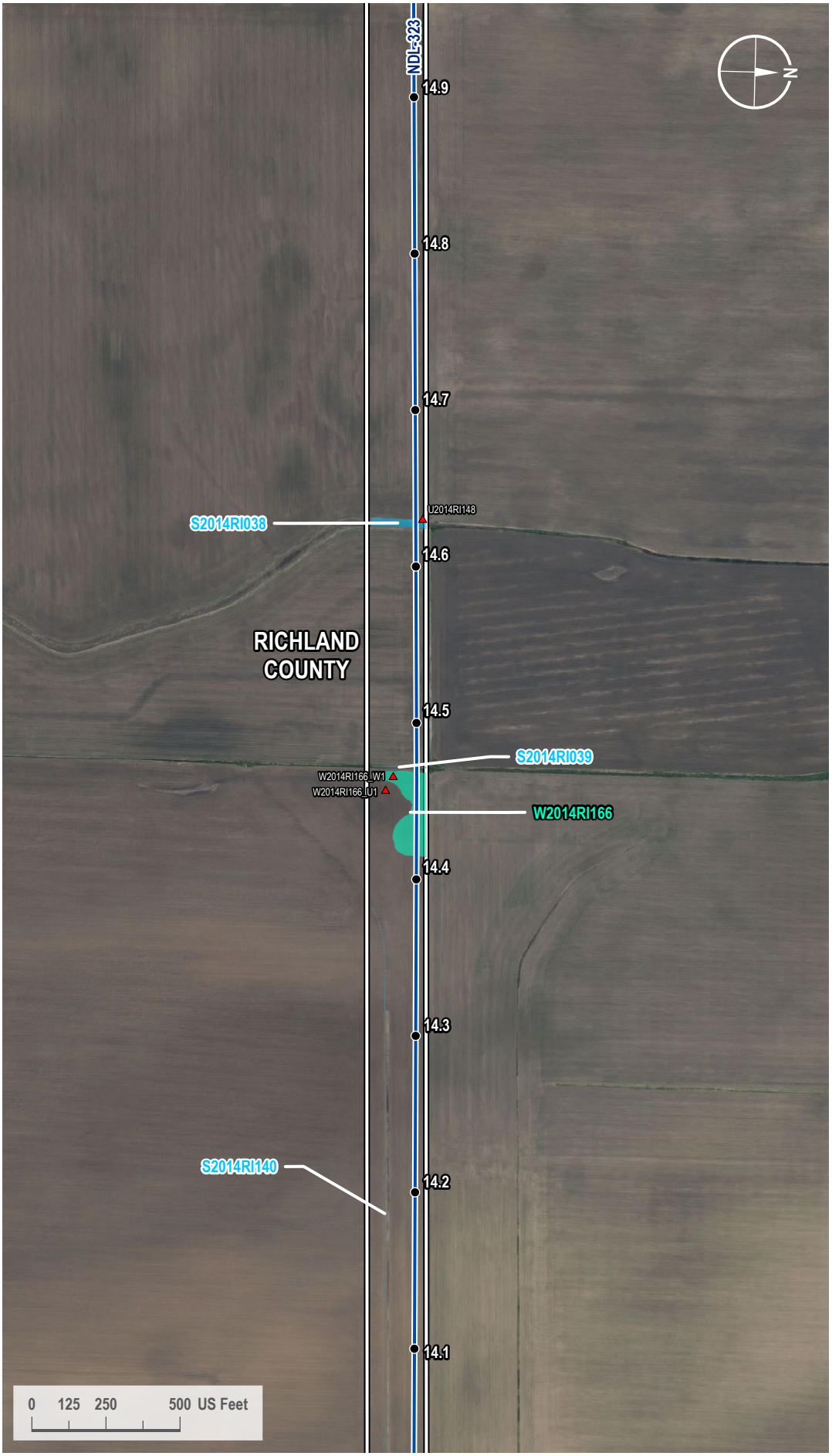

VICINITY MAP



LEGEND

- Milepost
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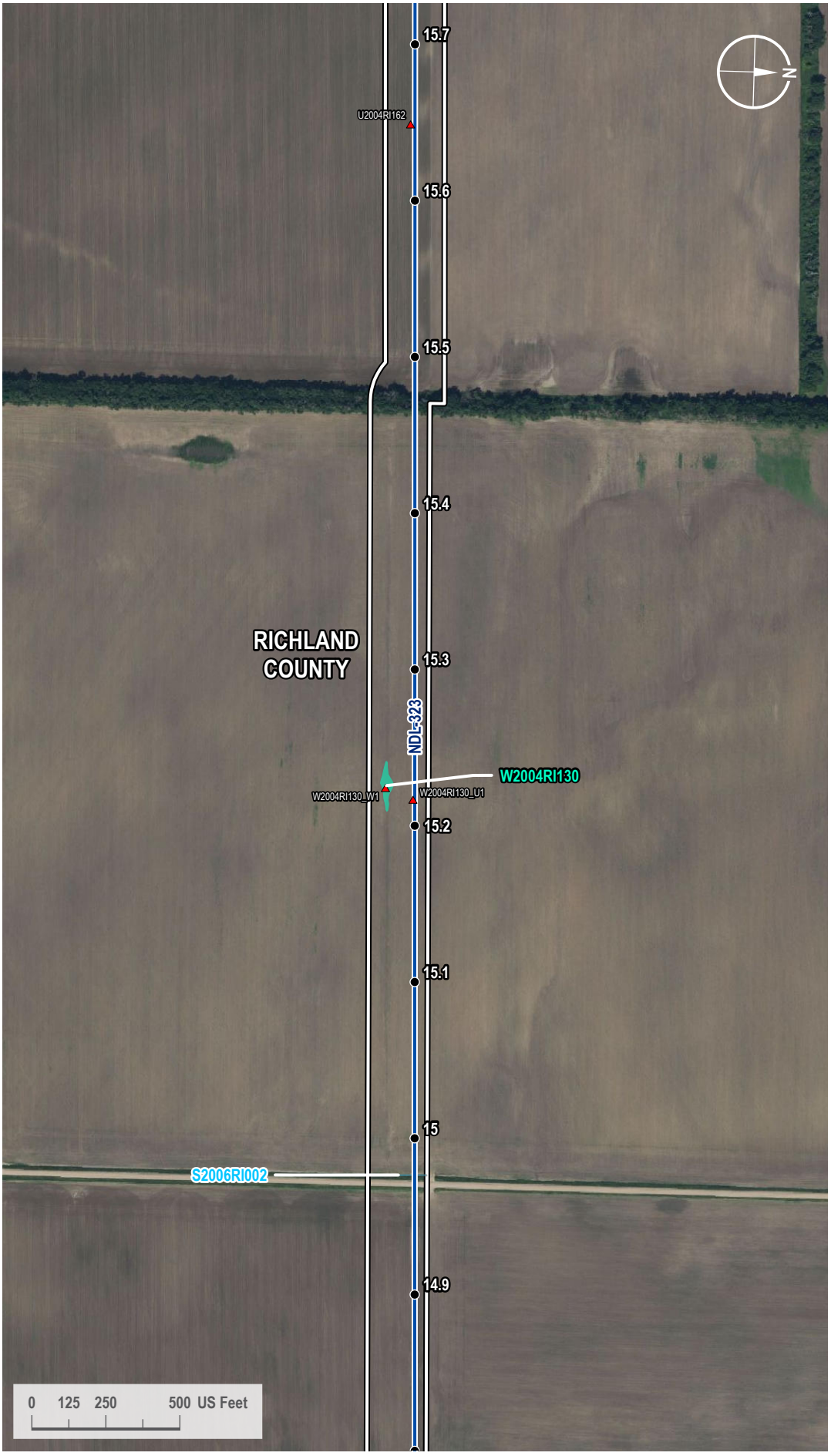

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
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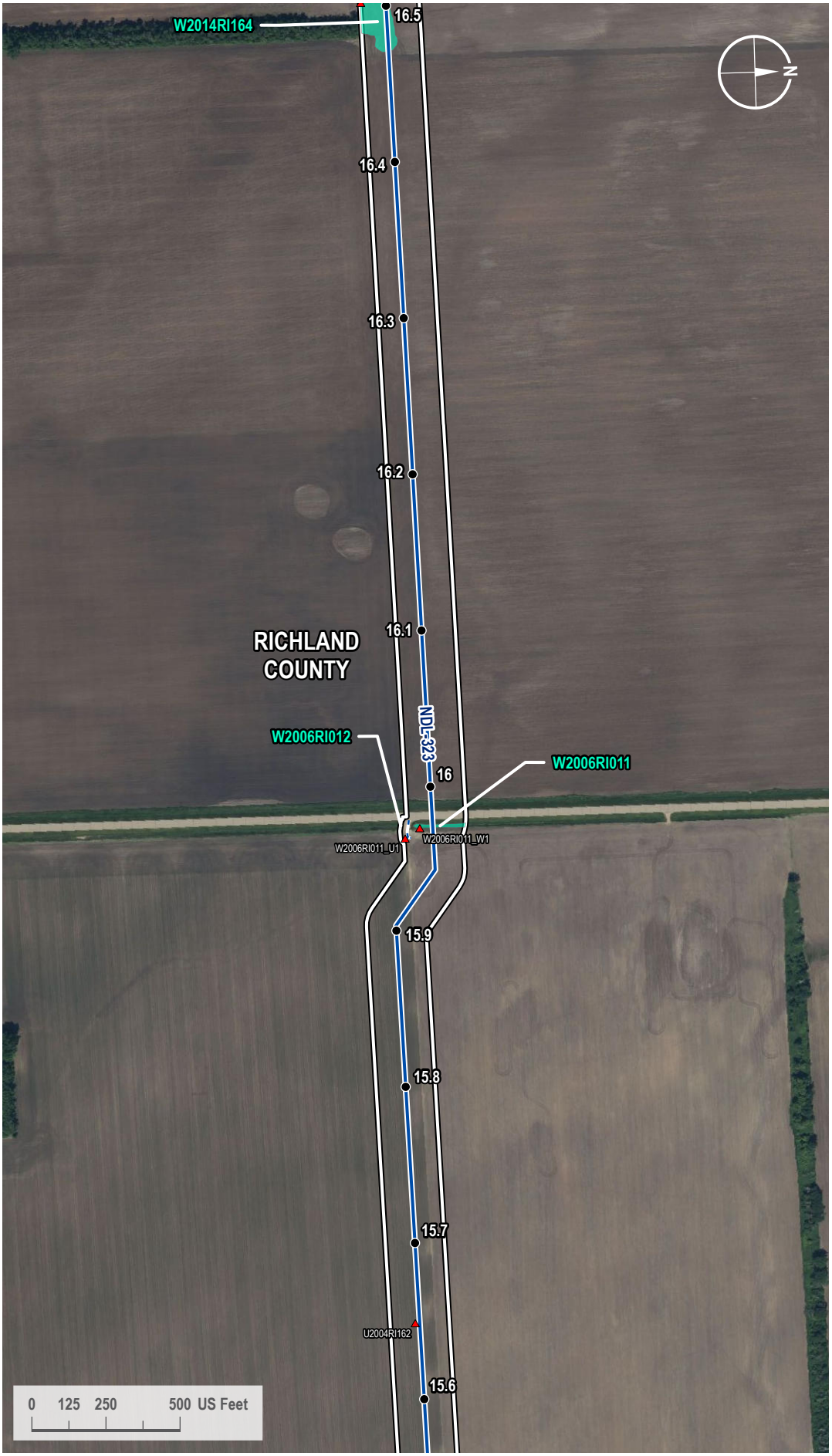

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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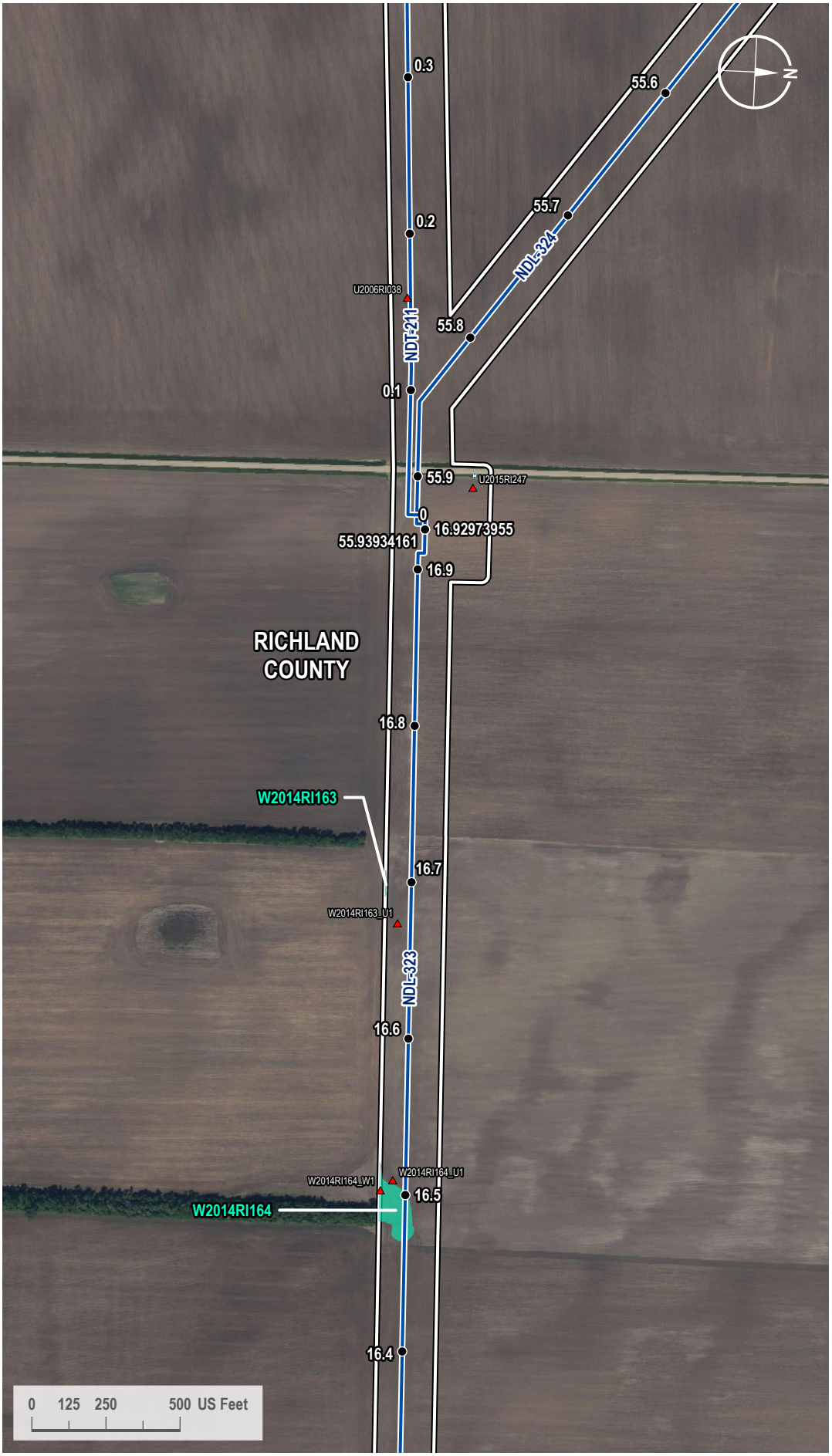

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
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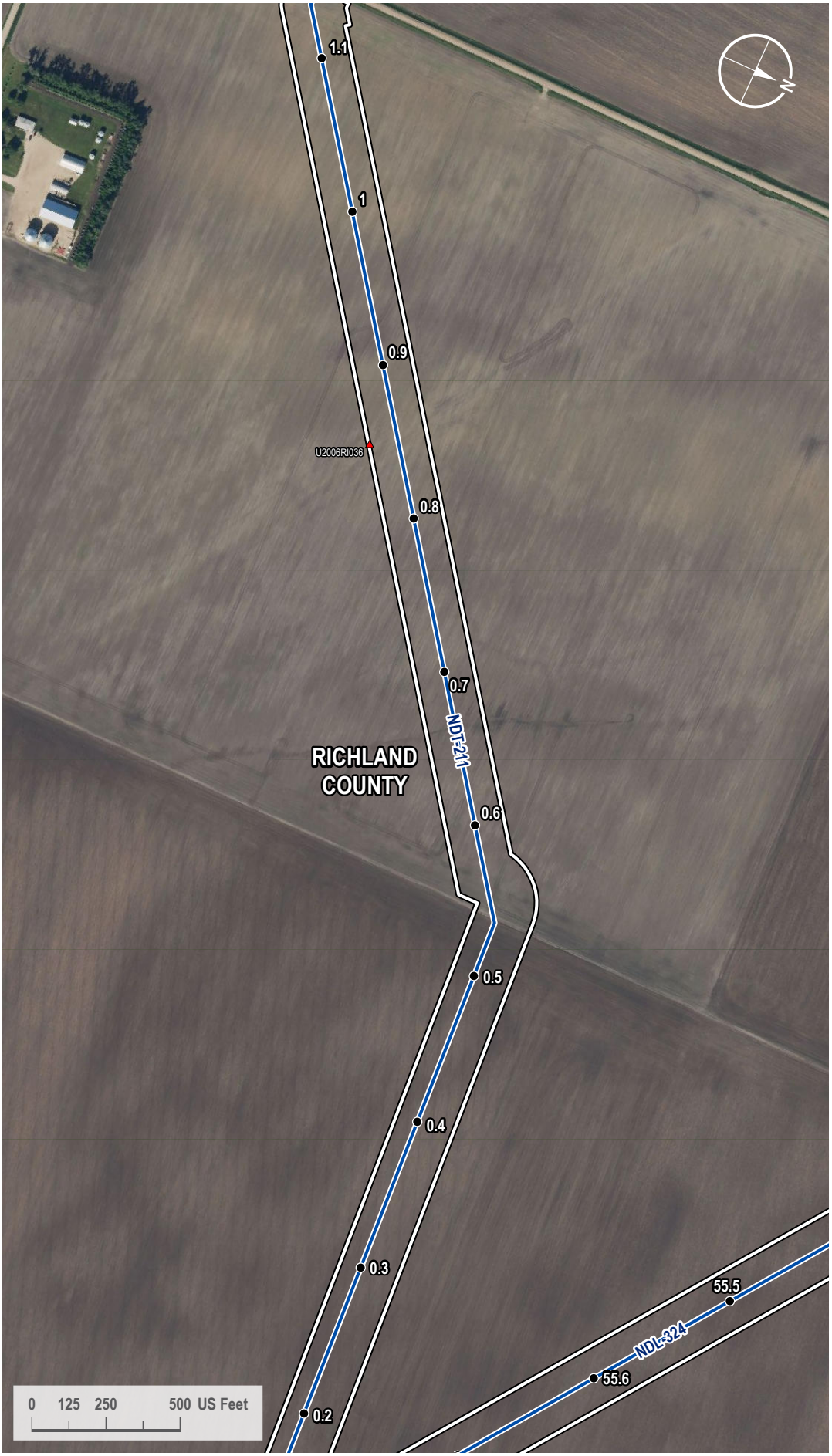

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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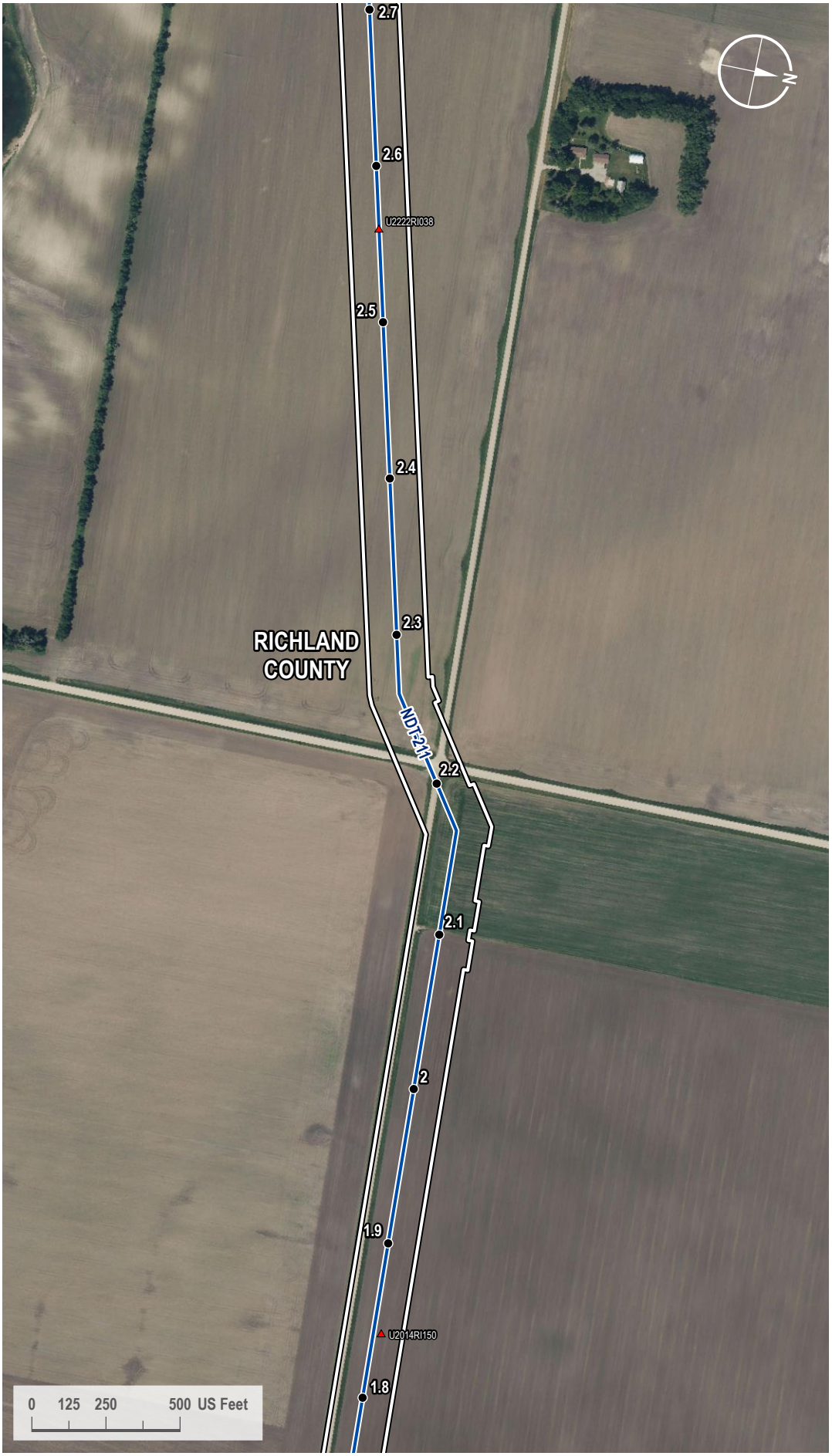

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LEGEND

- Milepost
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- 200-foot Siting Corridor

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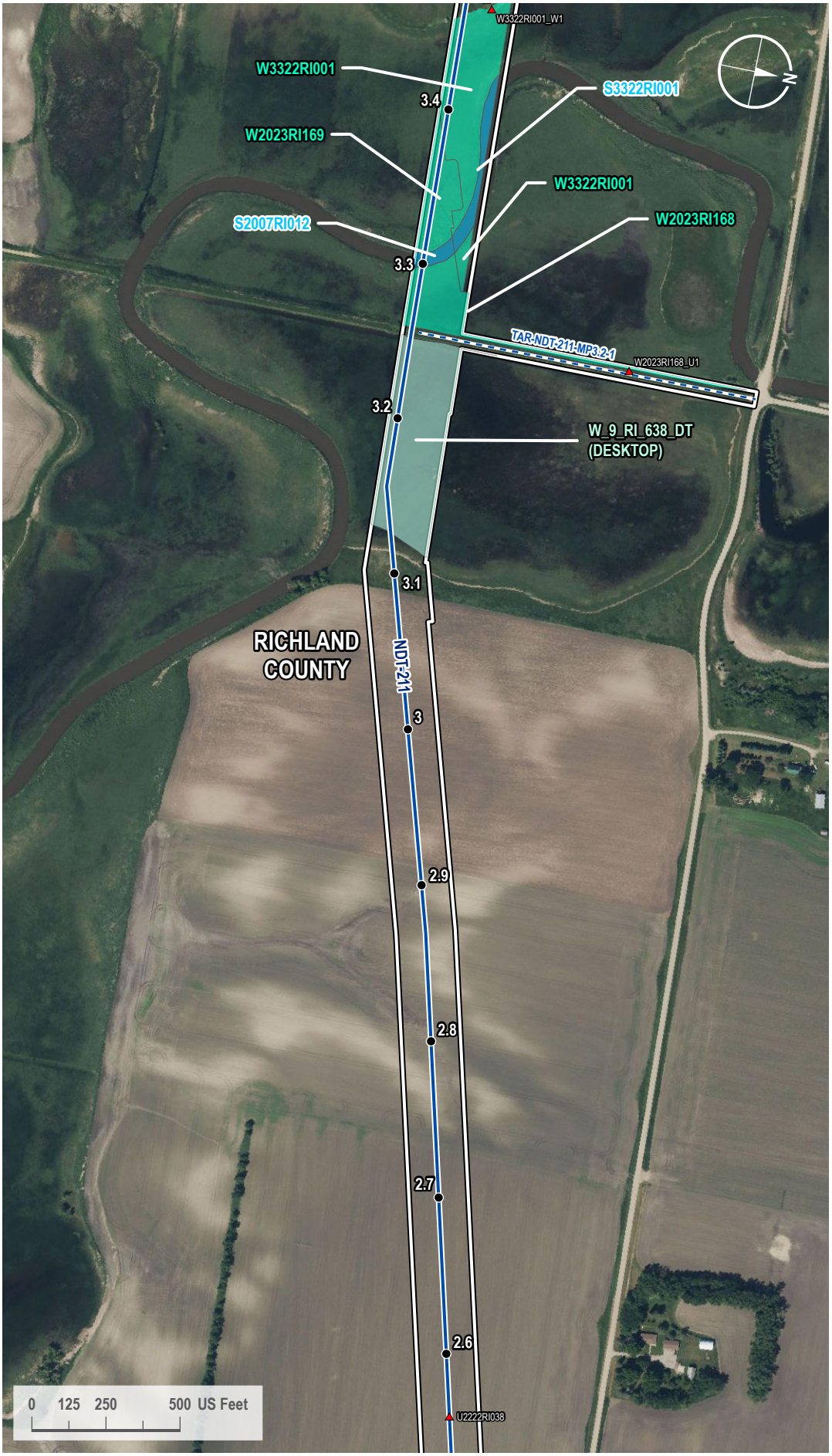

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
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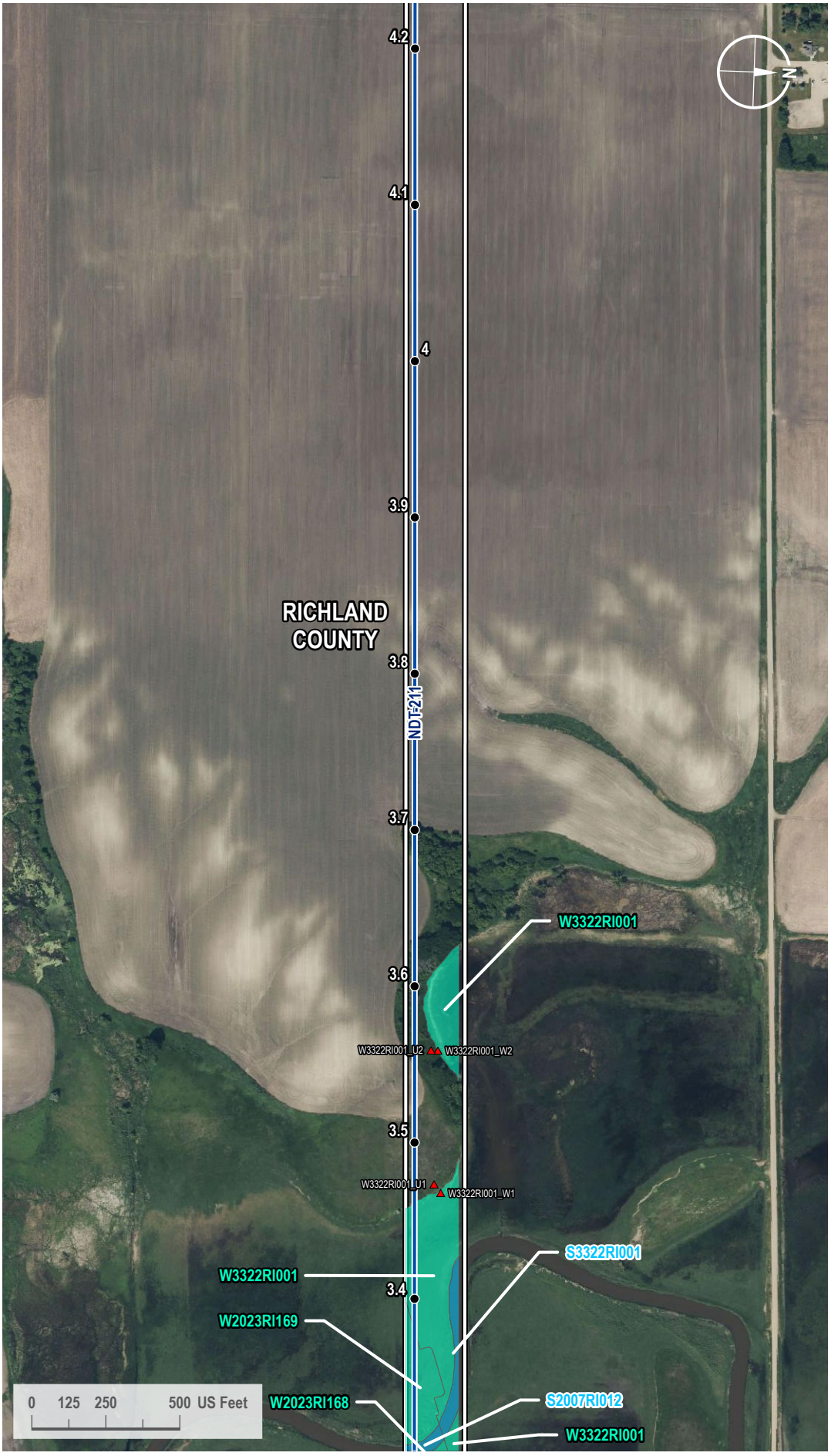

VICINITY MAP



LEGEND

- Milepost
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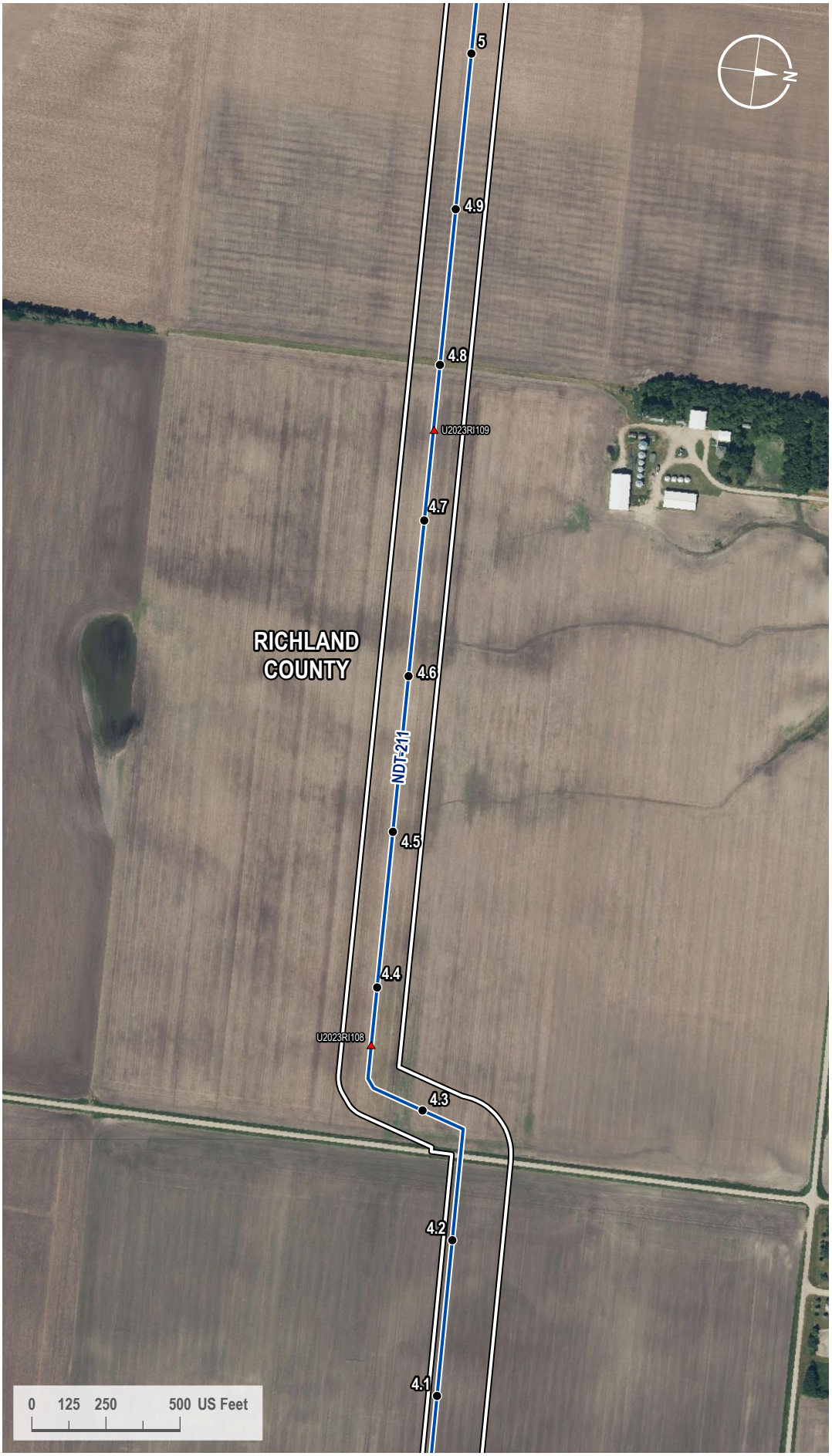

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LEGEND

- Milepost
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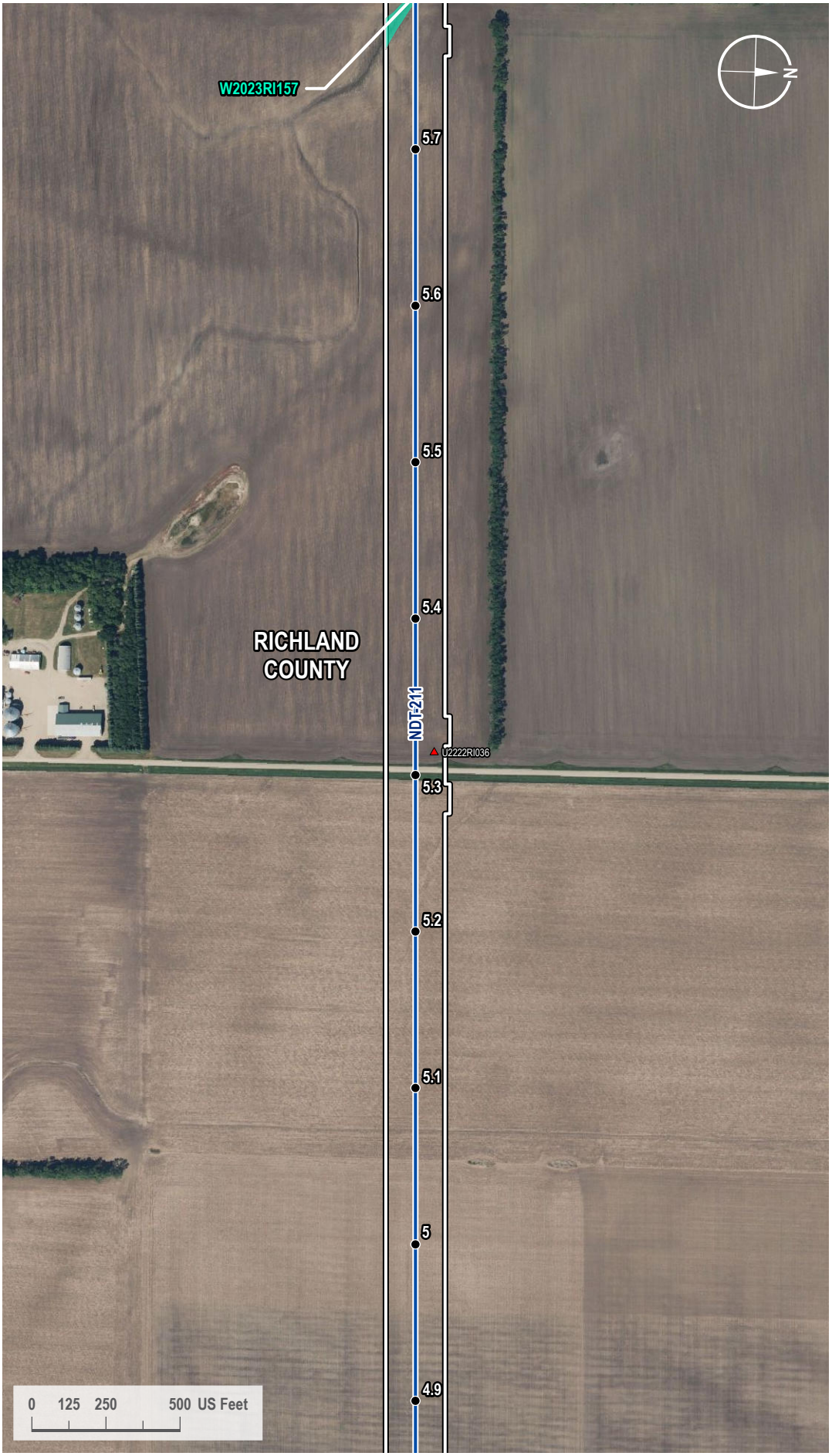

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LEGEND

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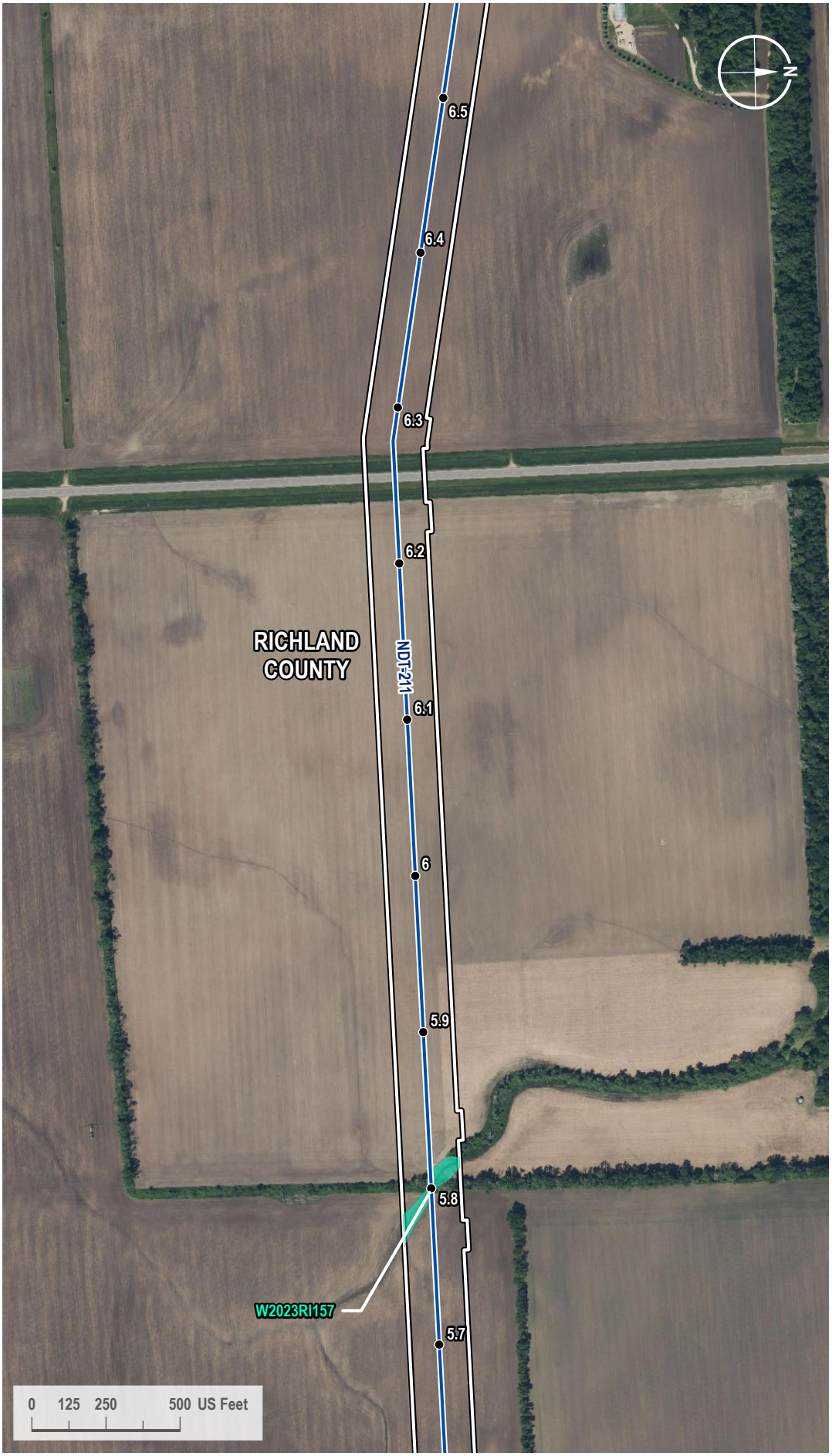

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LEGEND

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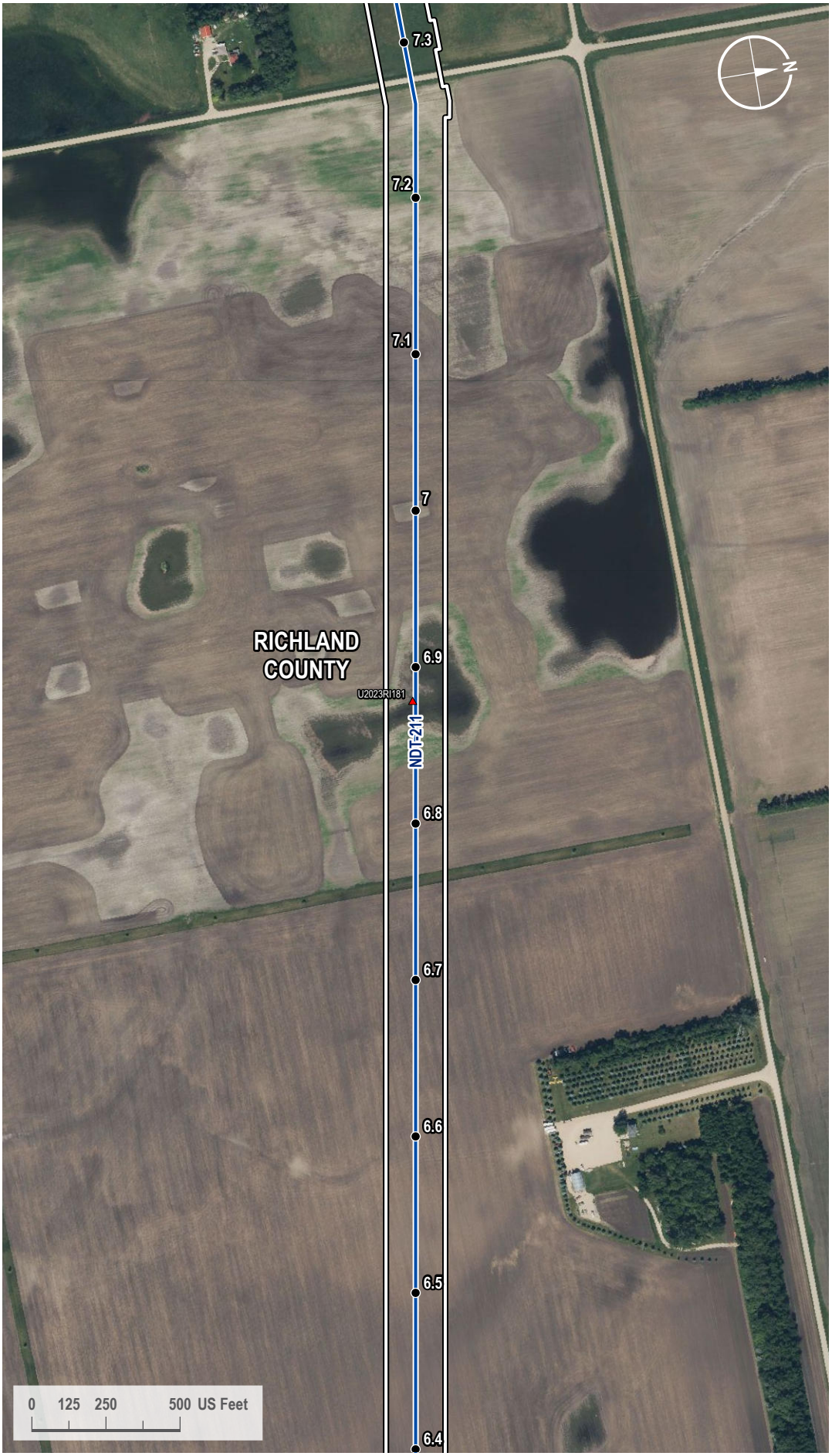

VICINITY MAP



LEGEND

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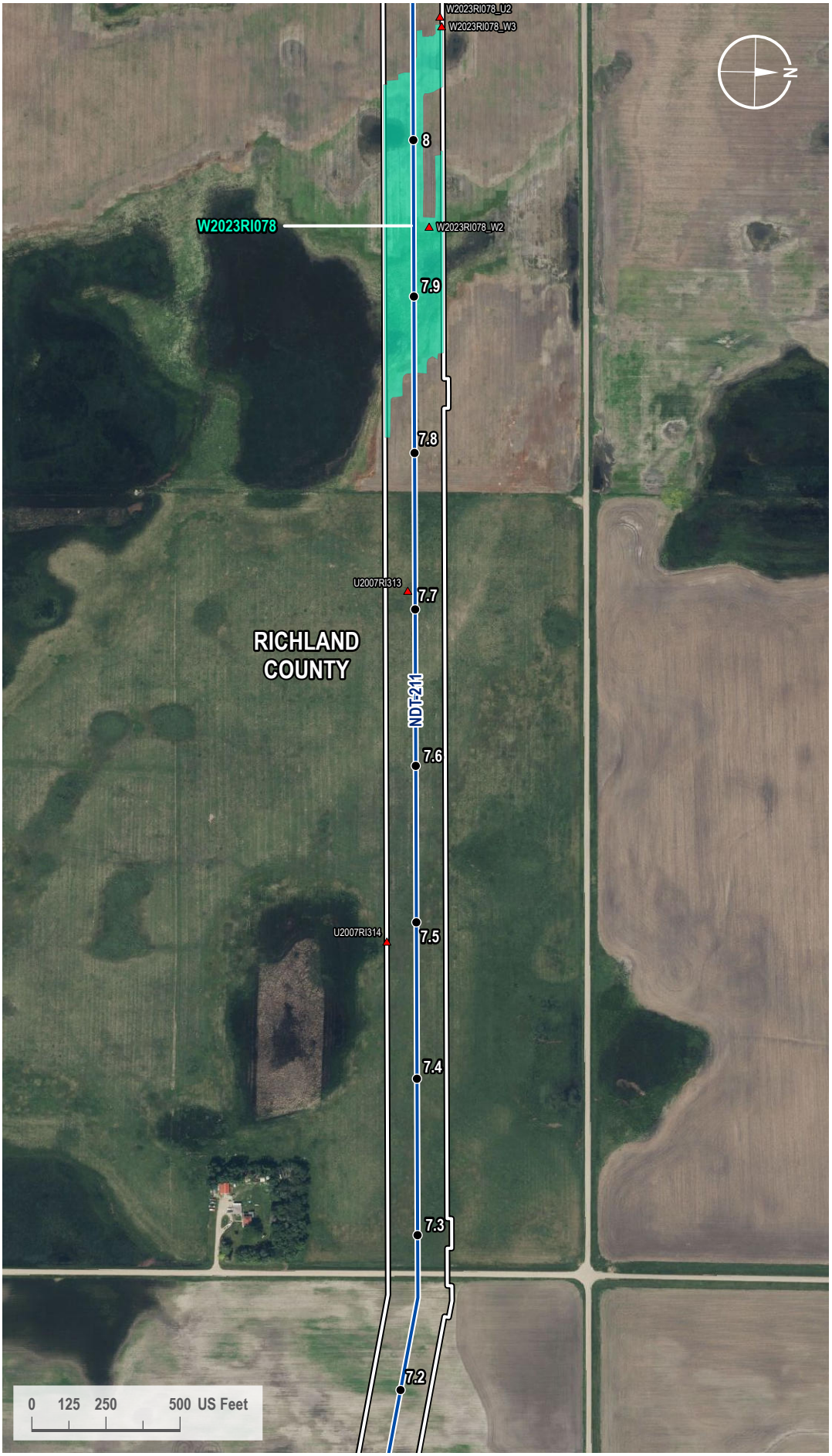

VICINITY MAP



LEGEND

- Milepost
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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

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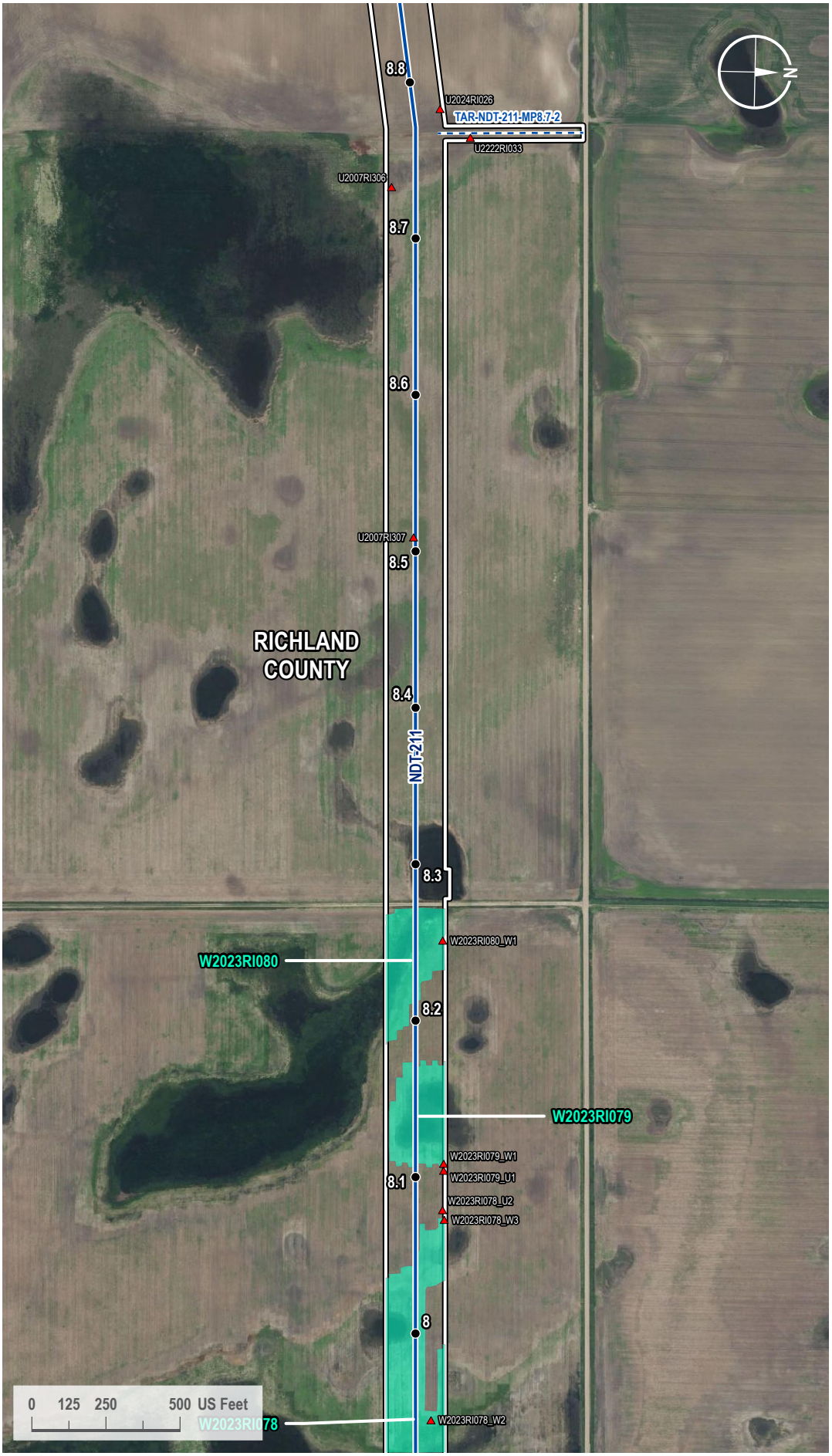

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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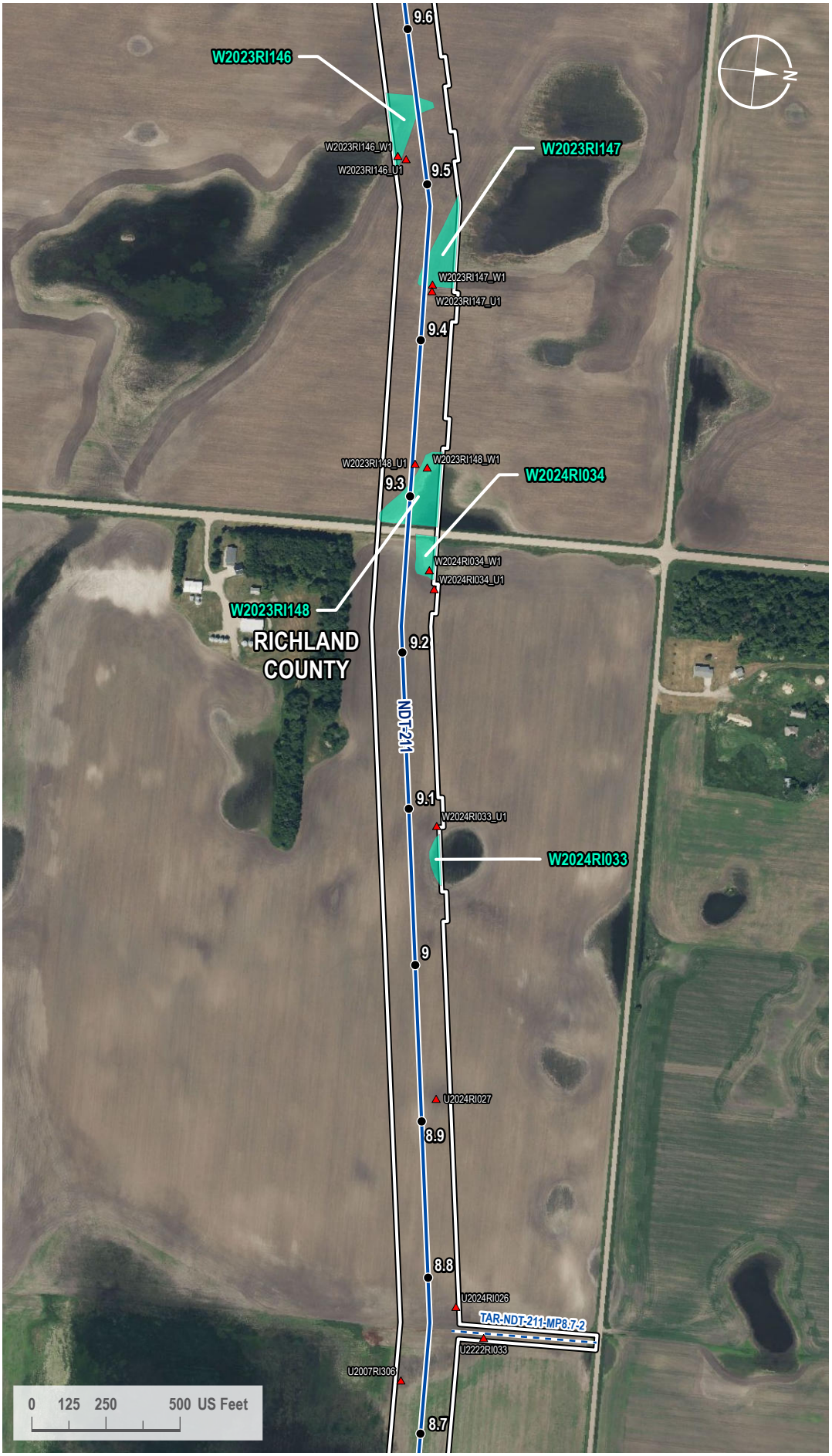

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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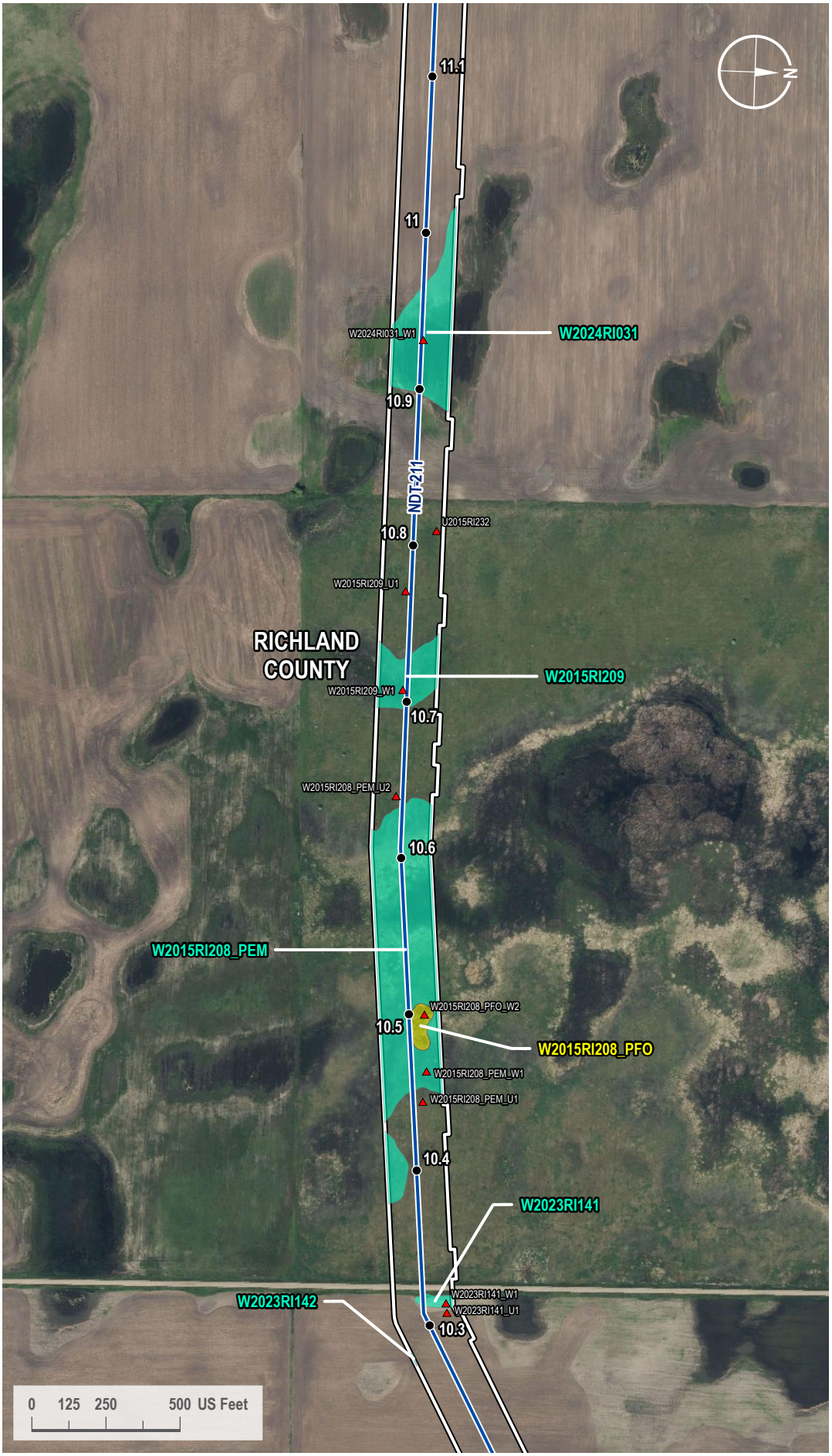

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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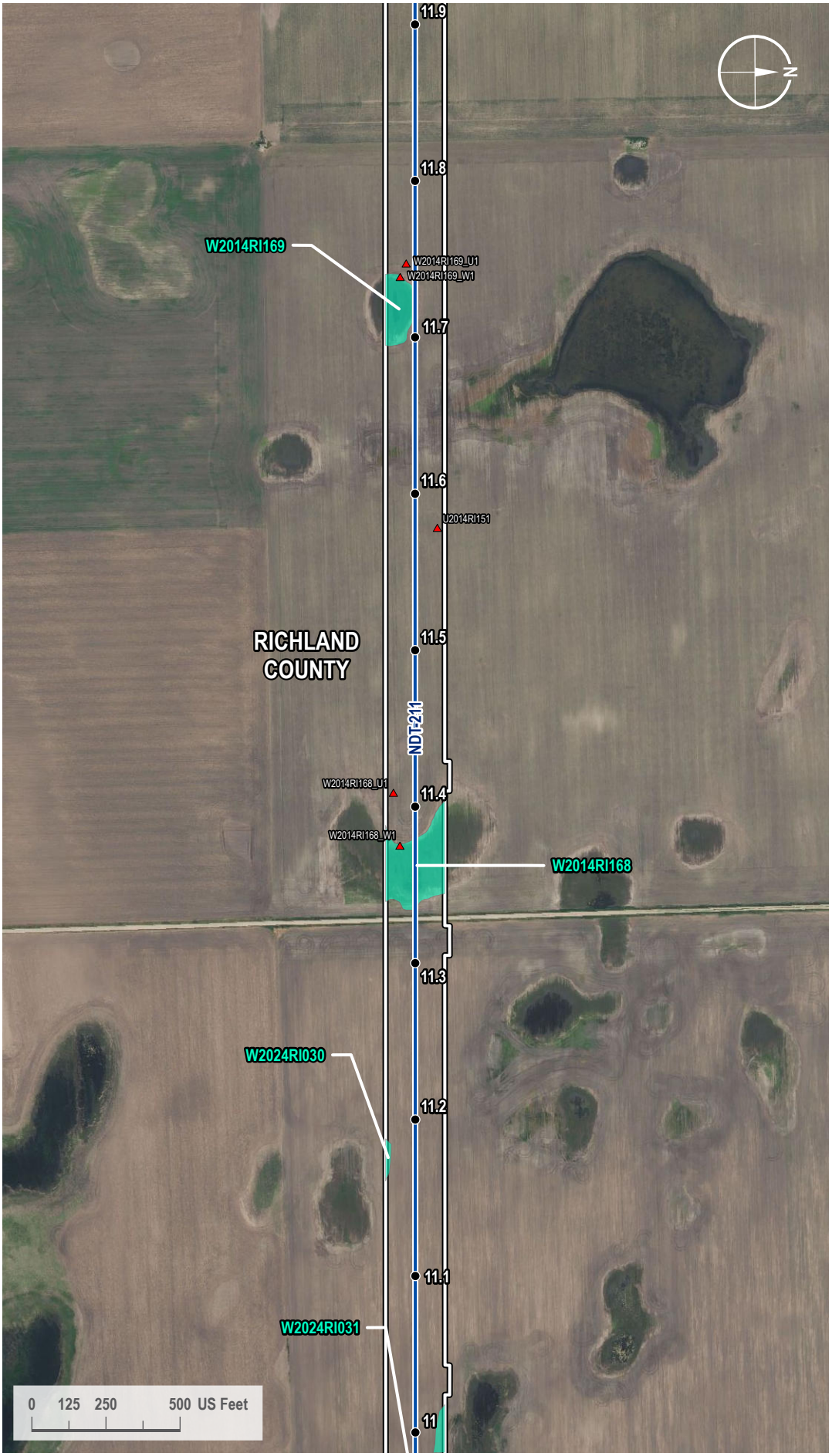

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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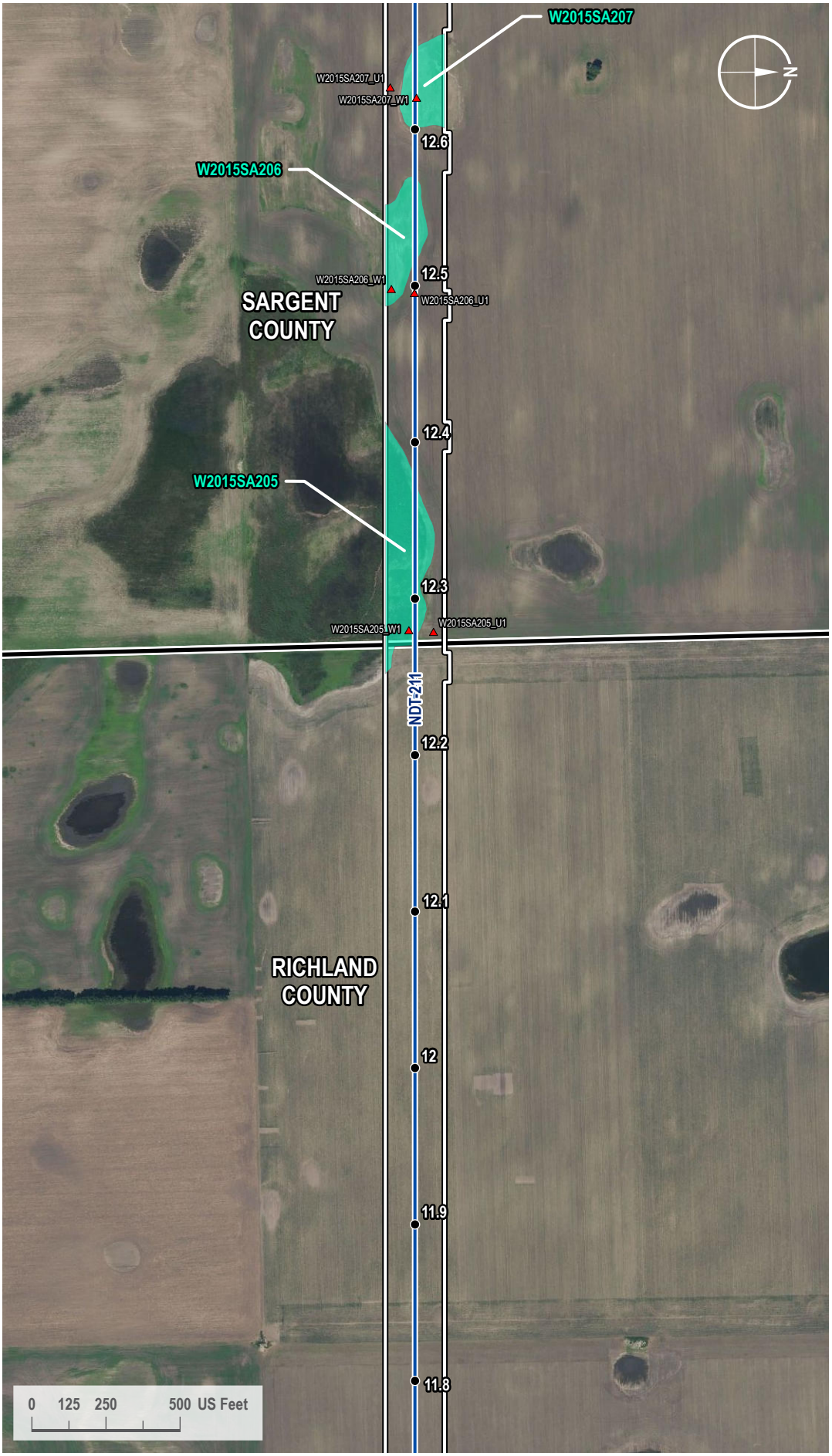

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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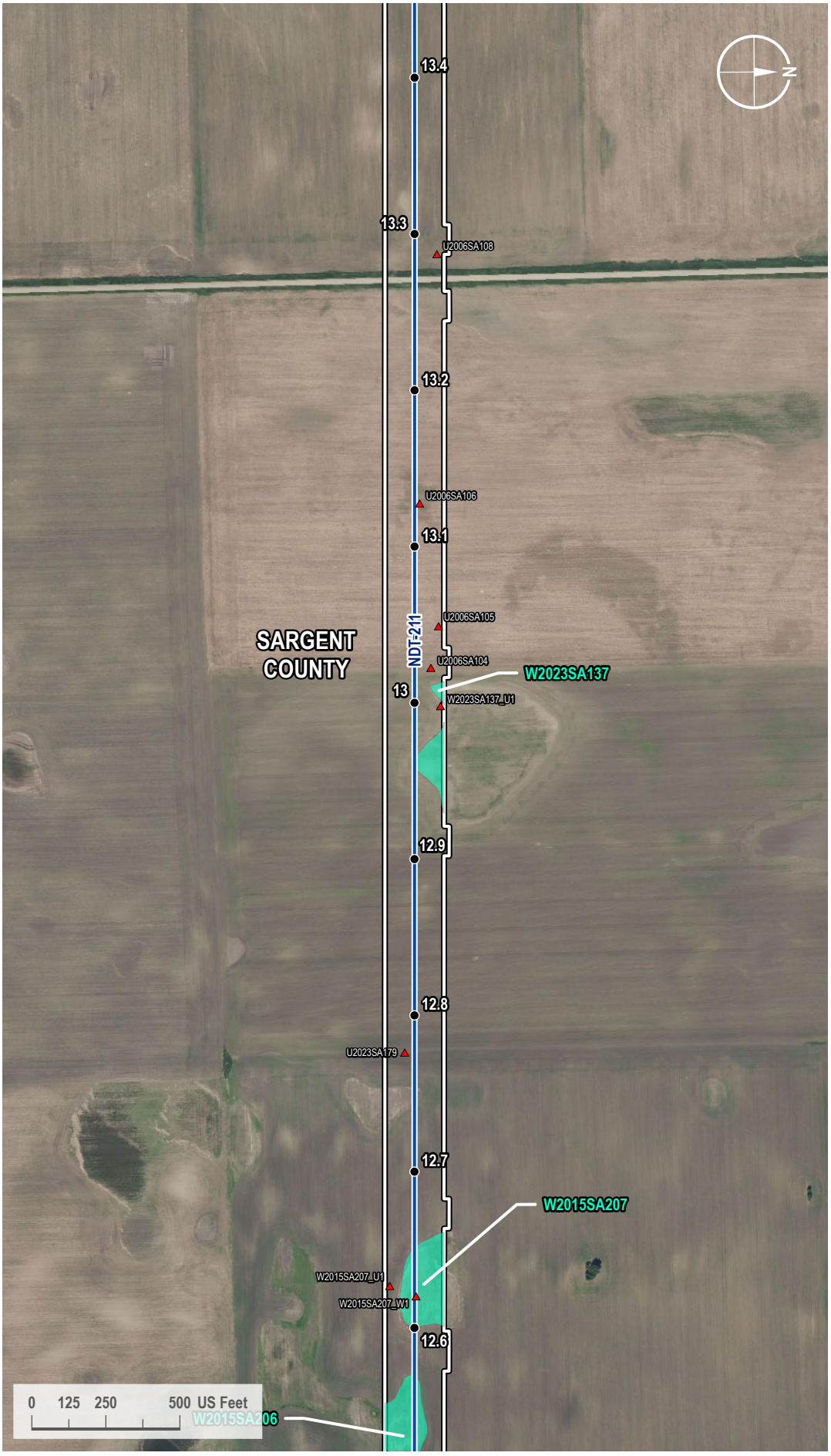

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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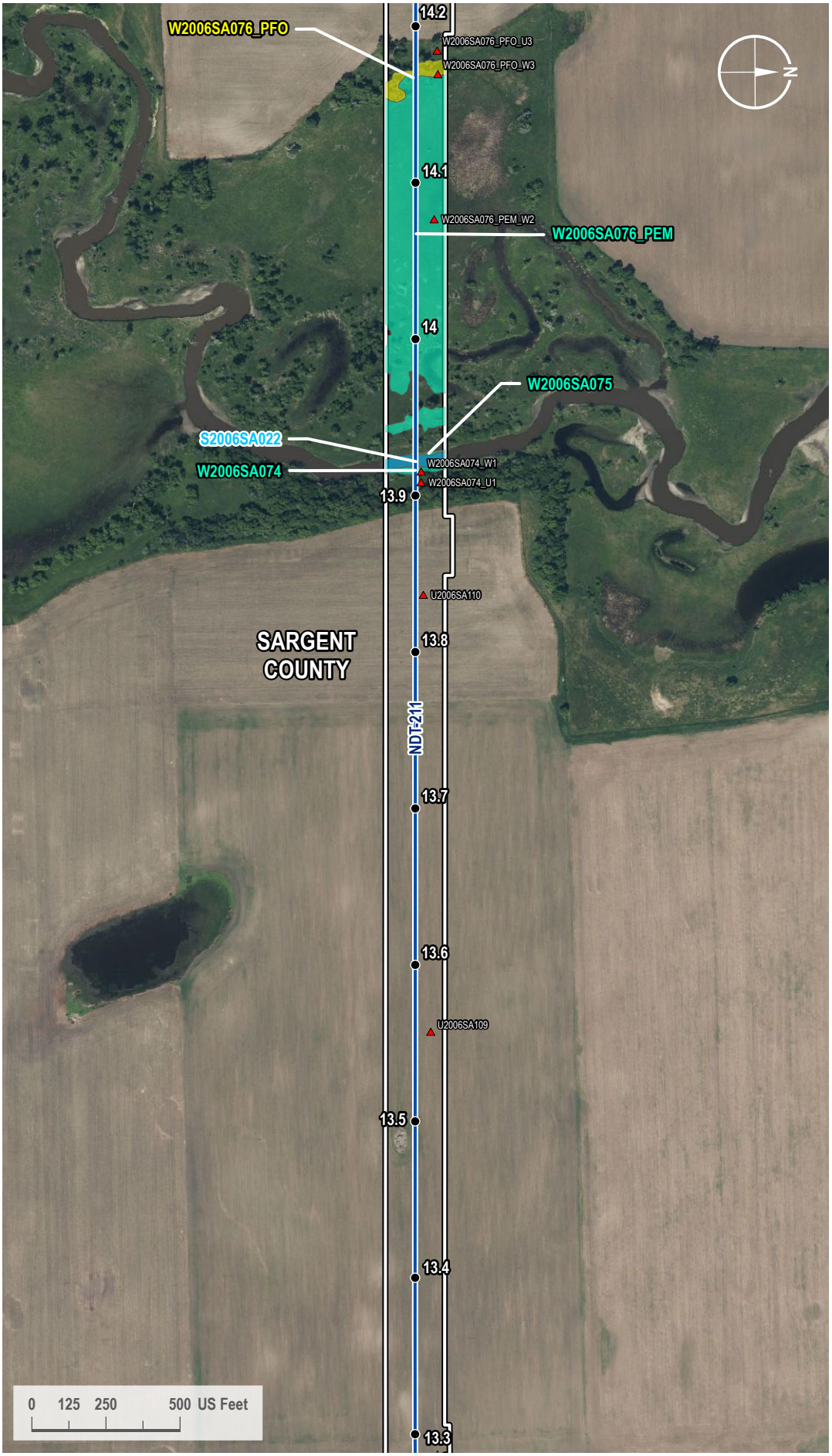

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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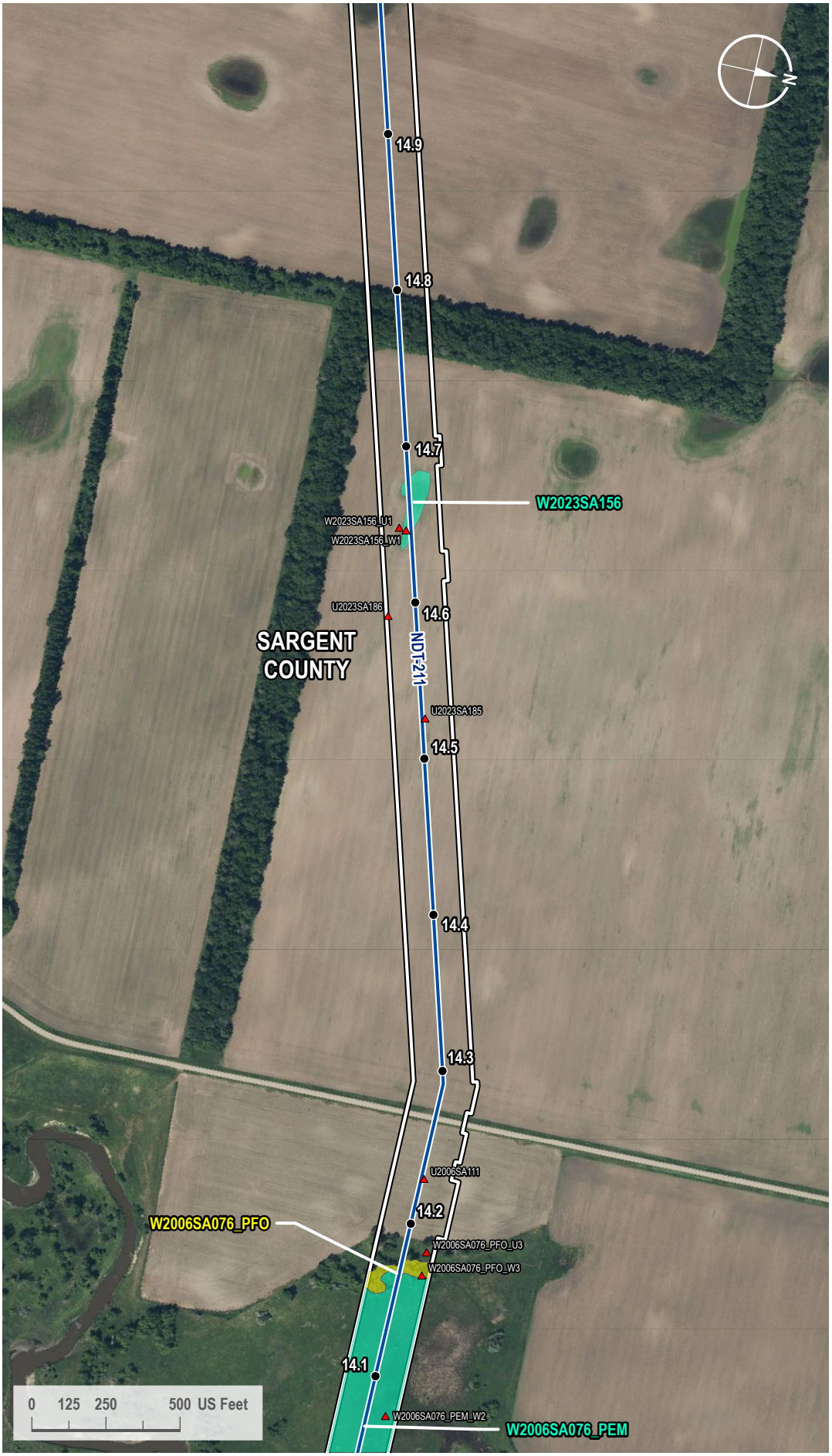

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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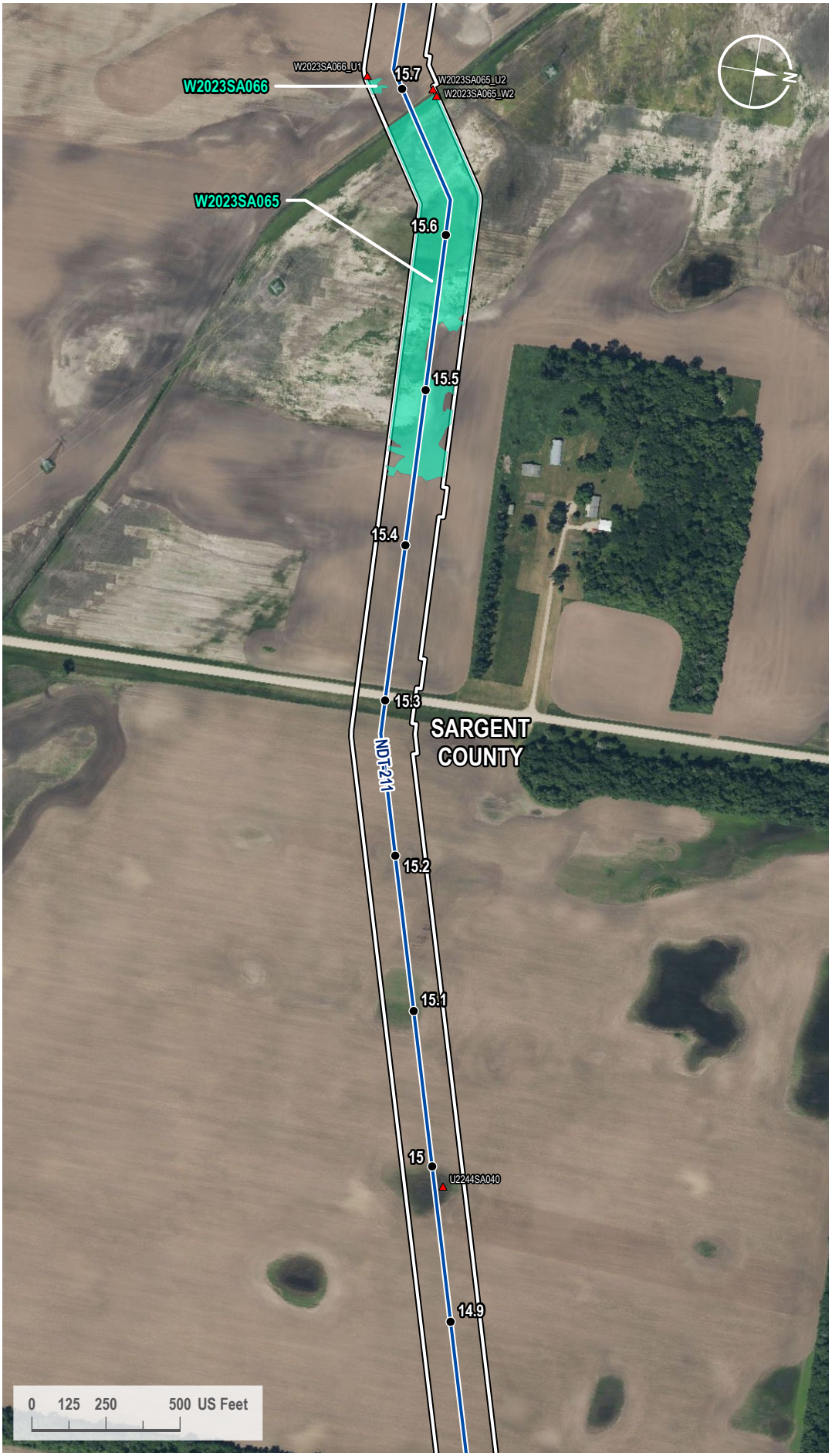

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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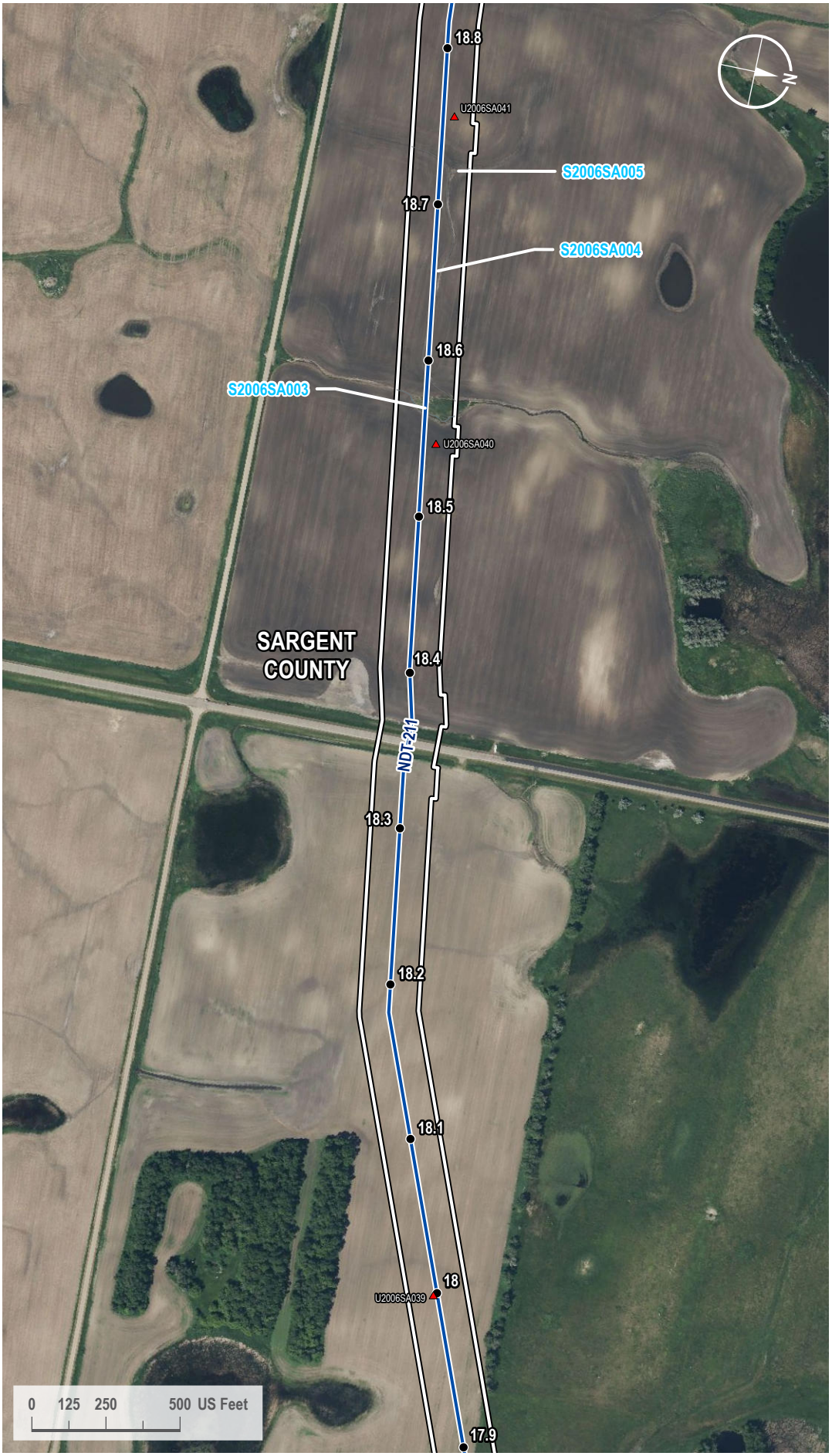

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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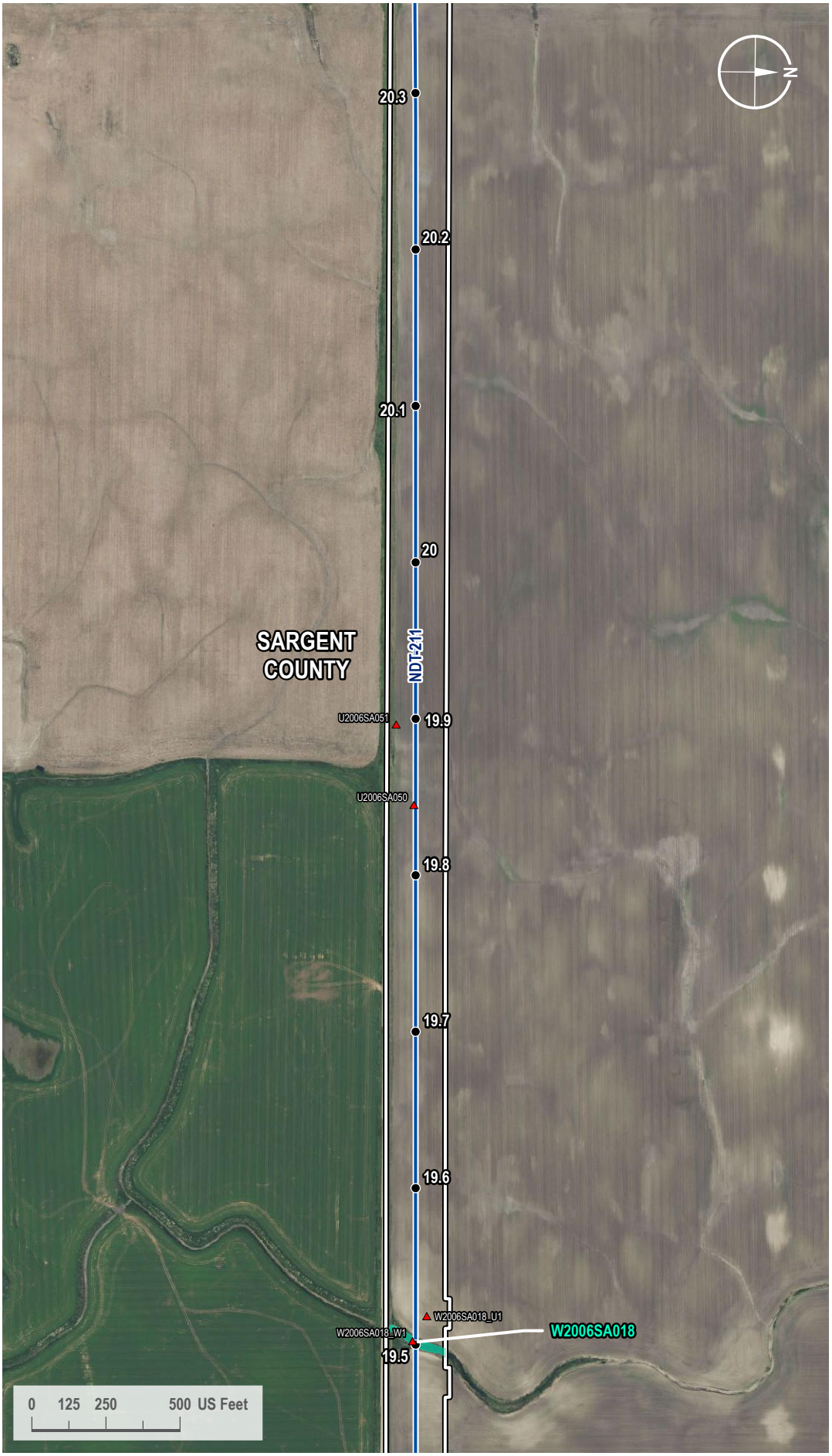

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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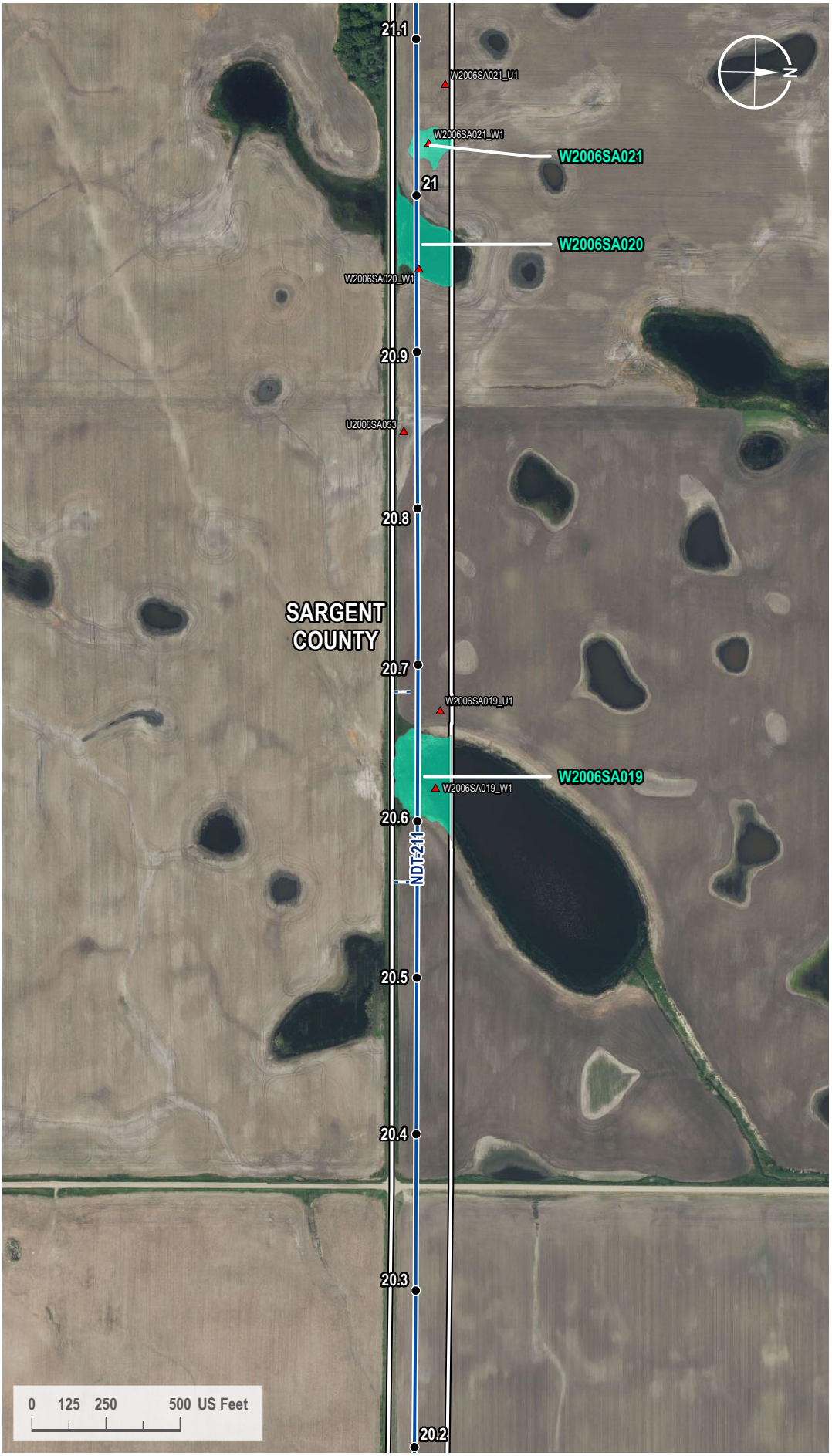

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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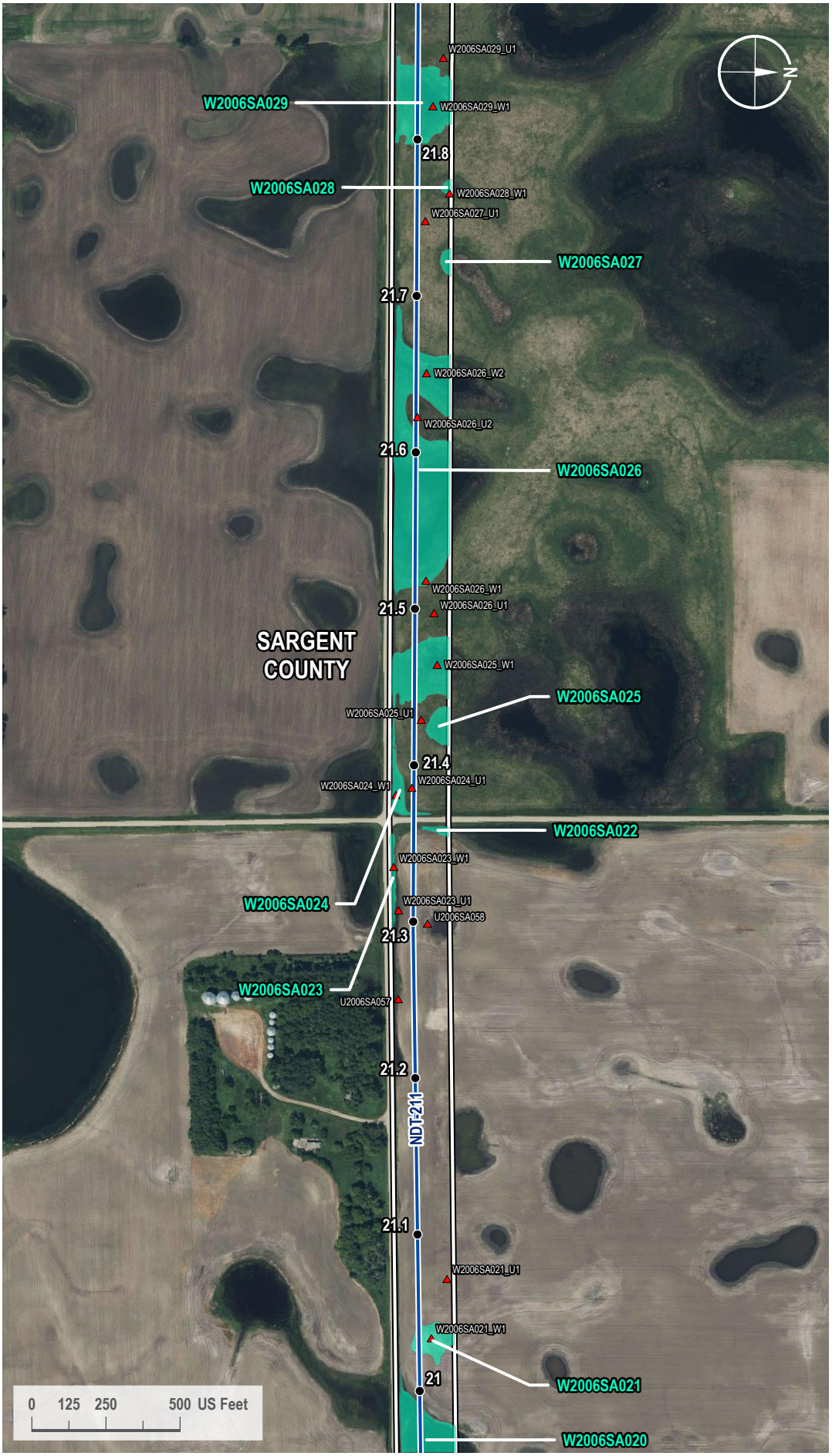

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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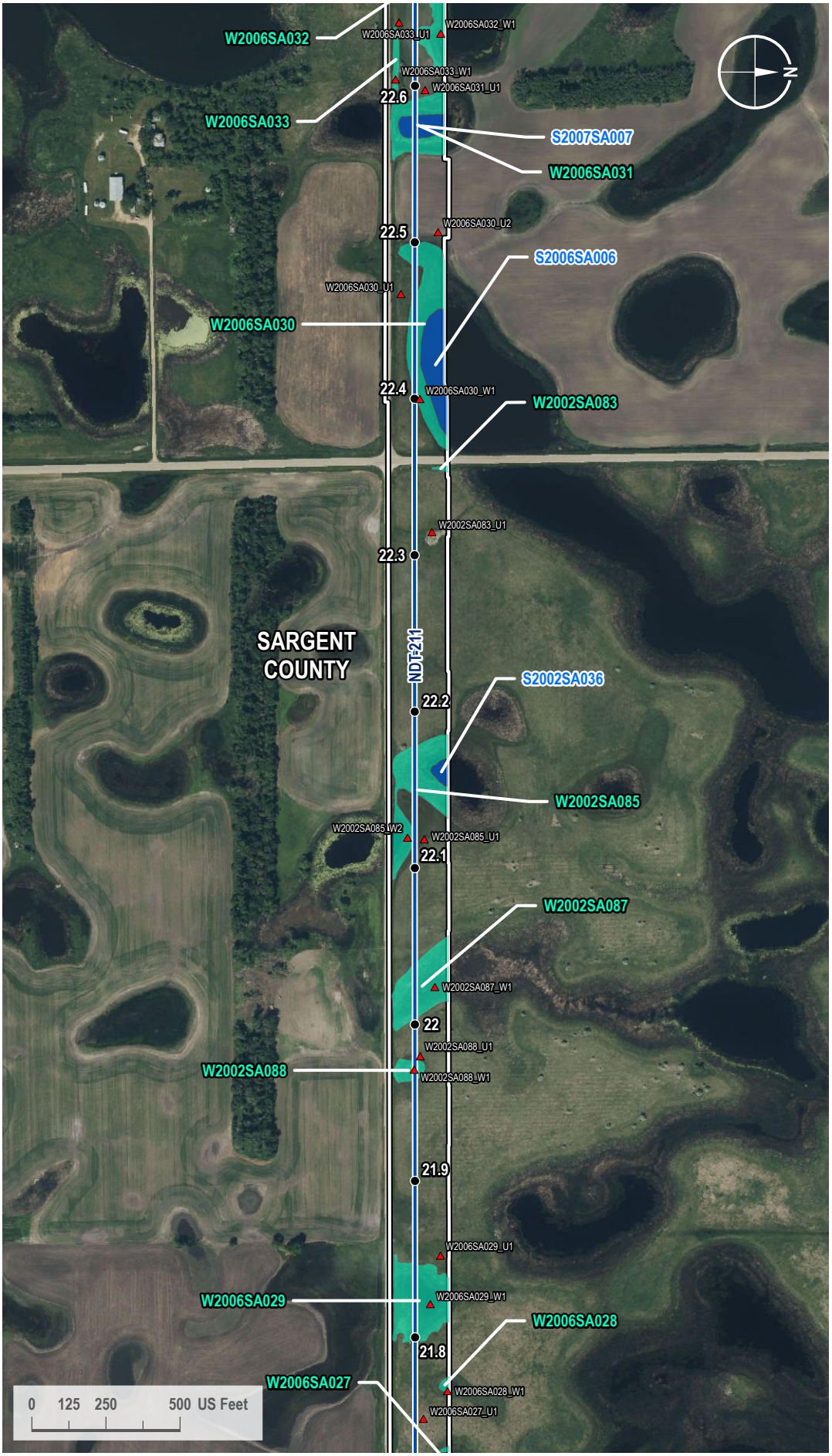

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Figure Title: Aerial Map

Figure Number: Appendix A-2

Scale:	Projection:
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Sheet:	**Drawing Number:**
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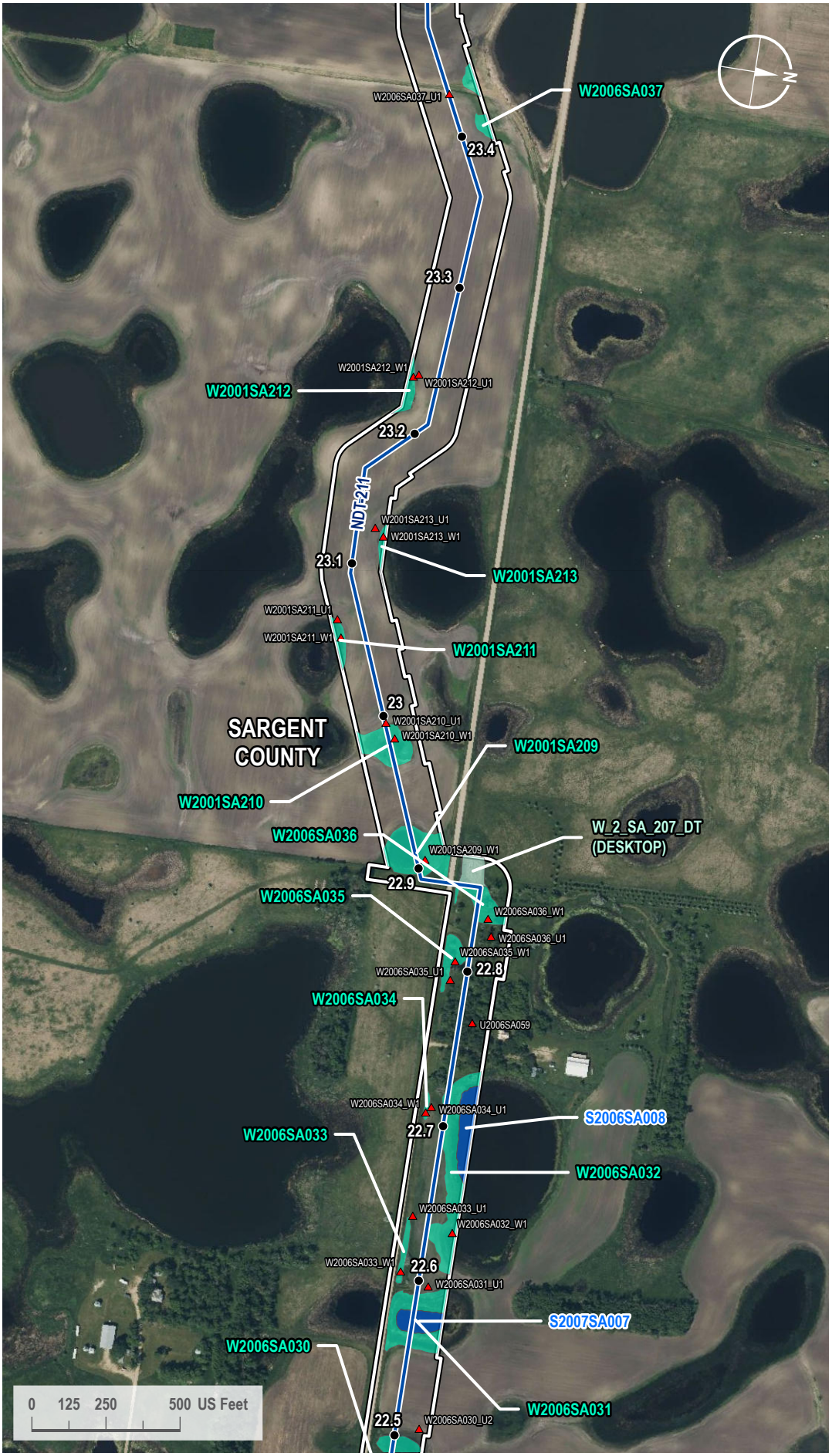

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
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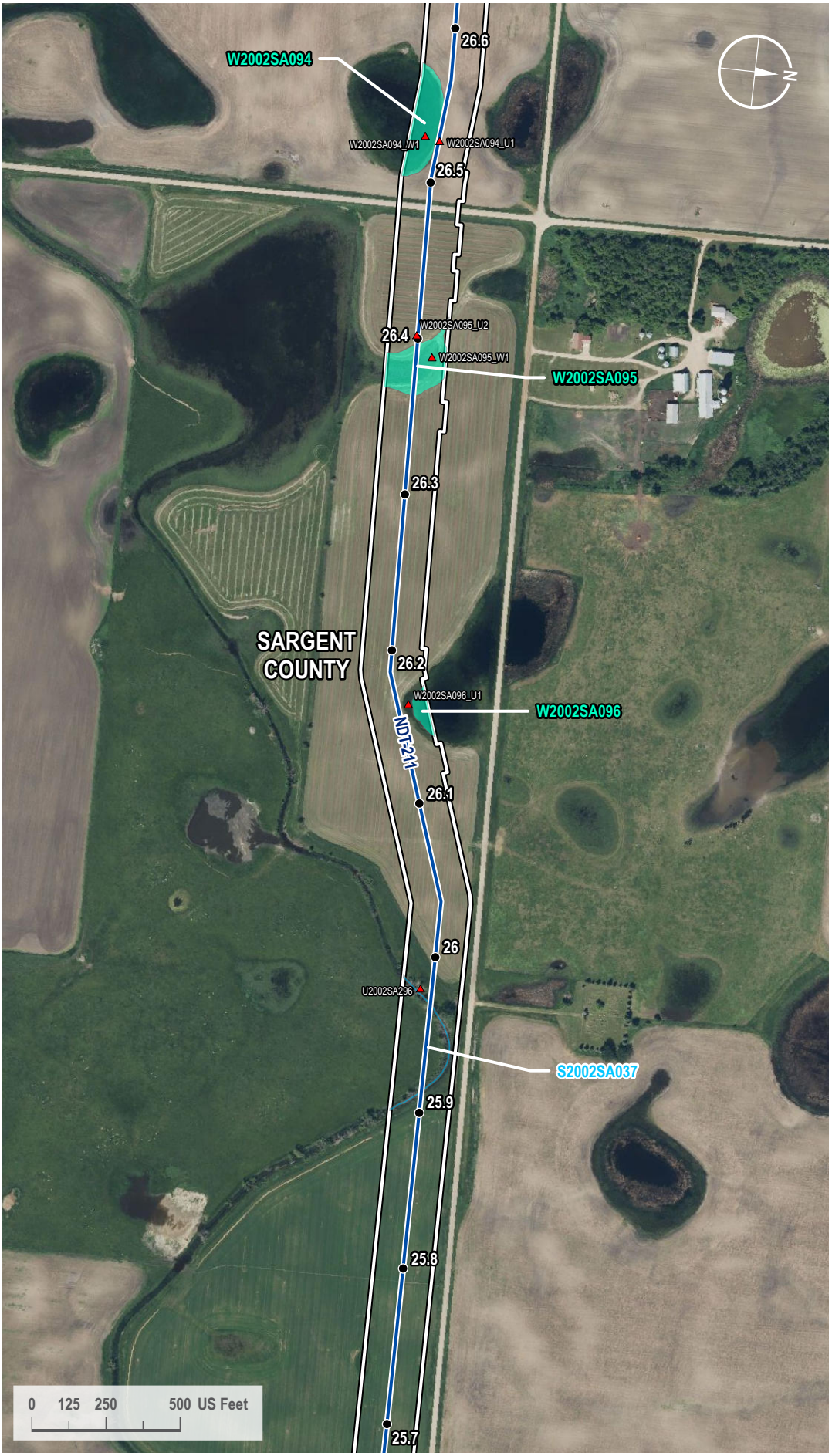

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
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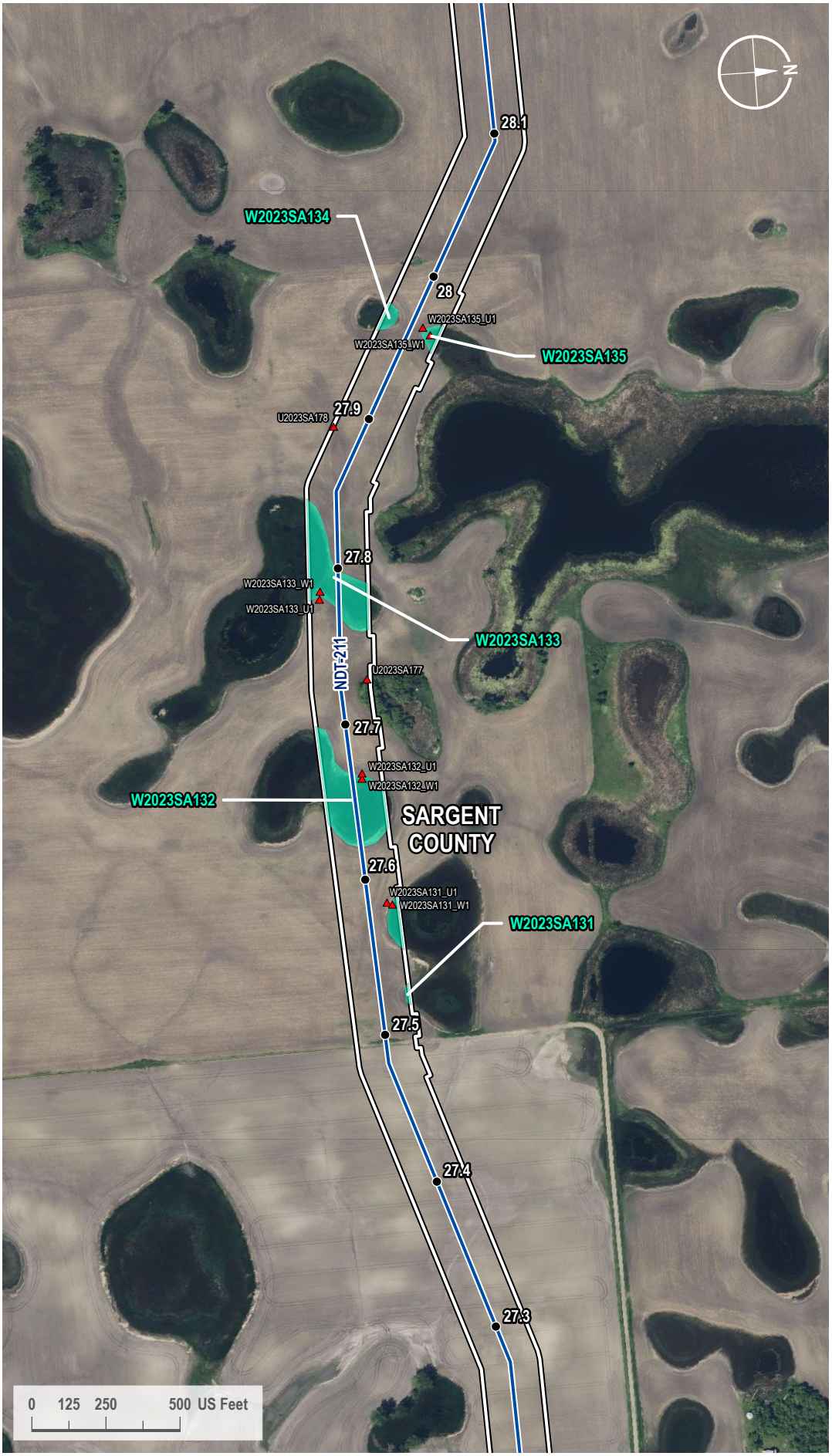

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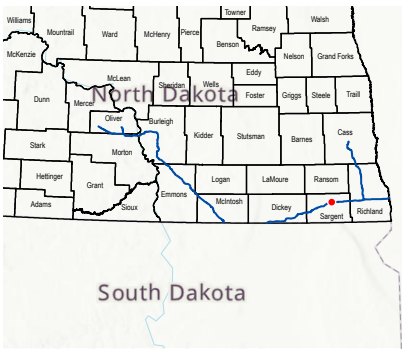

LEGEND

- Milepost
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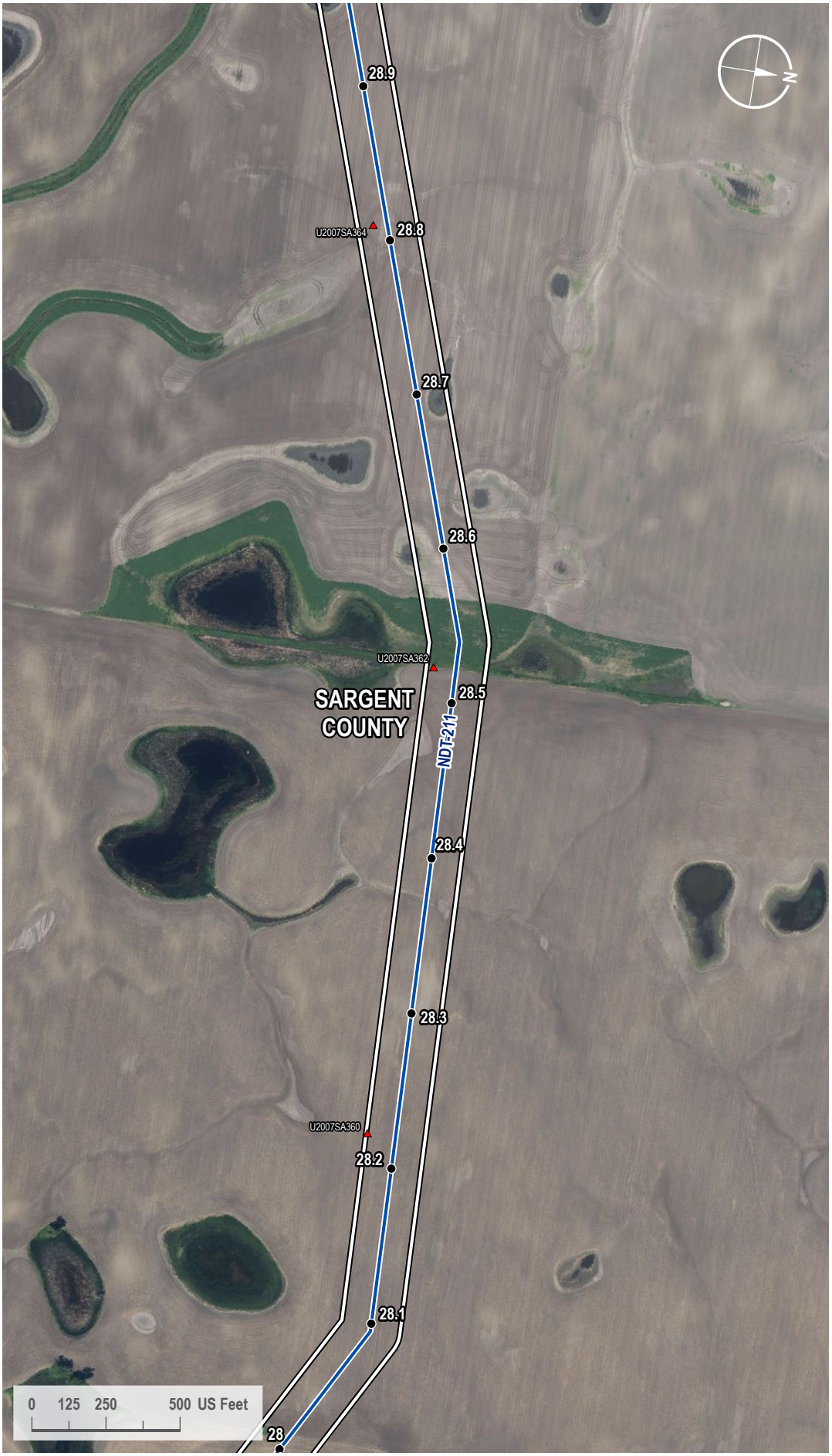

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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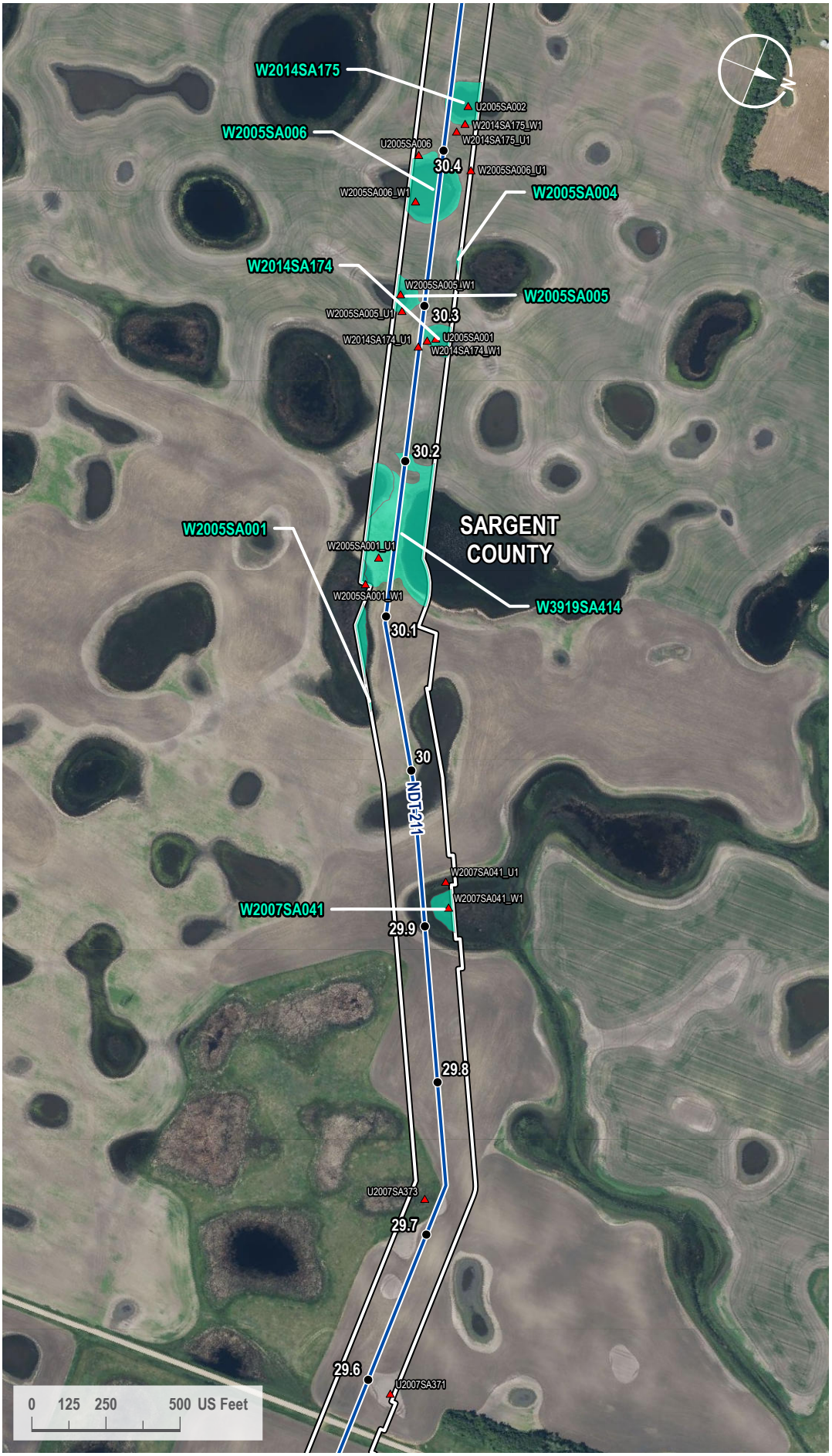

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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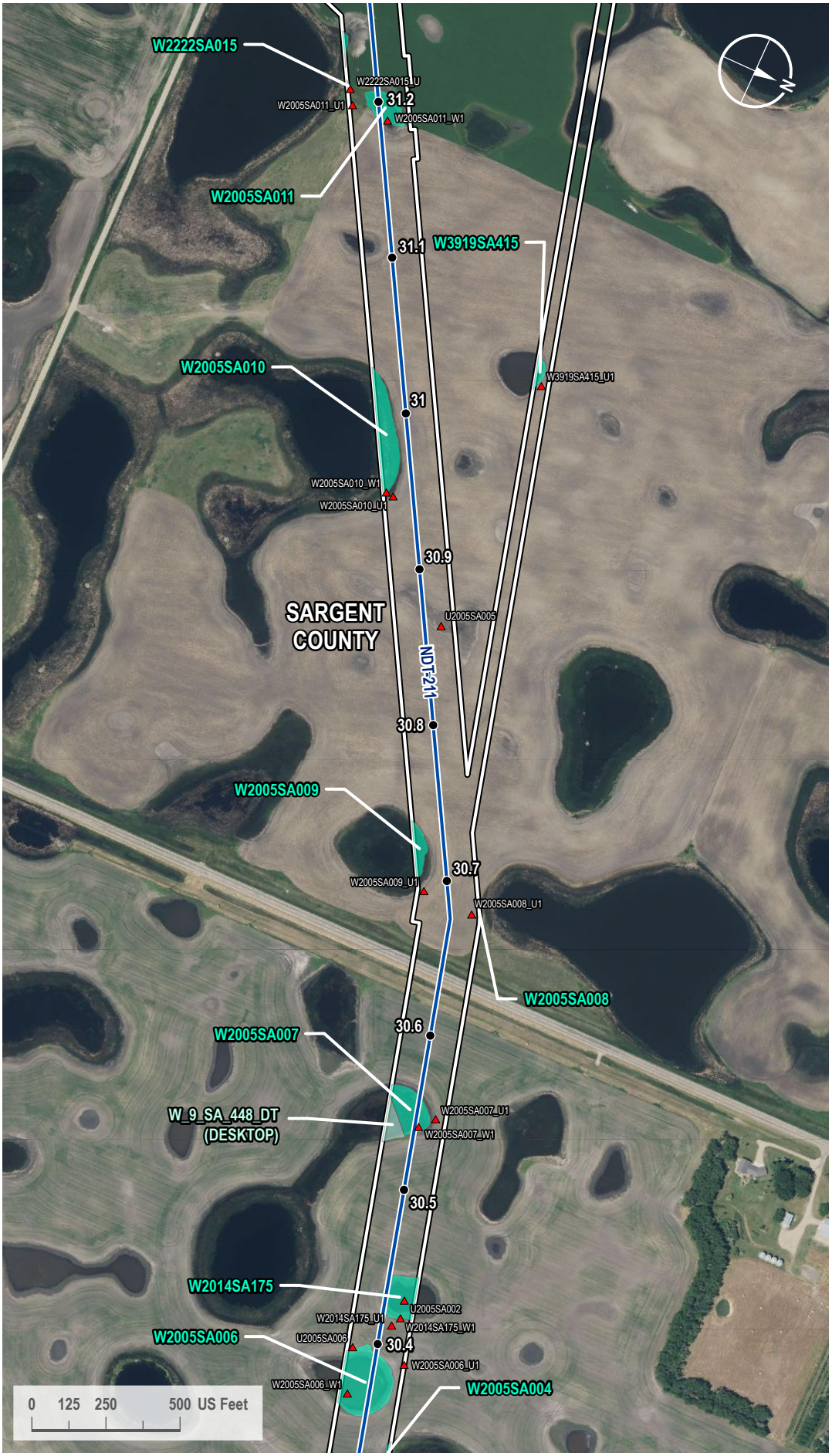

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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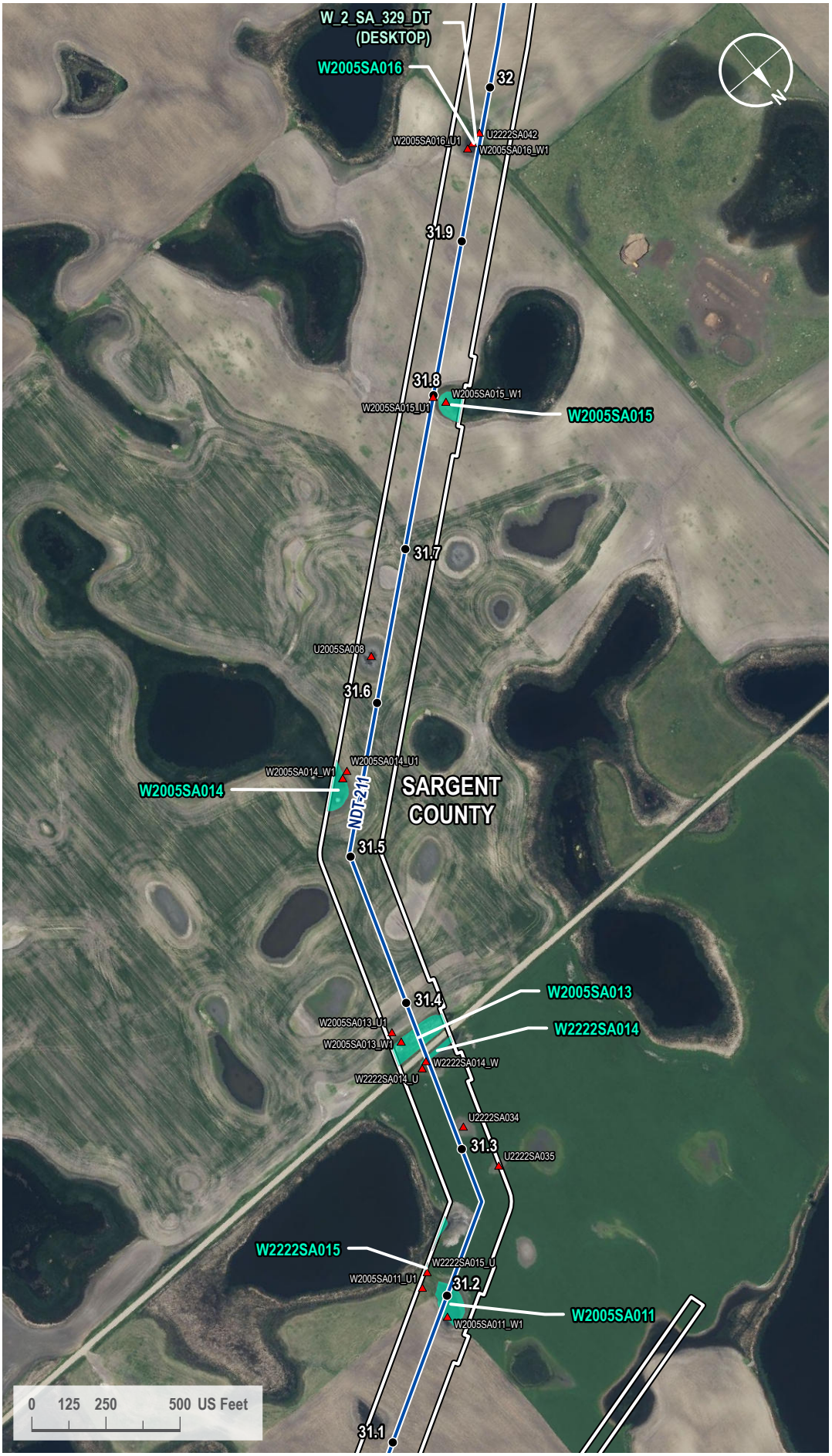

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
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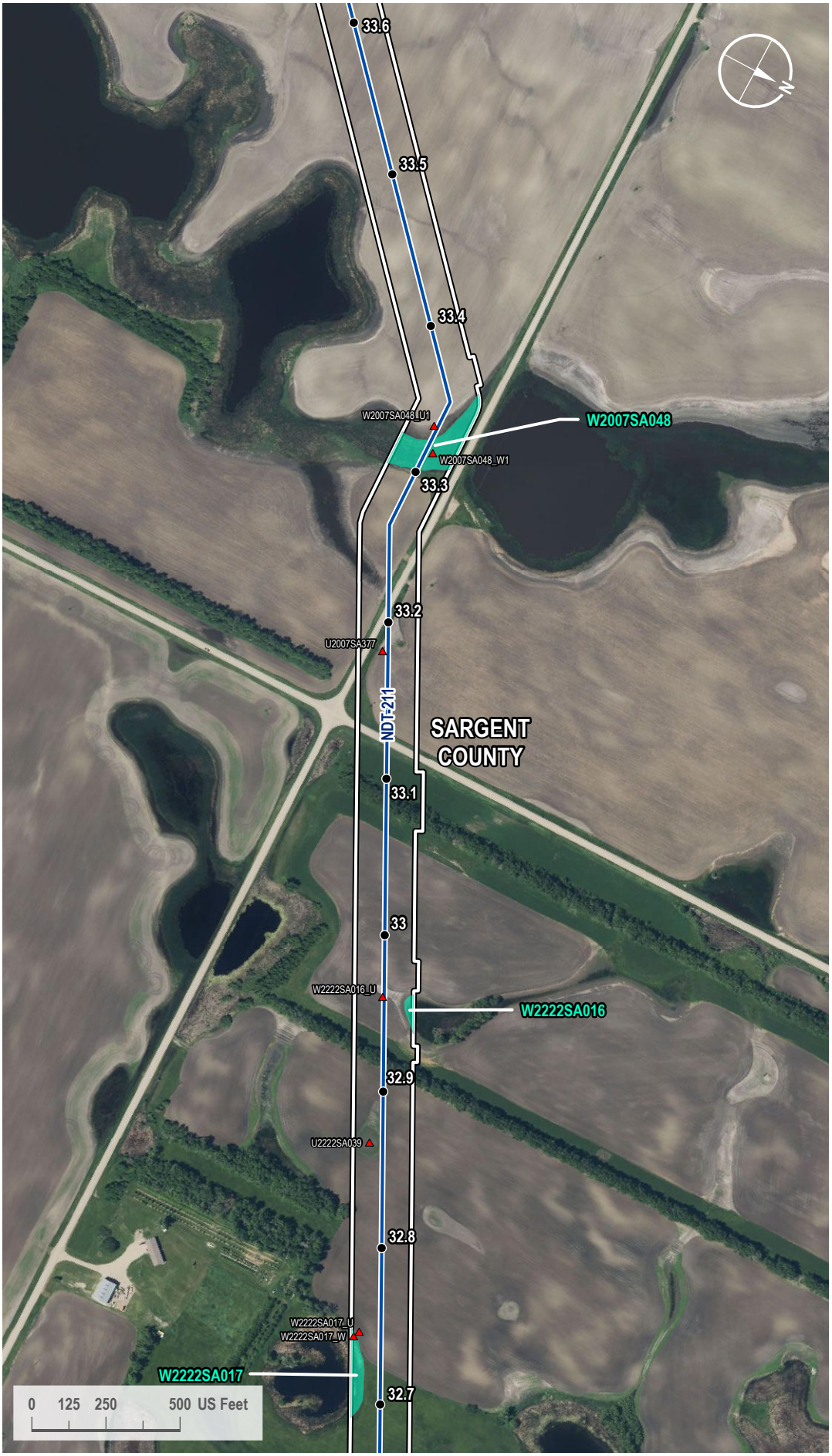

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LEGEND

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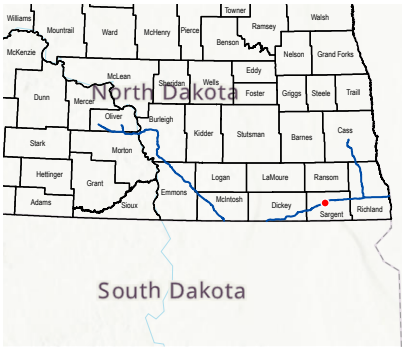

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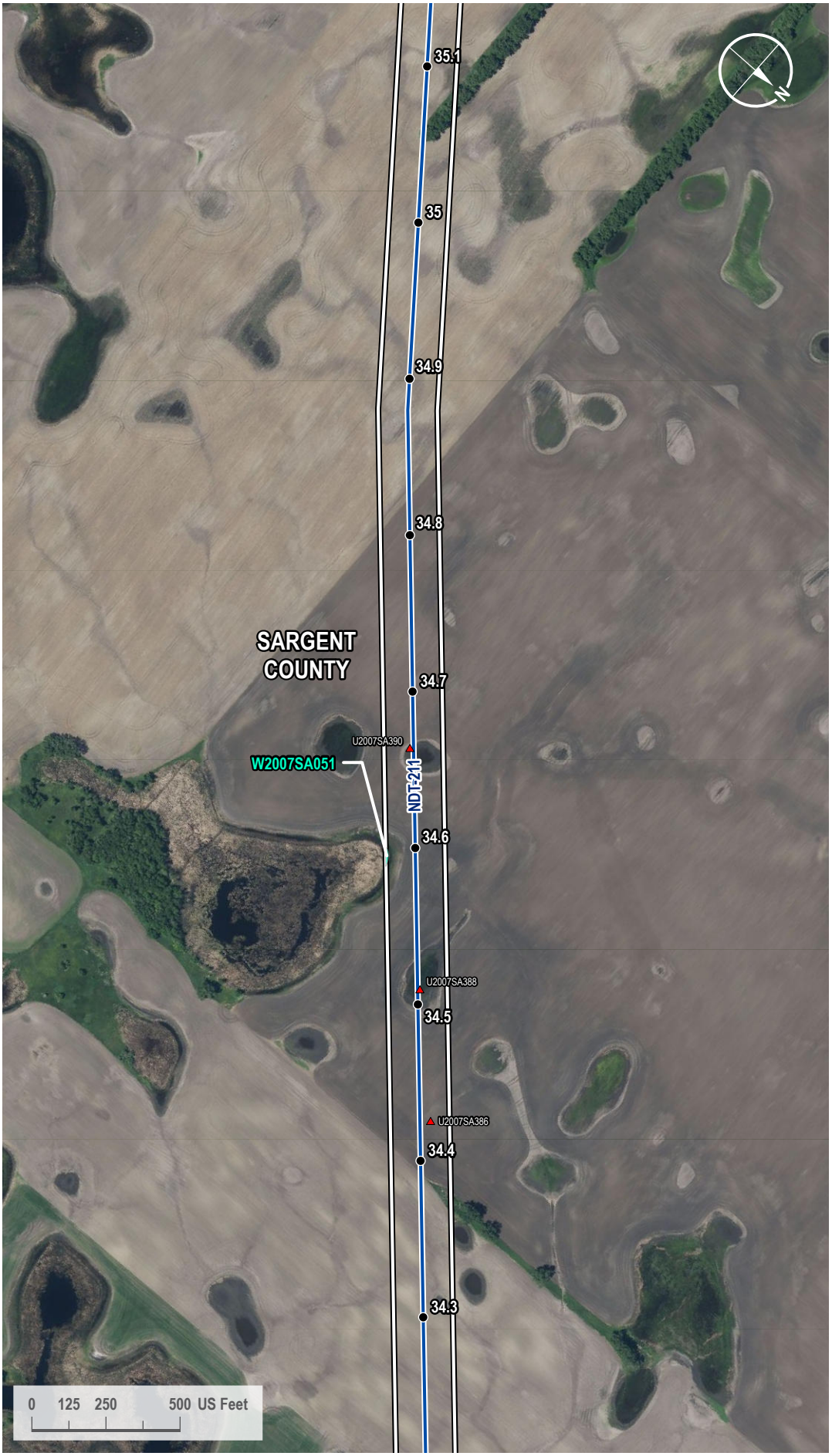

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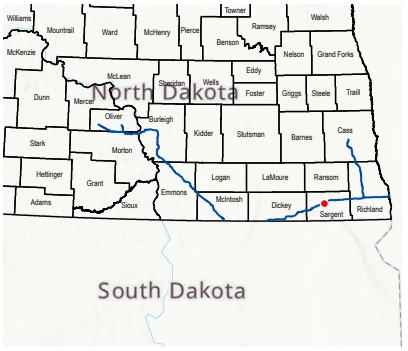

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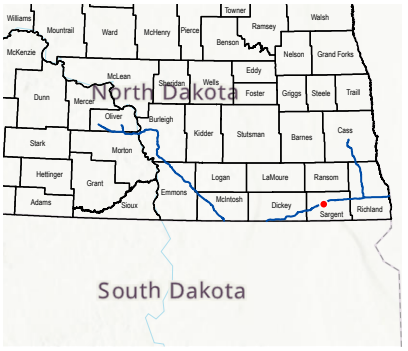

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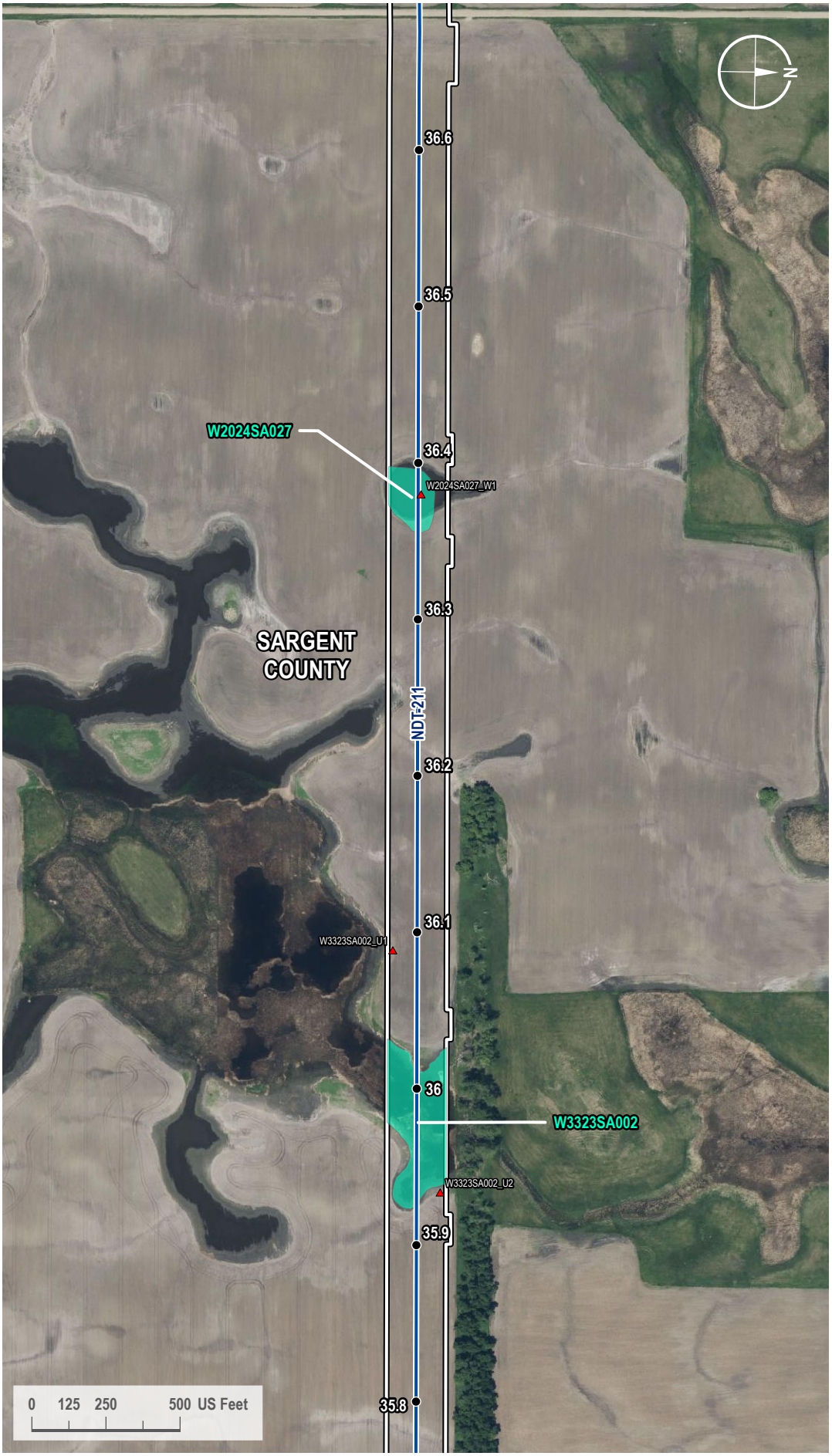

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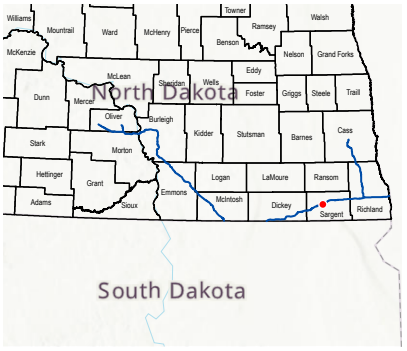

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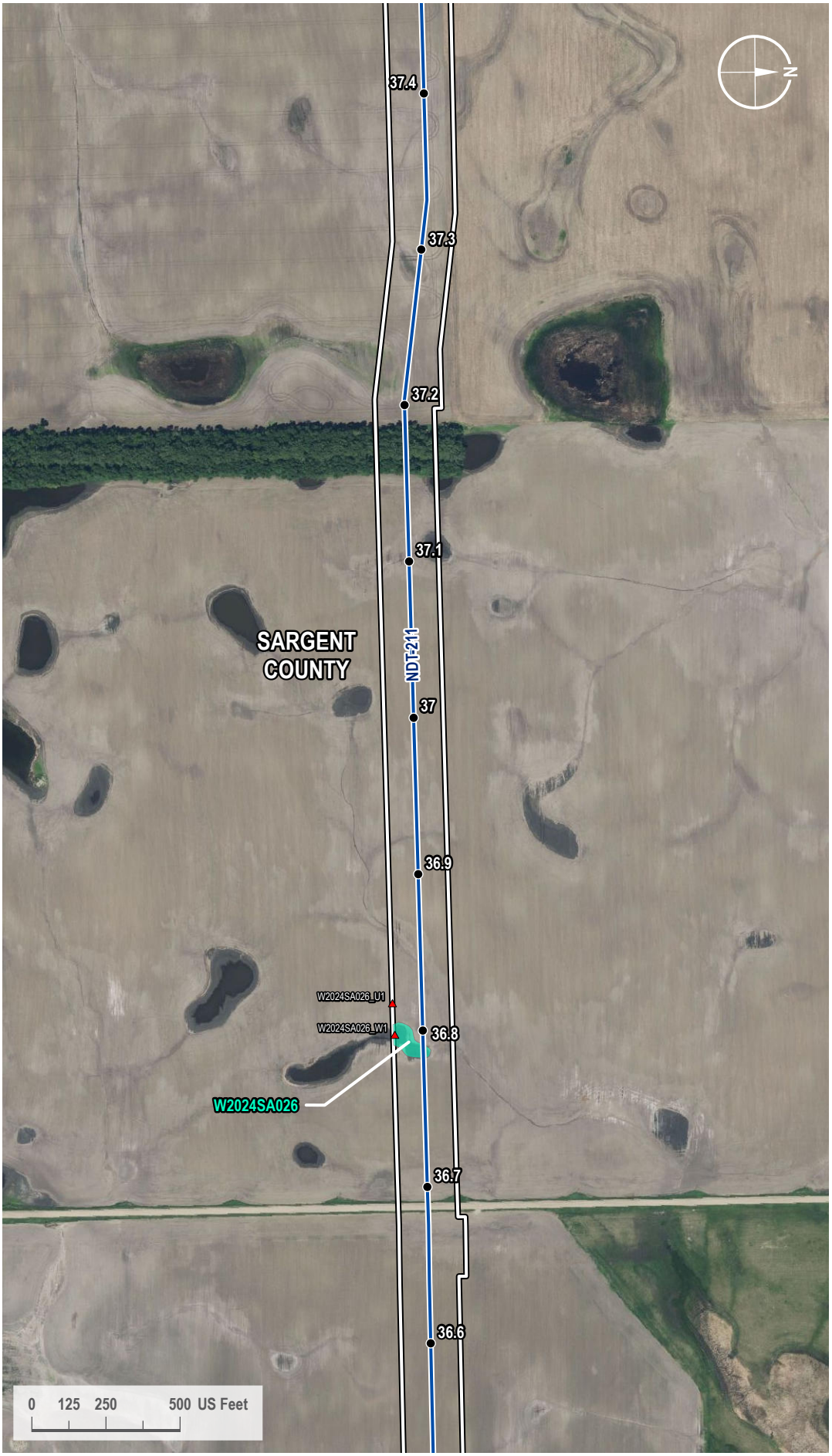

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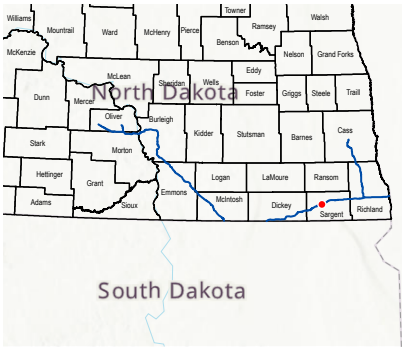

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
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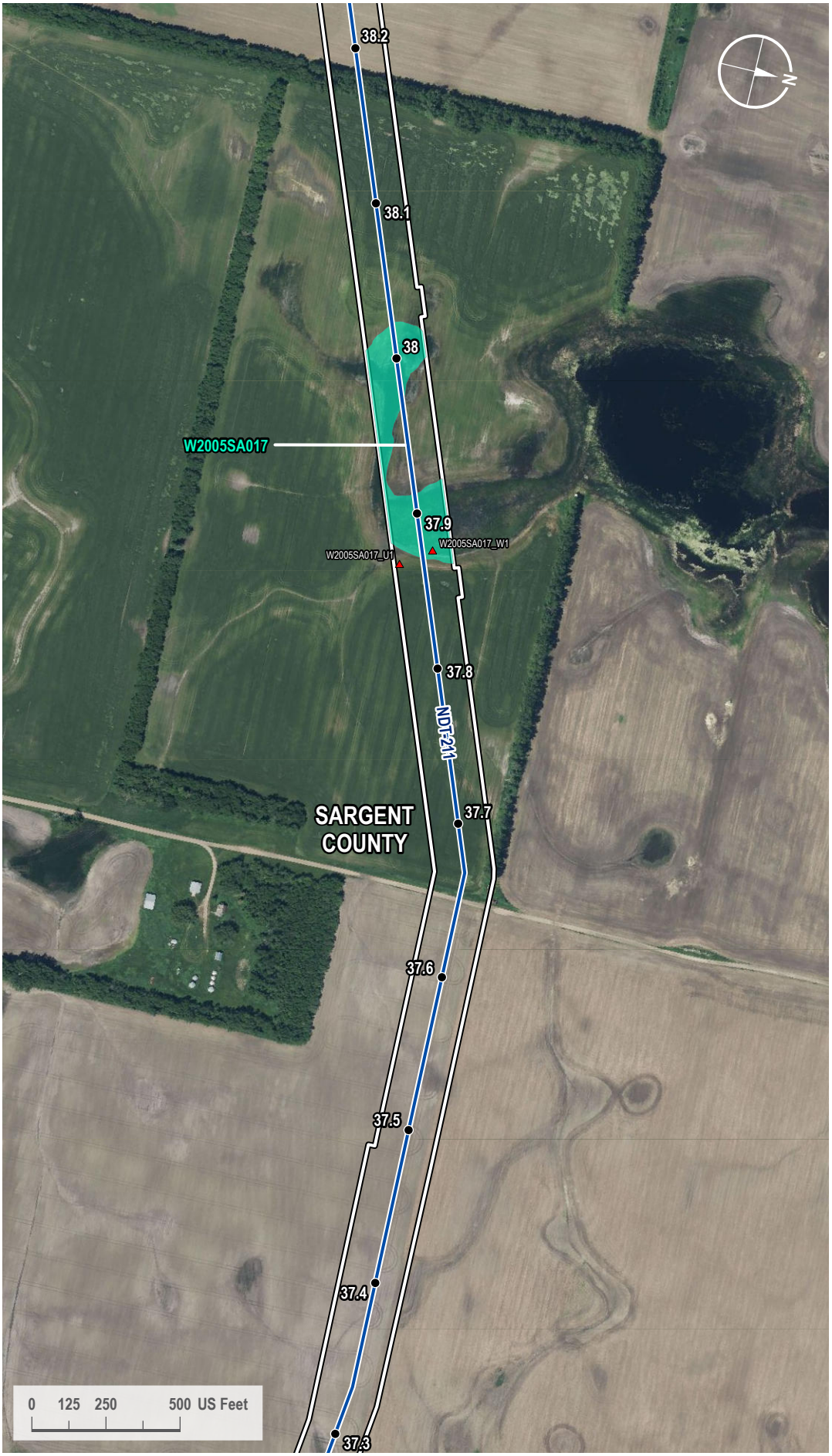

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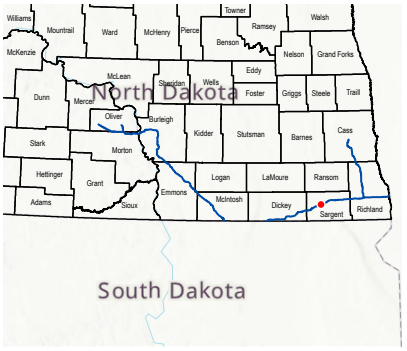

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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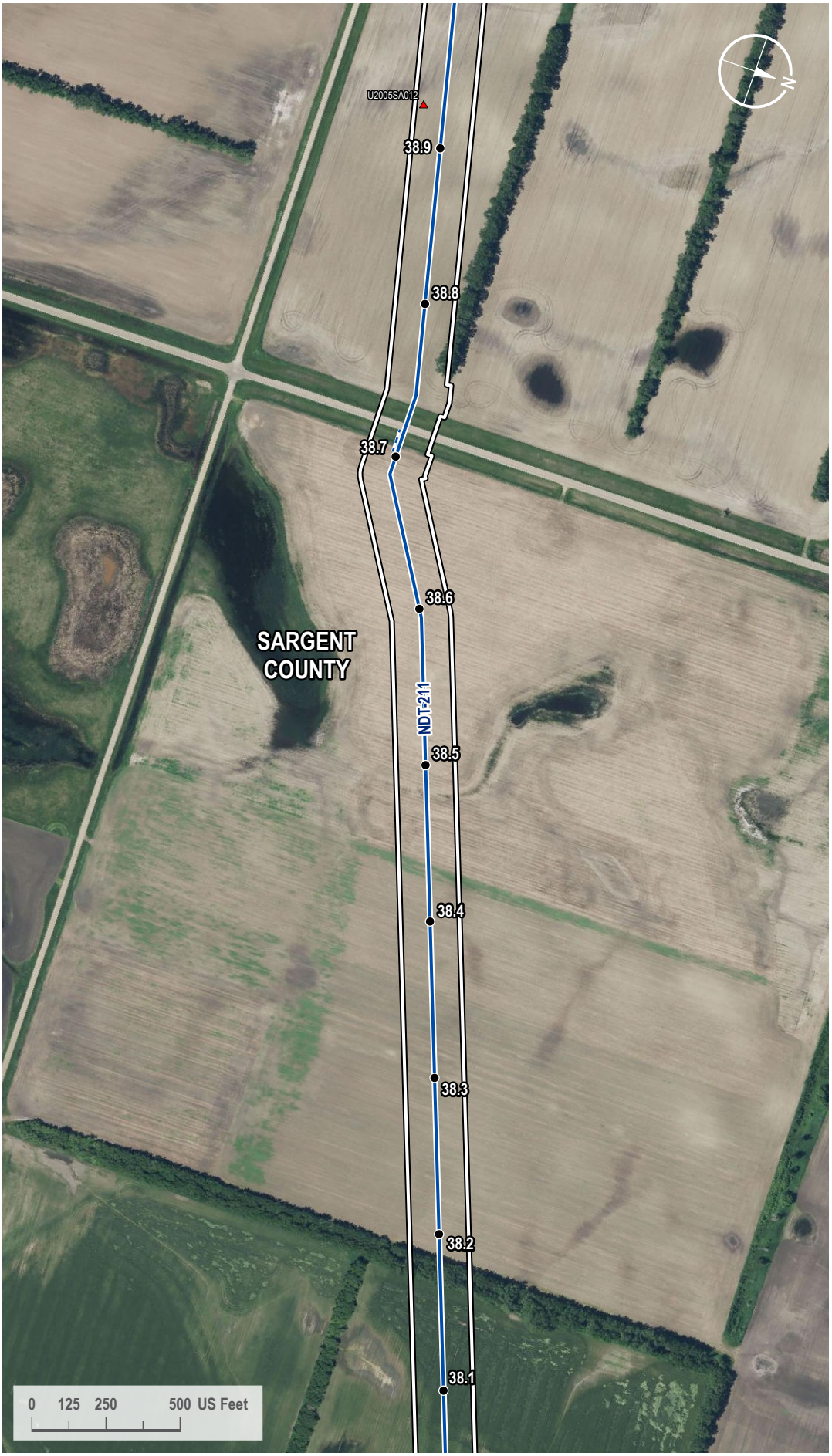

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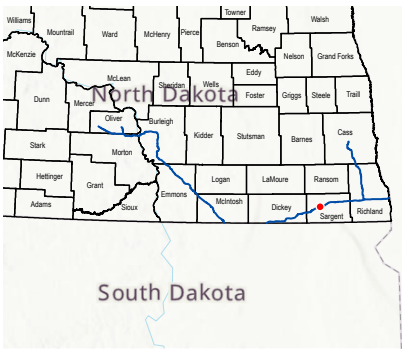

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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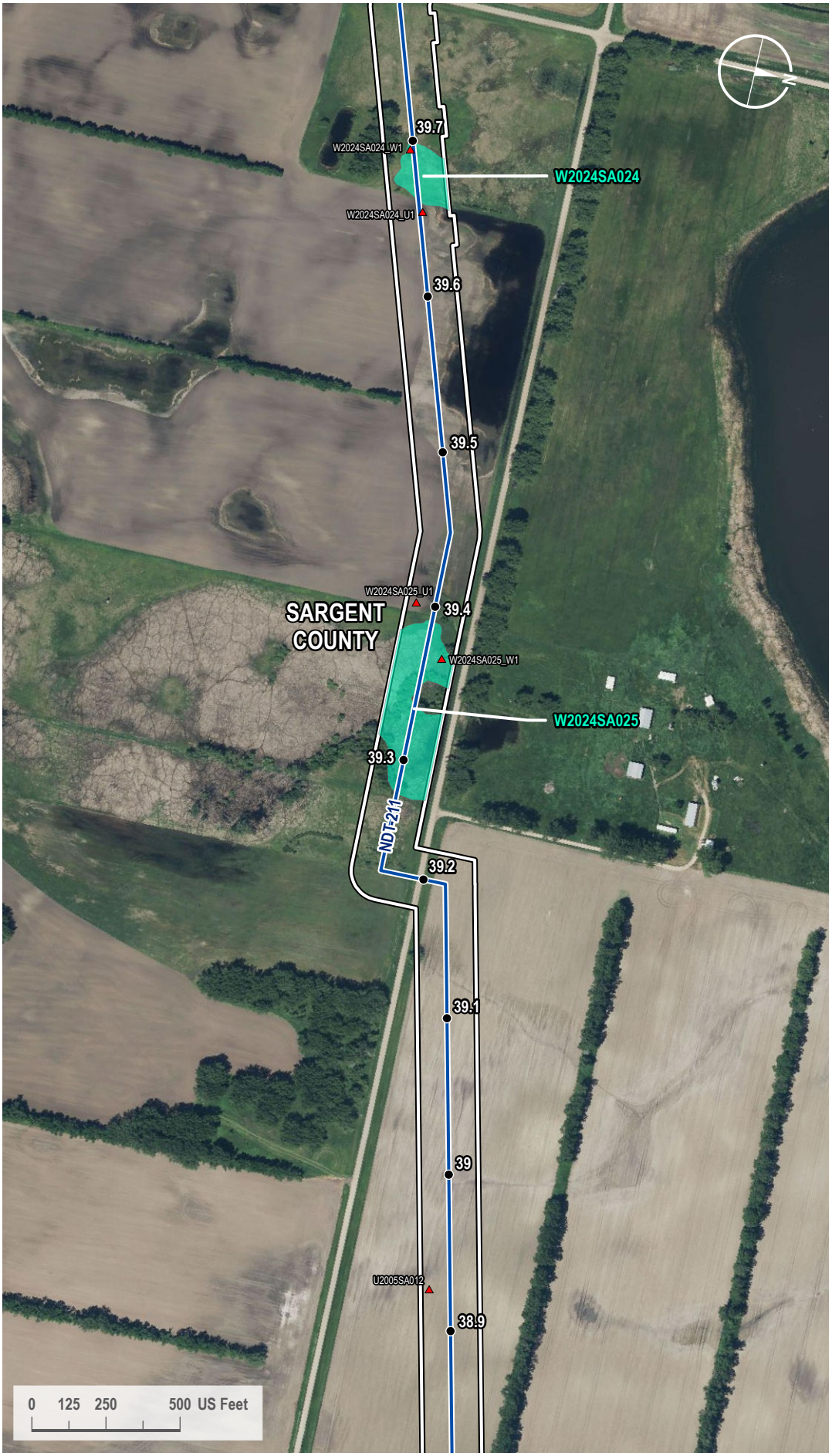

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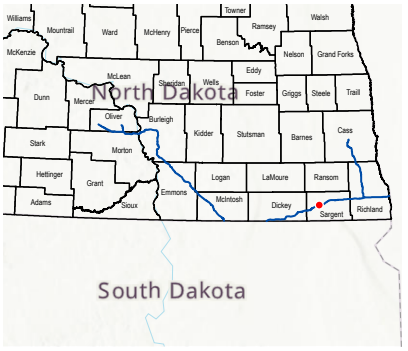

LEGEND

- Milepost
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- Proposed Route
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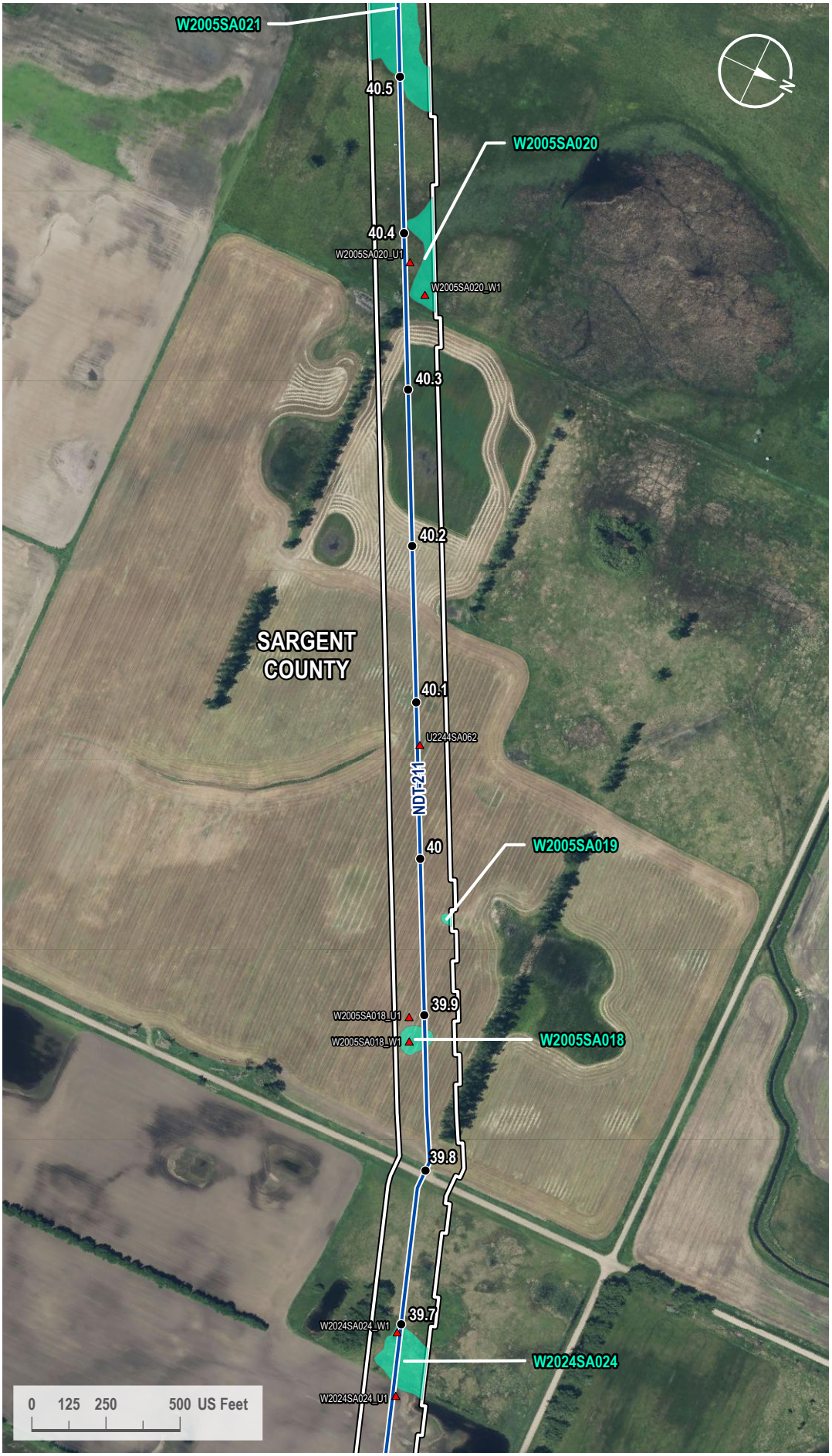

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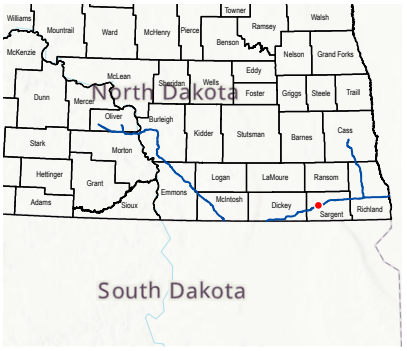

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- Milepost
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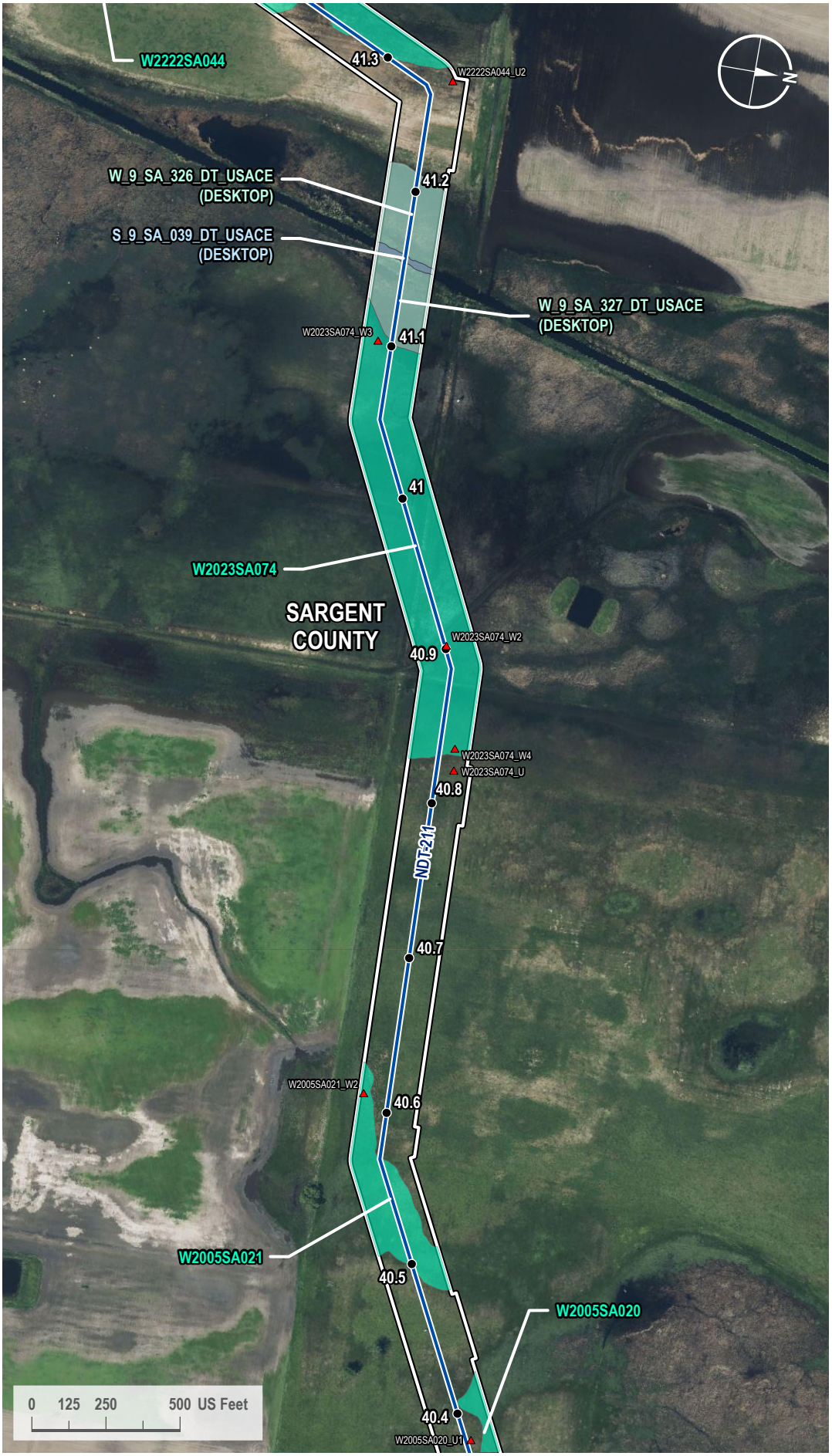

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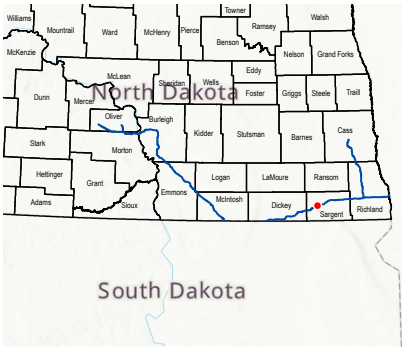

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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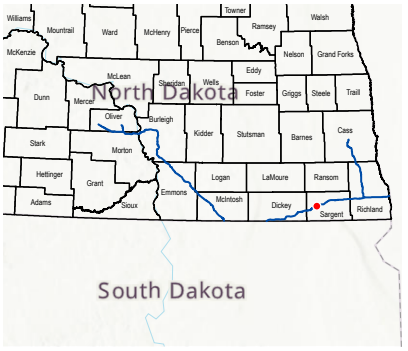
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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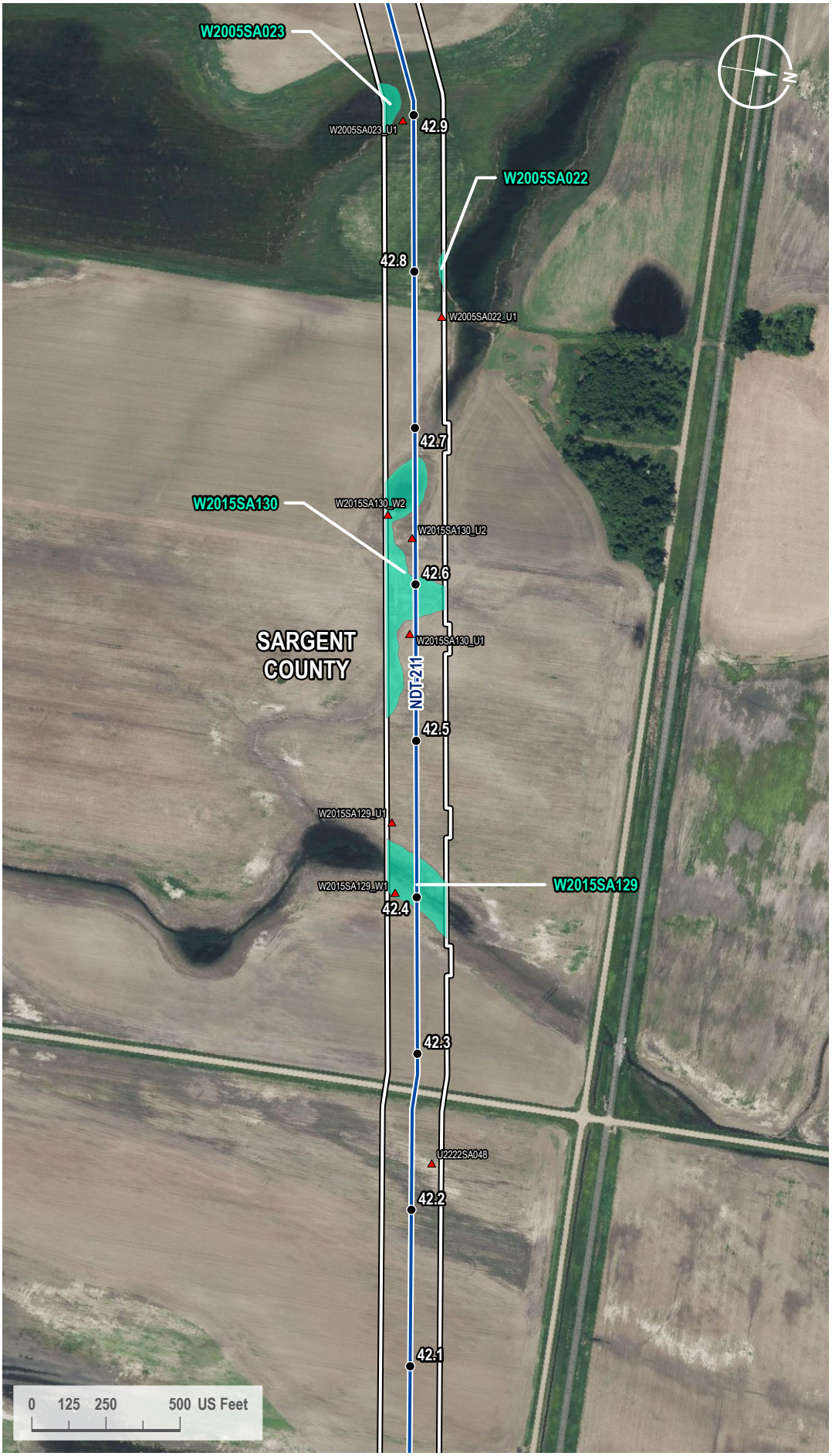

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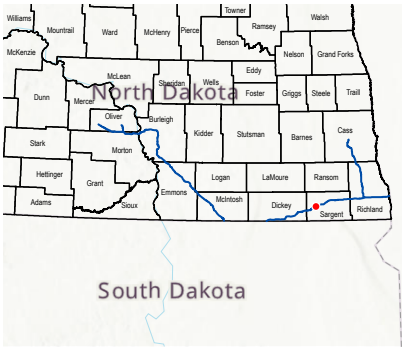

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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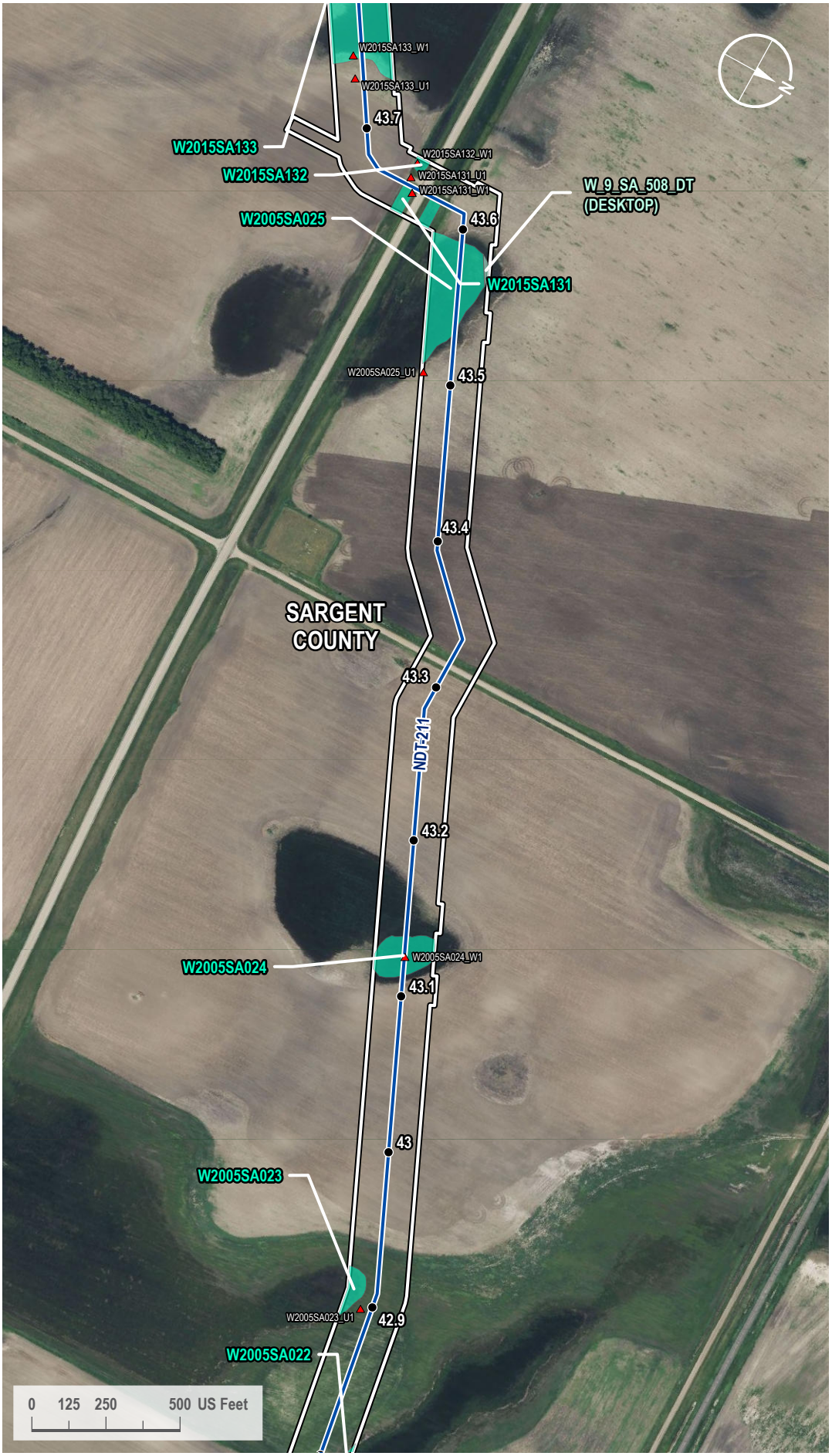

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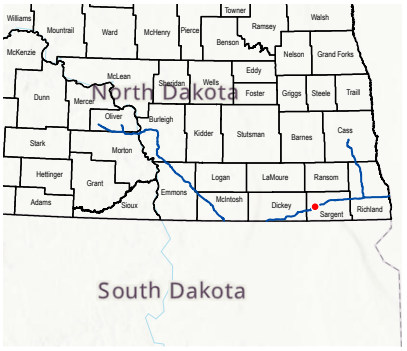

LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
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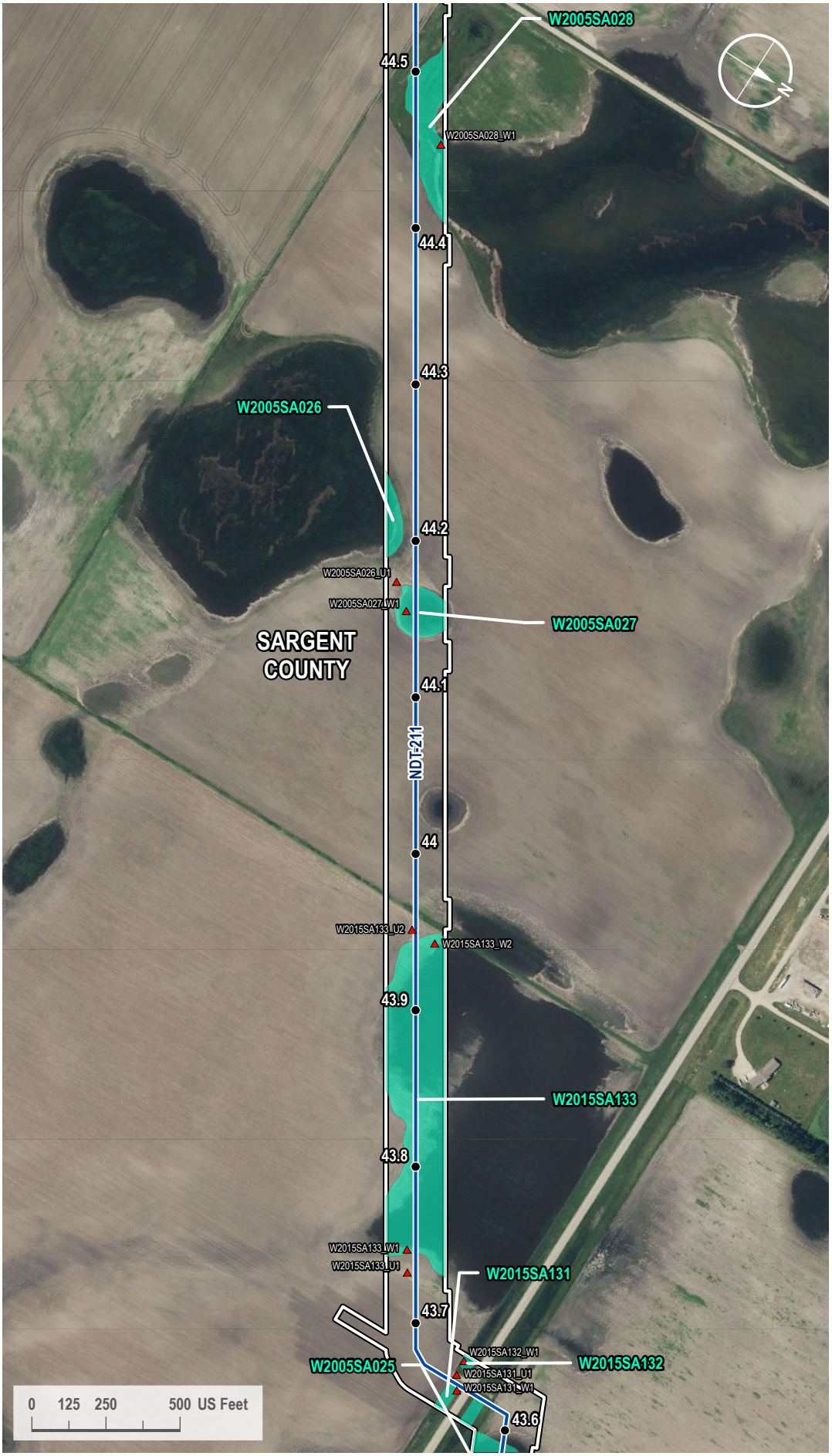

VICINITY MAP



LEGEND

- Milepost
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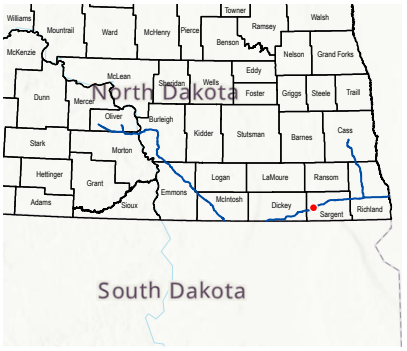

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- Milepost
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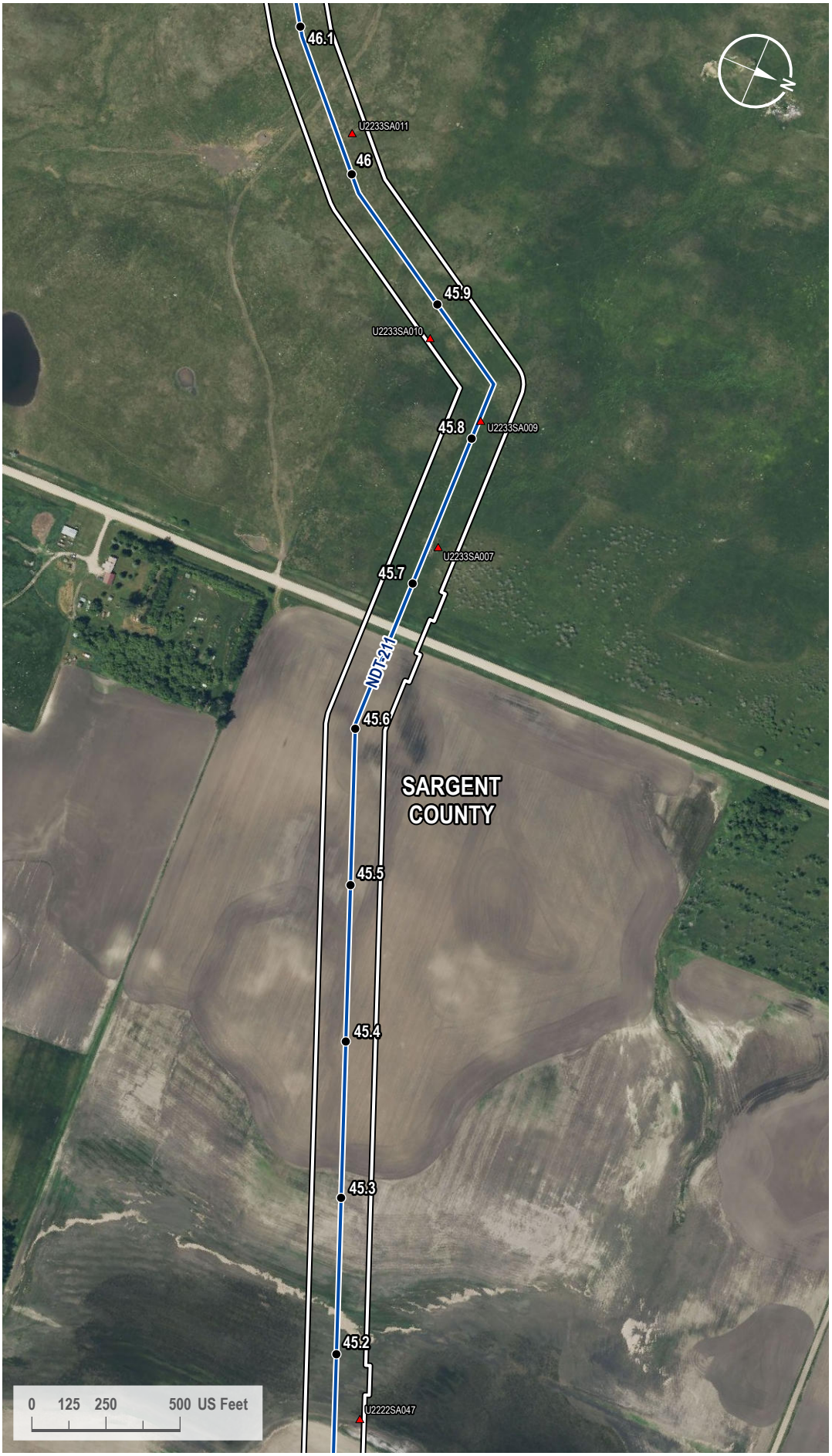

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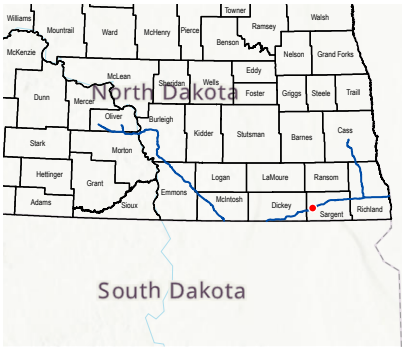

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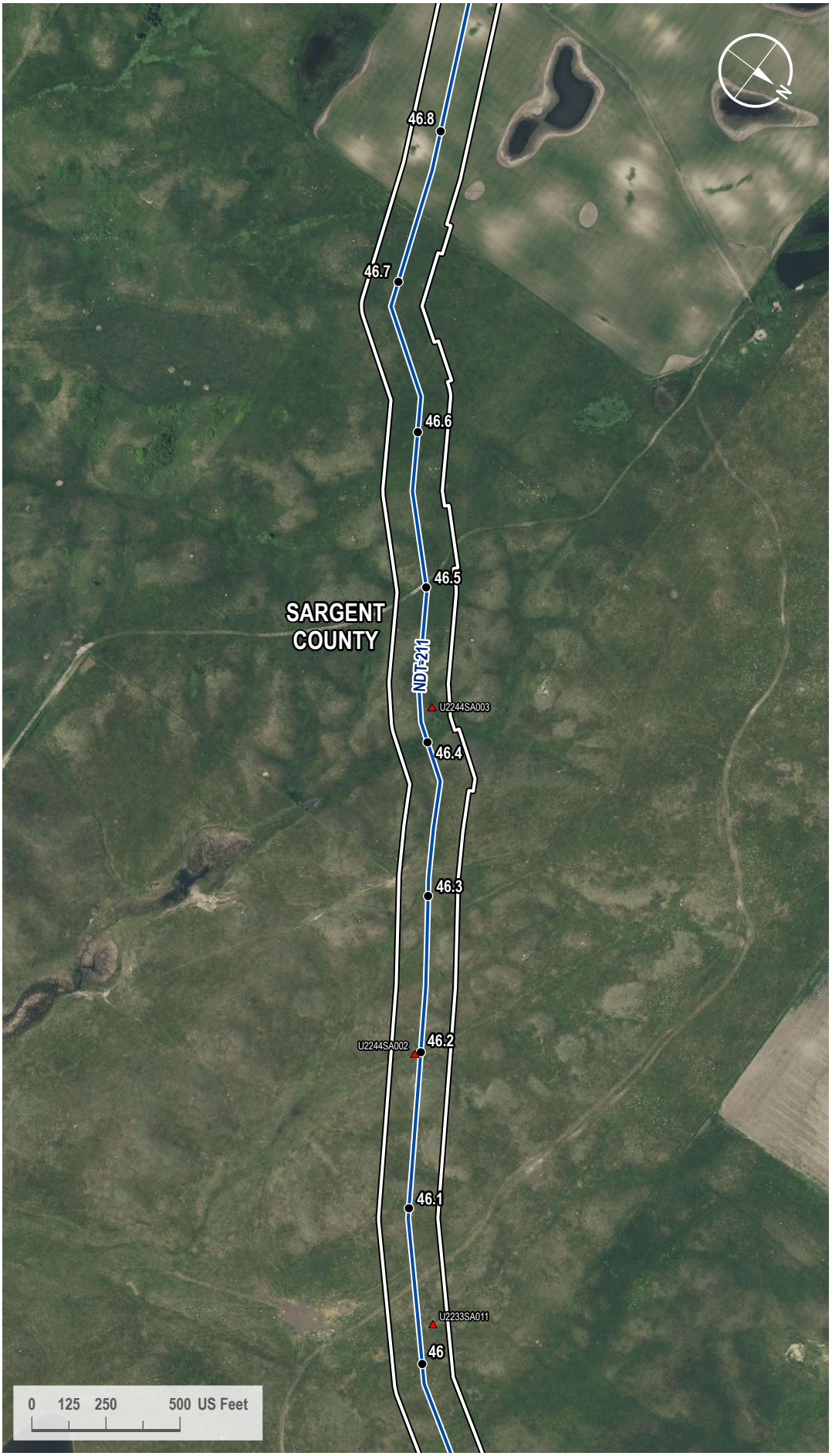

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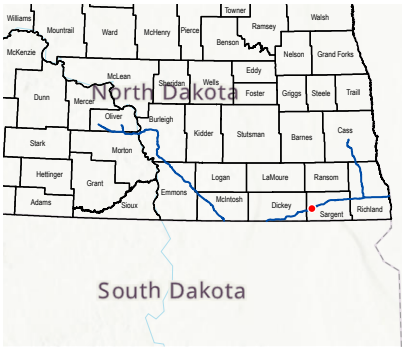

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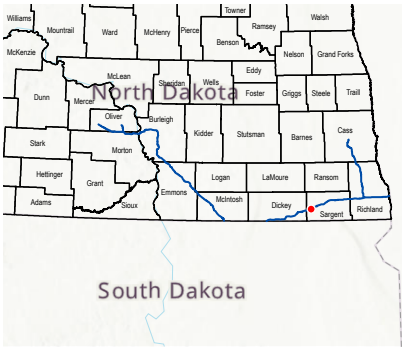

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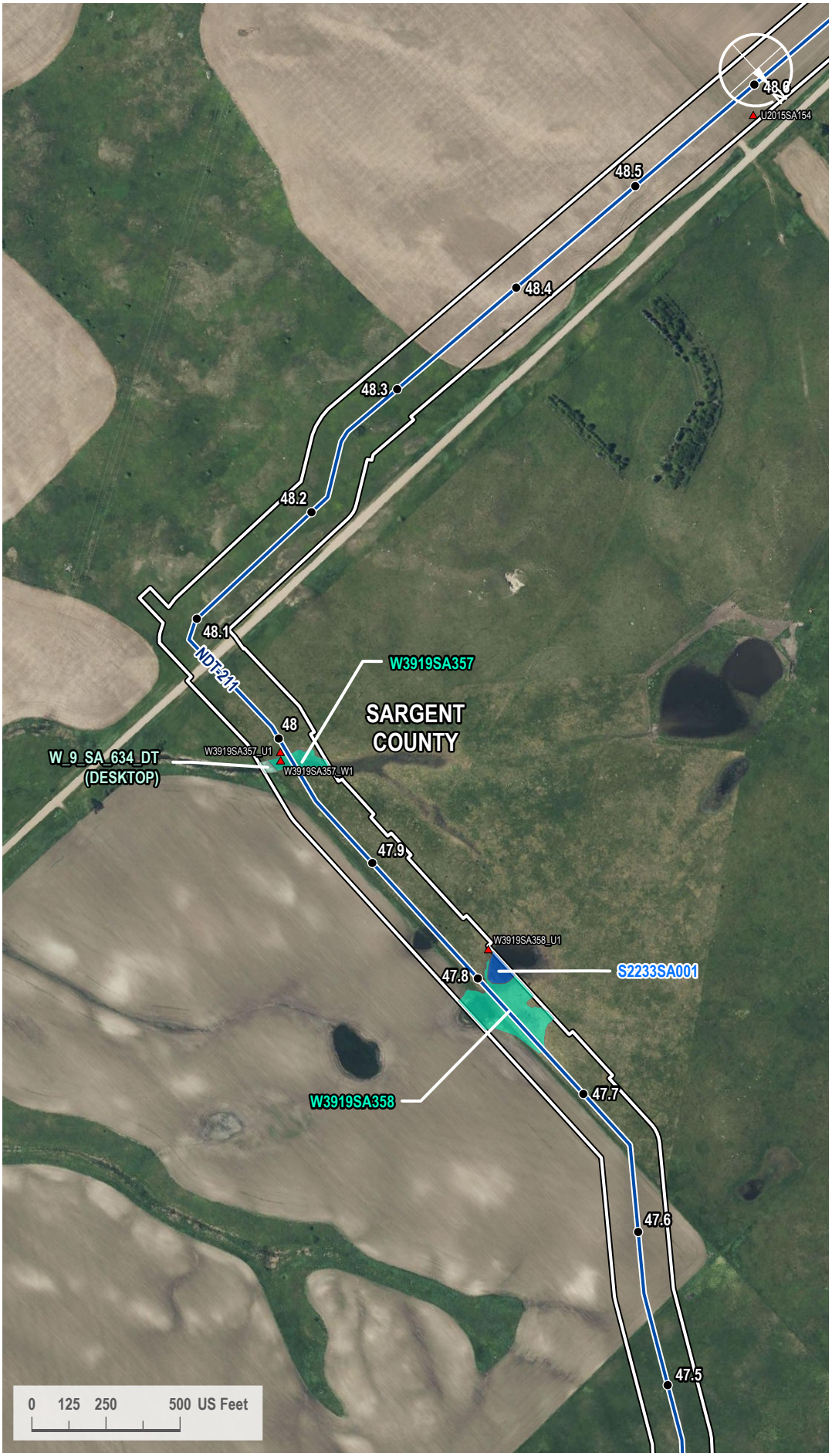

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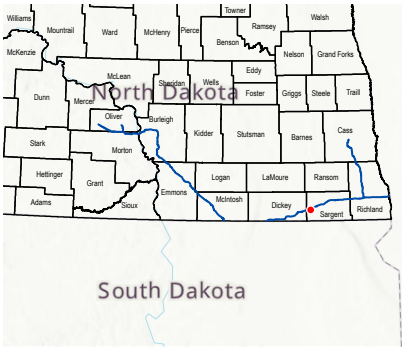

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- Milepost
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- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title: Aerial Map

Figure Number: Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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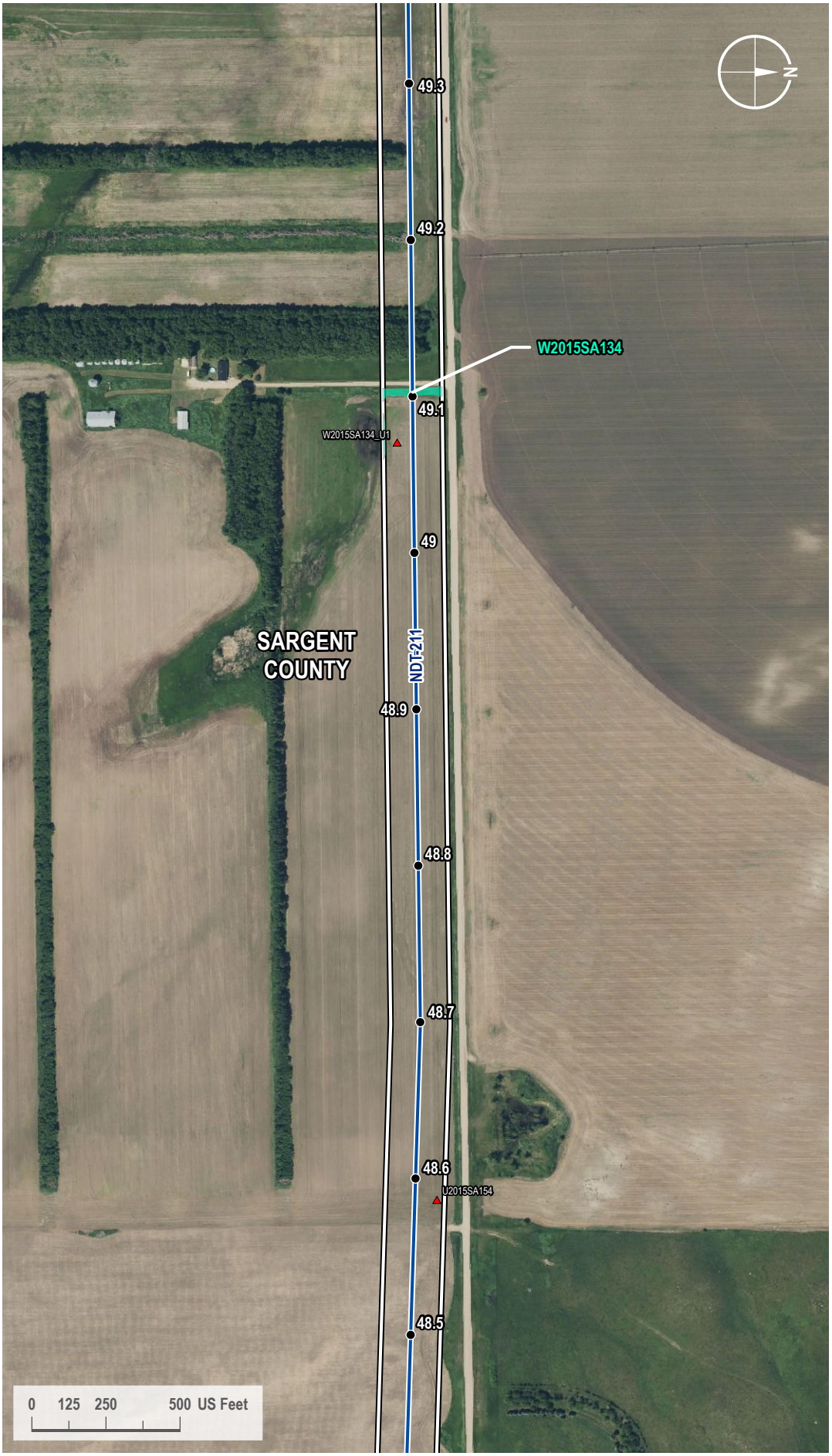

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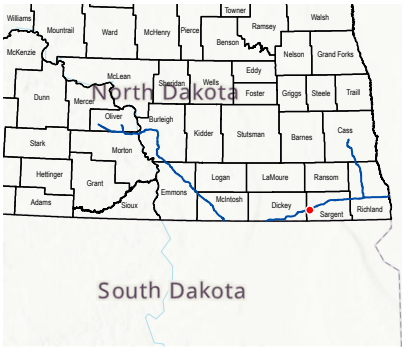

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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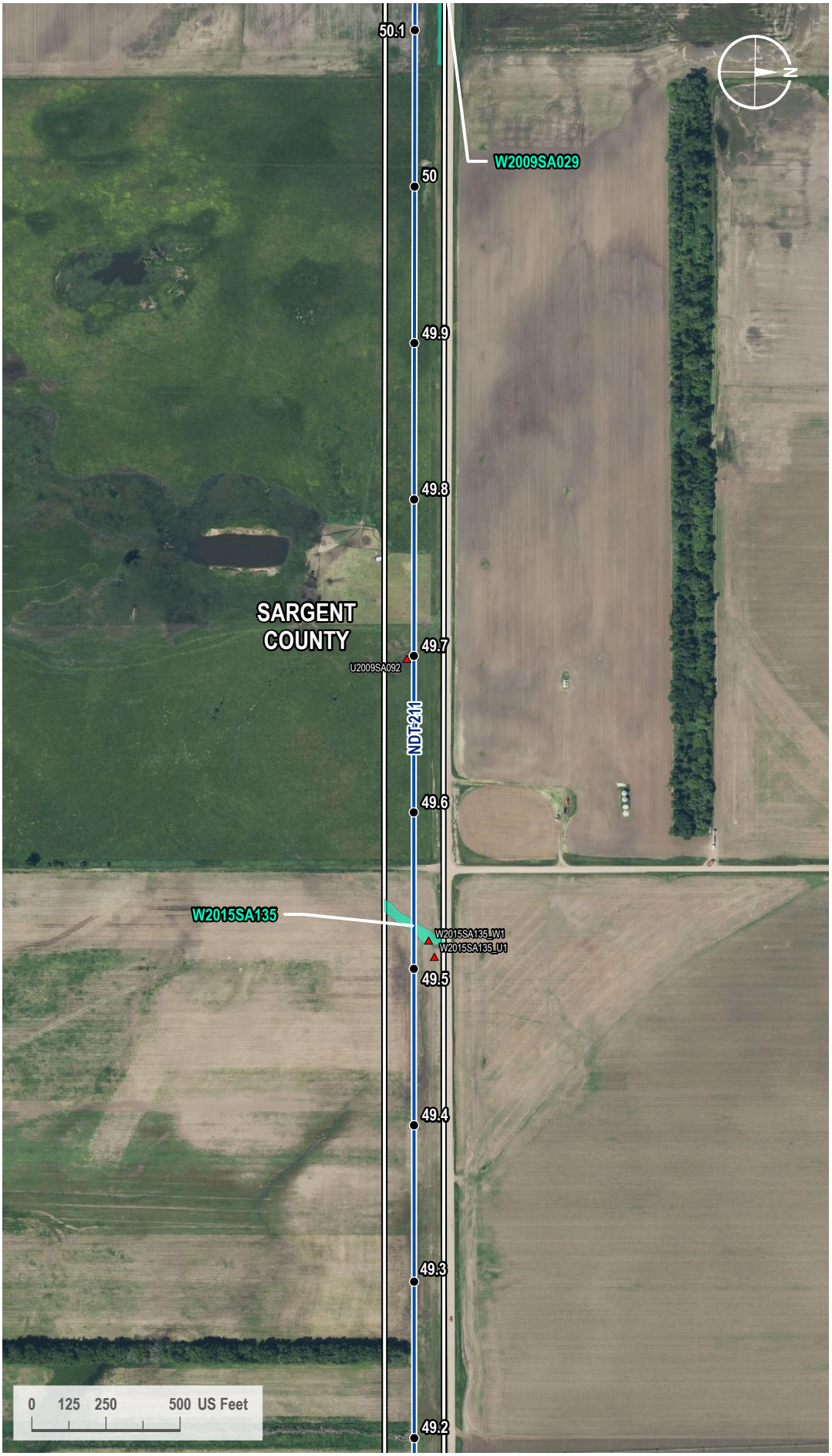

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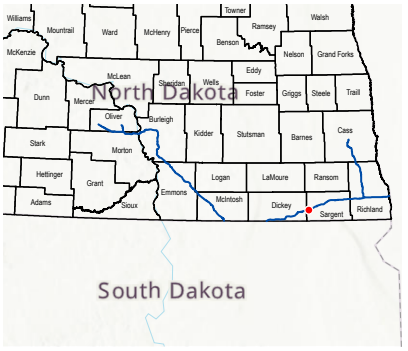

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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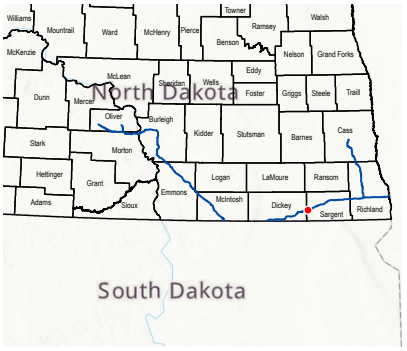

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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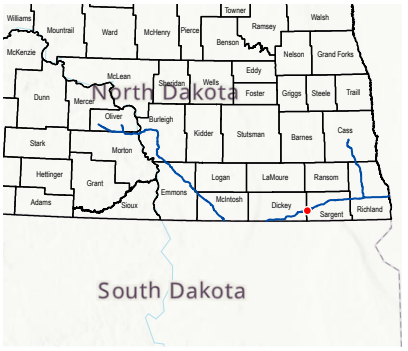

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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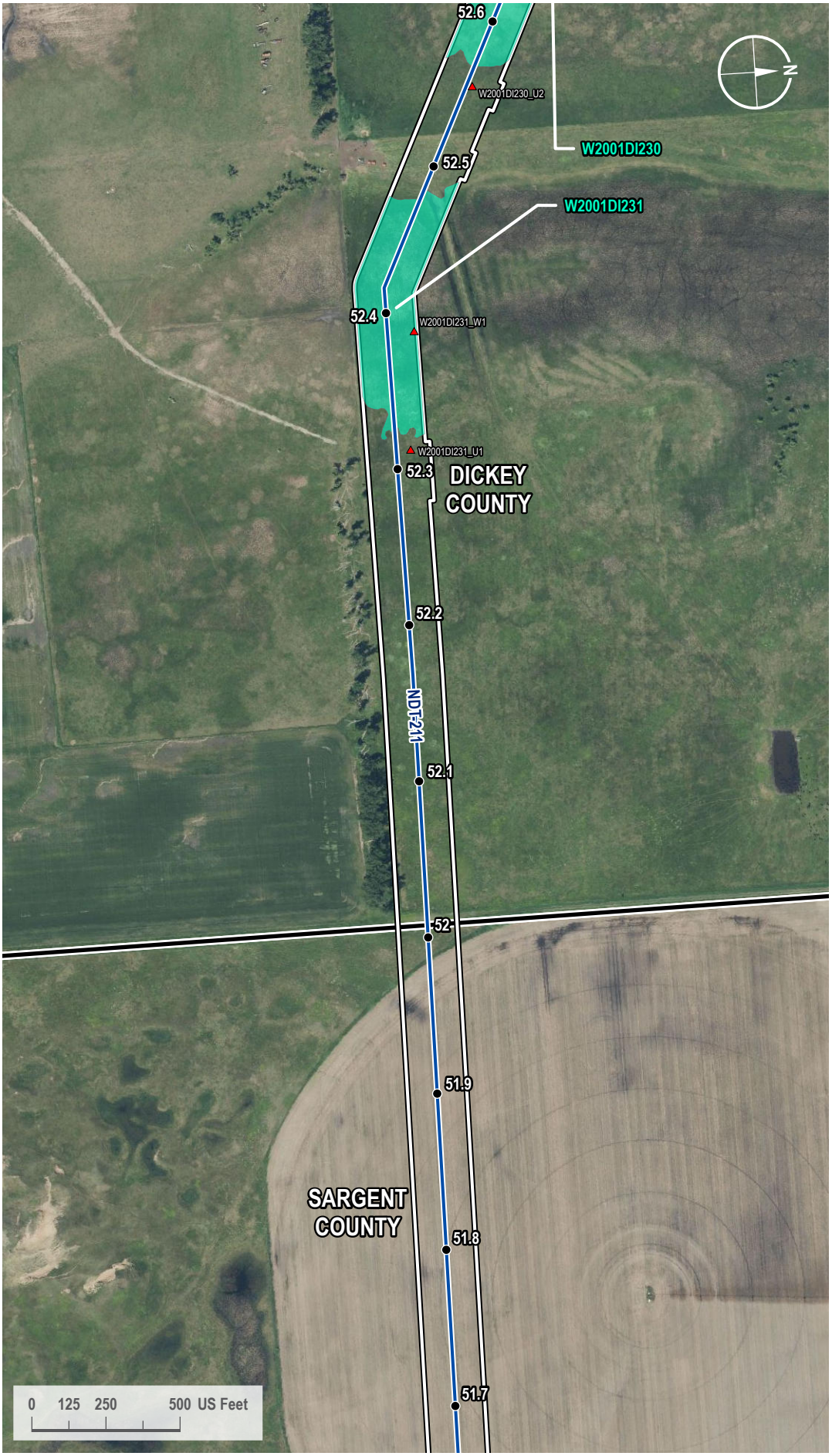

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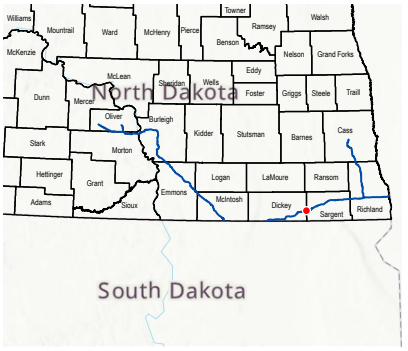

LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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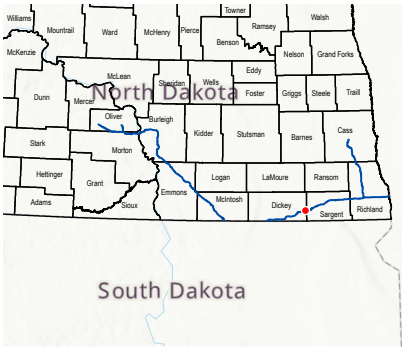

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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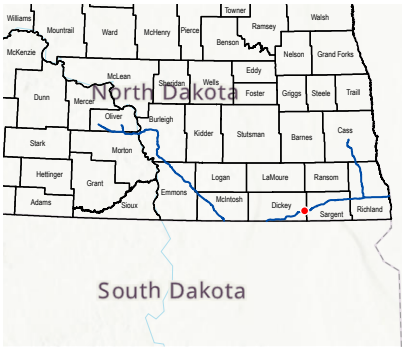

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



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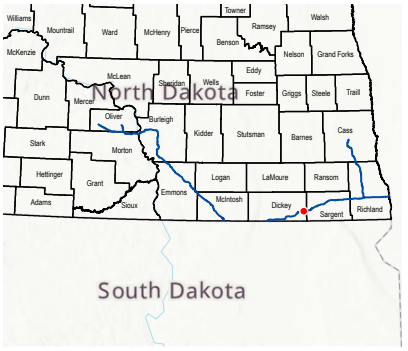

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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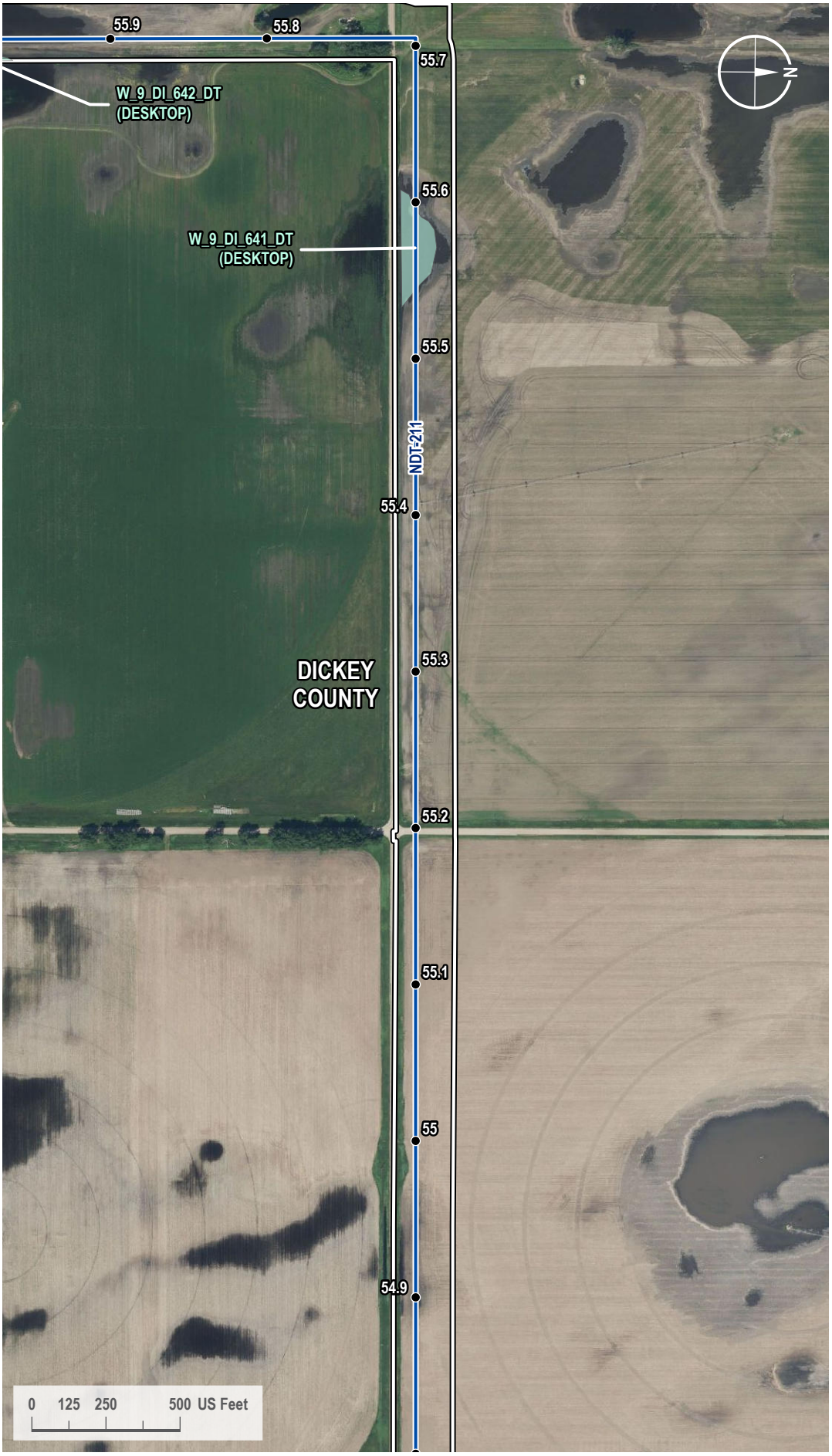

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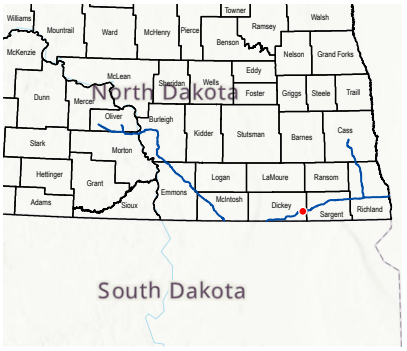

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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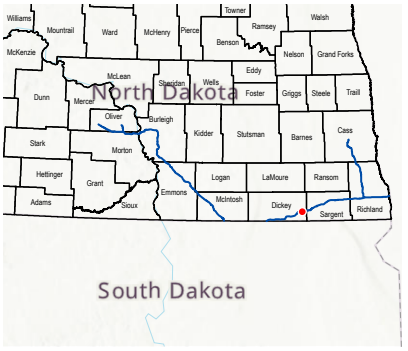

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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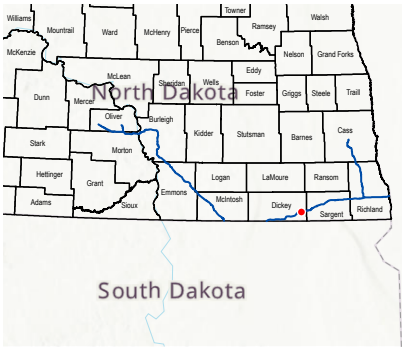

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Desktop)

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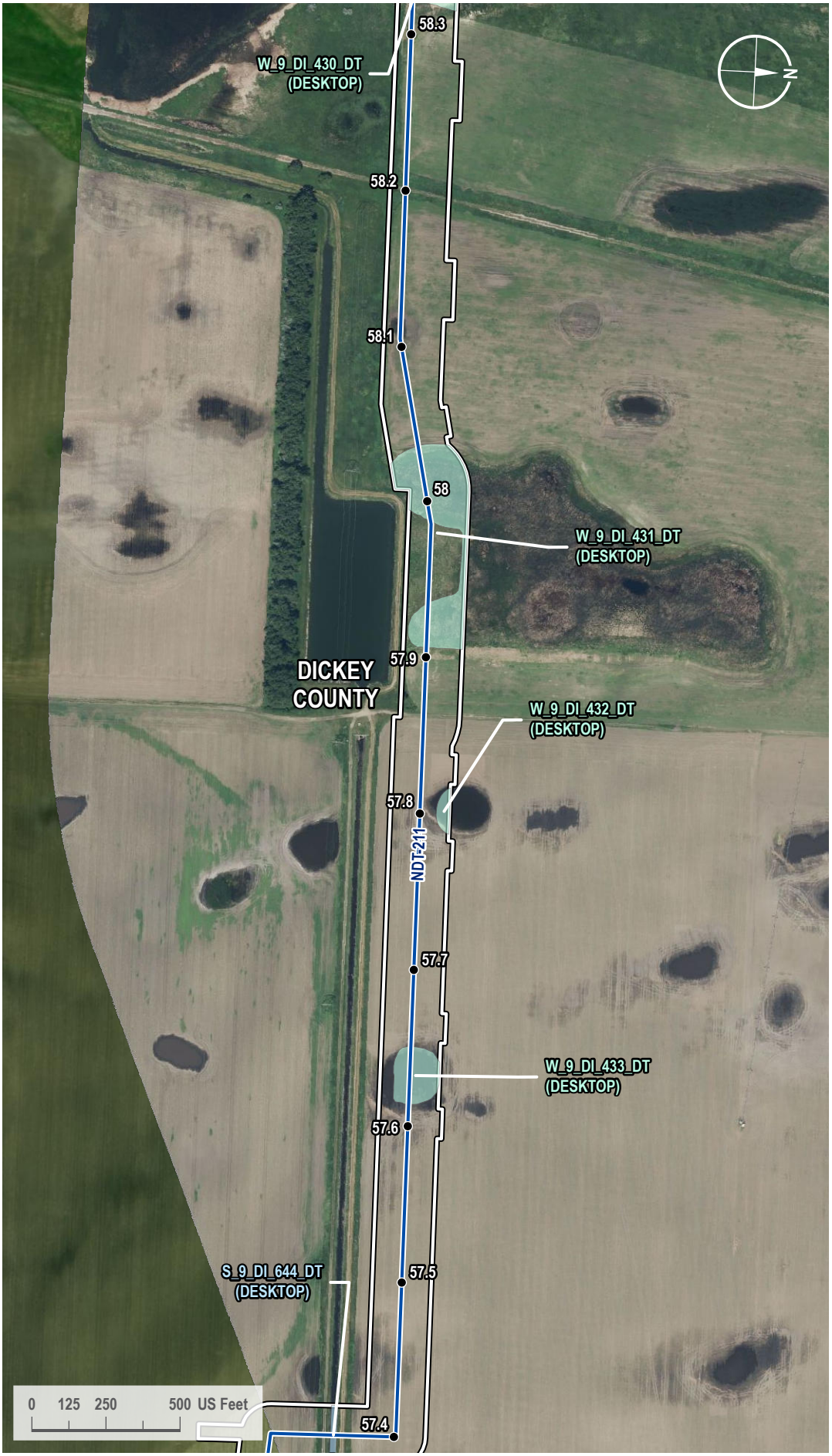

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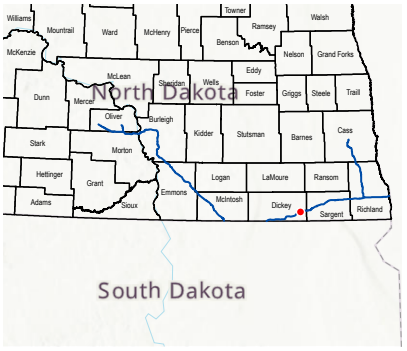

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Desktop)

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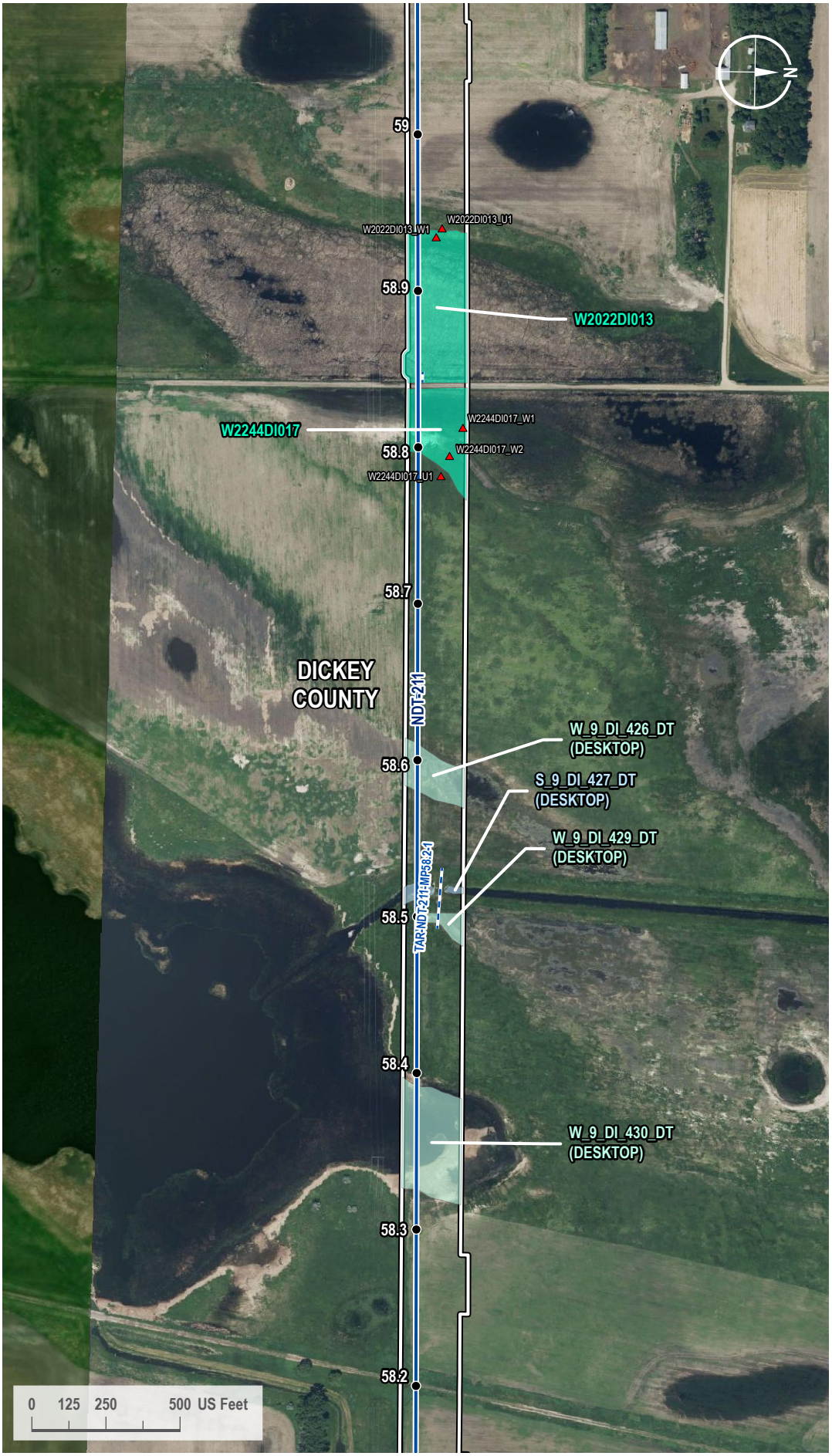

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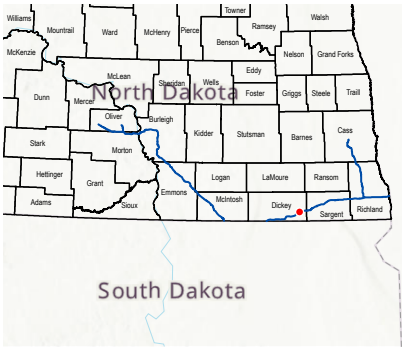

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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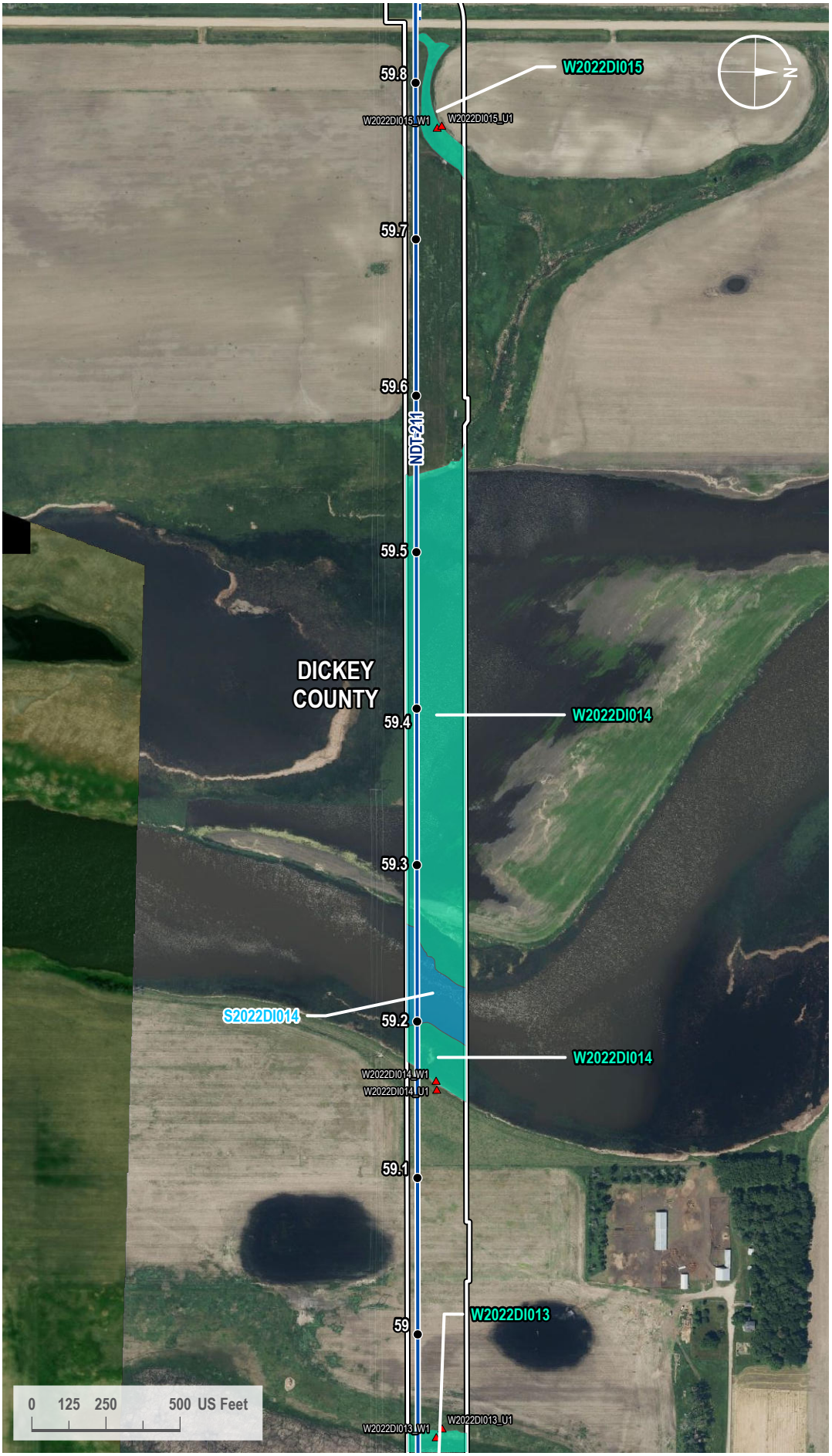

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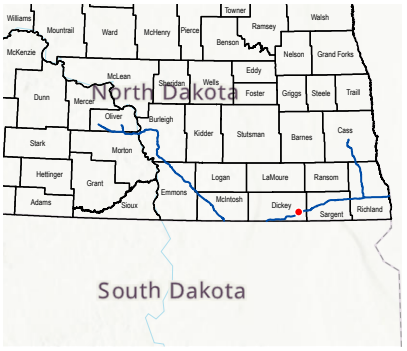

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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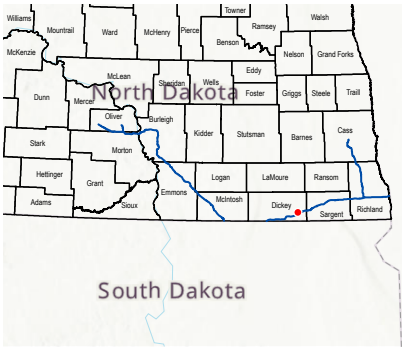

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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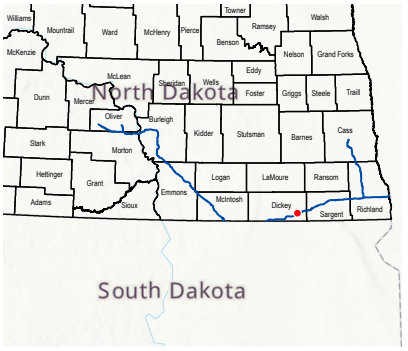
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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AERIAL MAP



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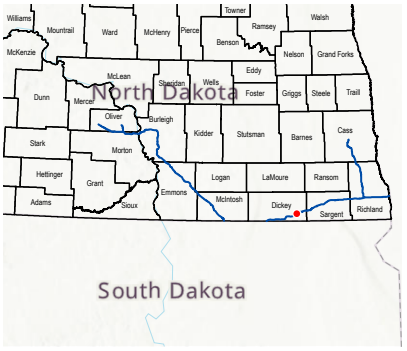

LEGEND

- Milepost
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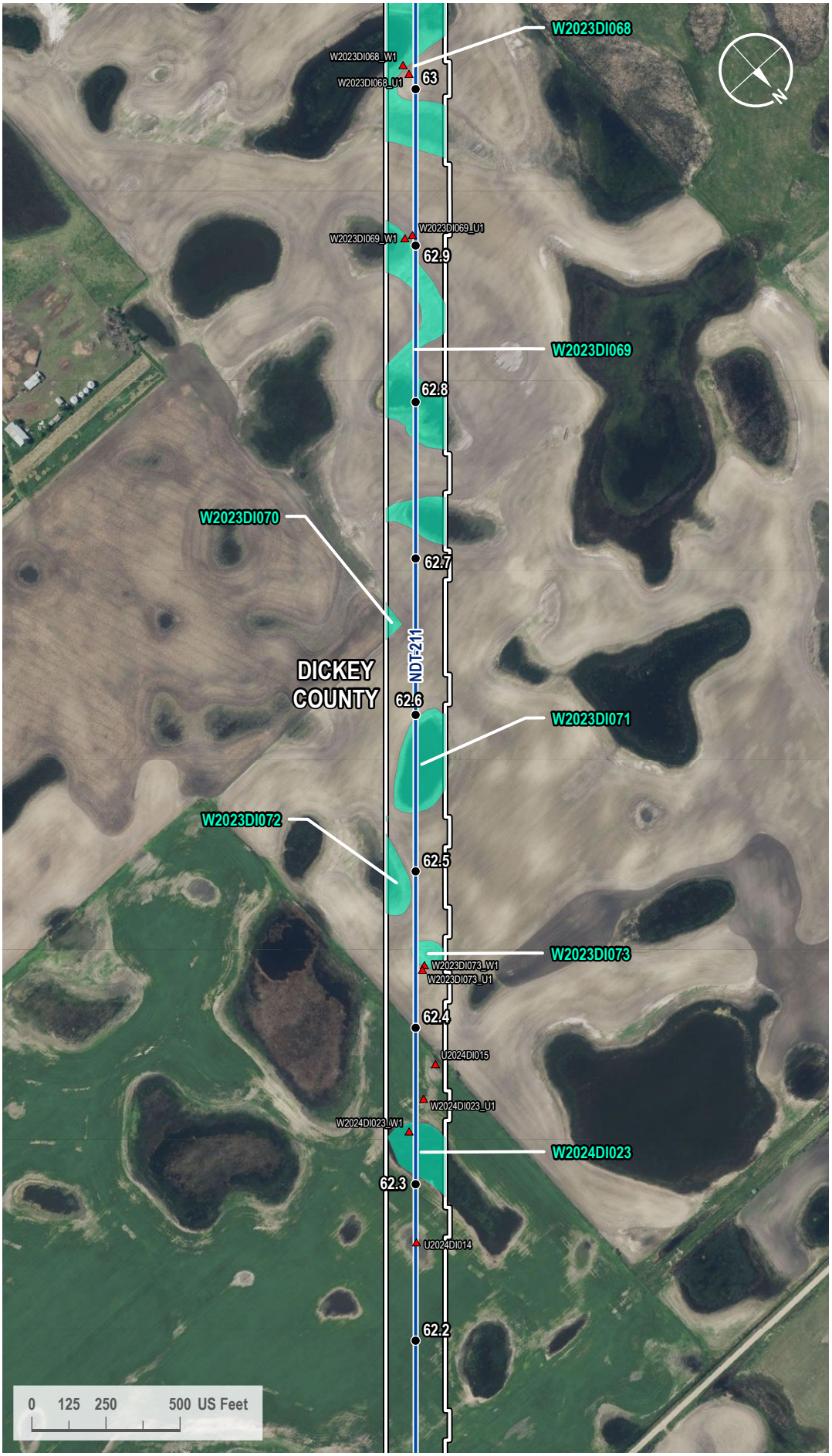

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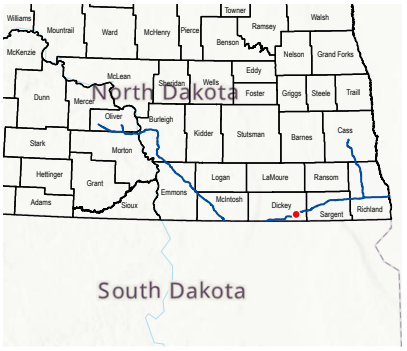

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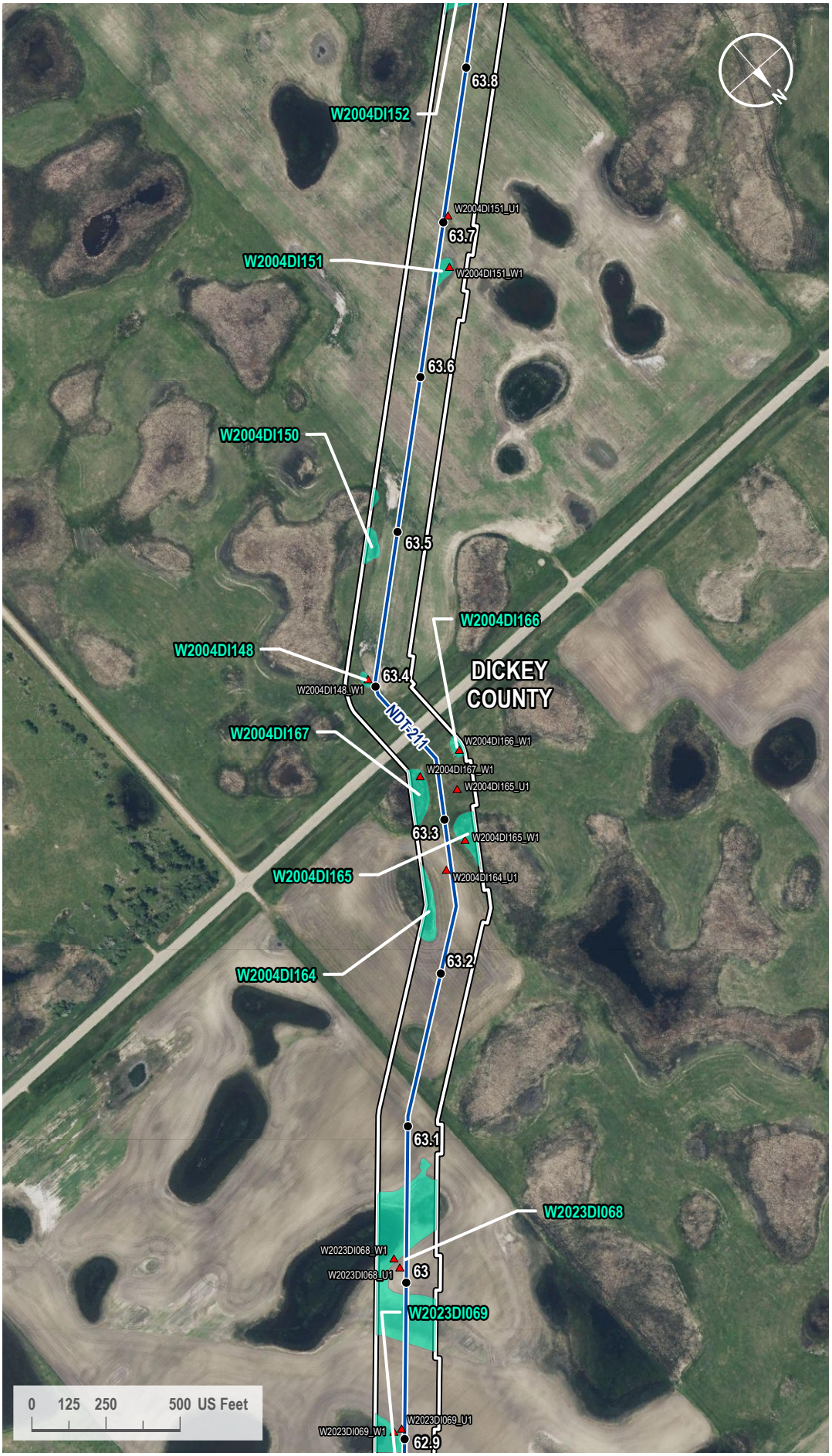

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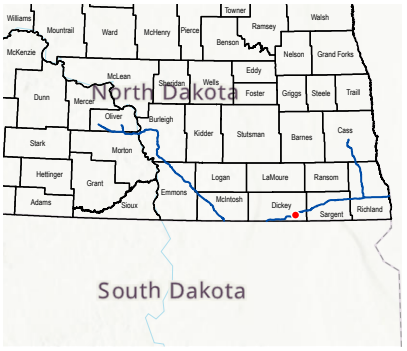

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- Milepost
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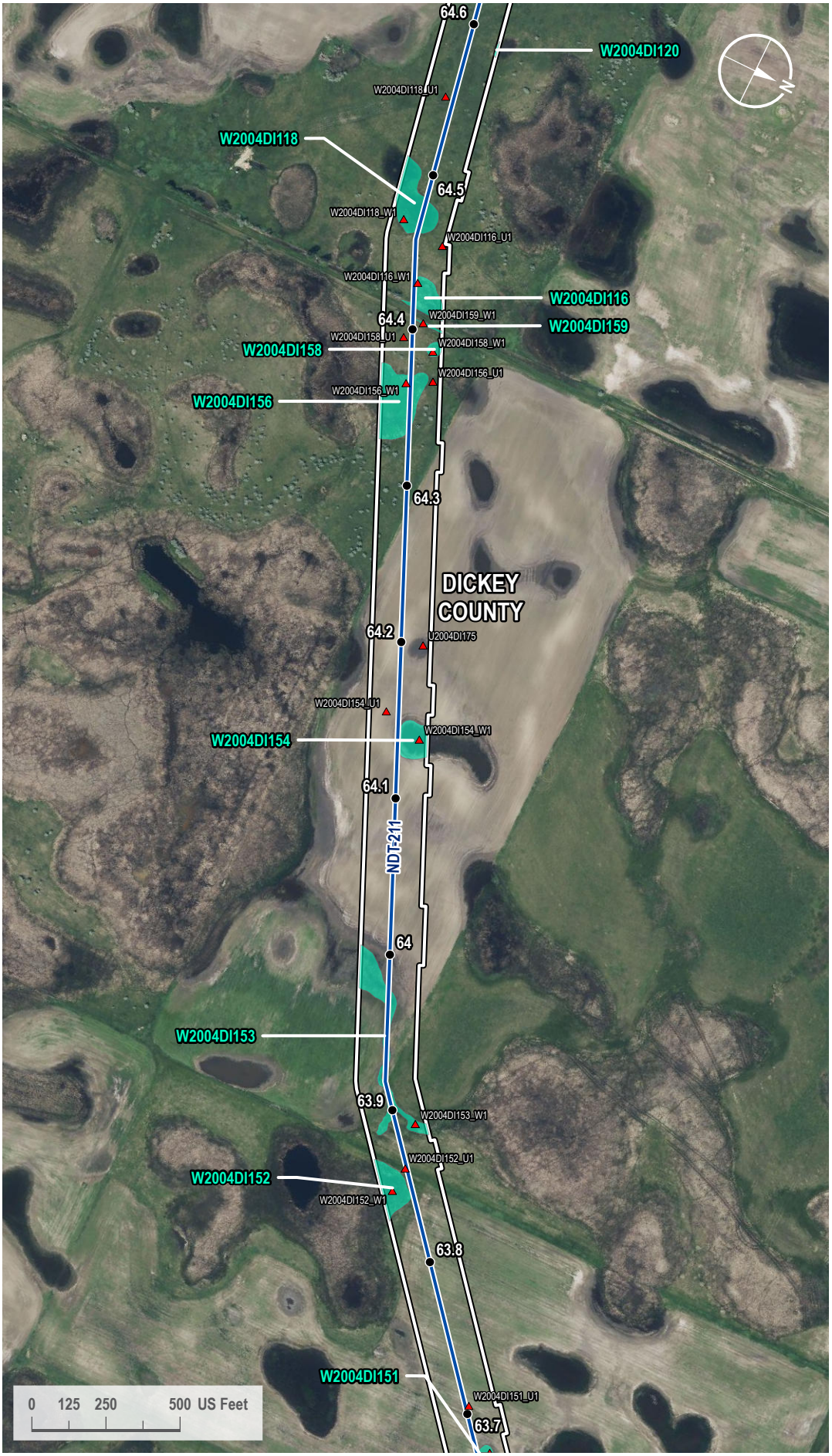

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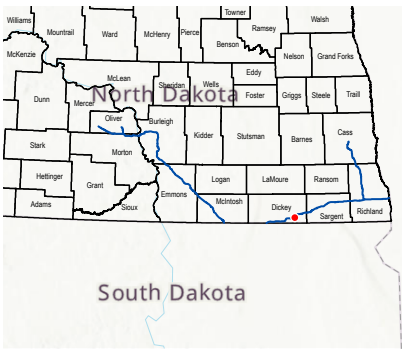

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- Milepost
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- 200-foot Siting Corridor
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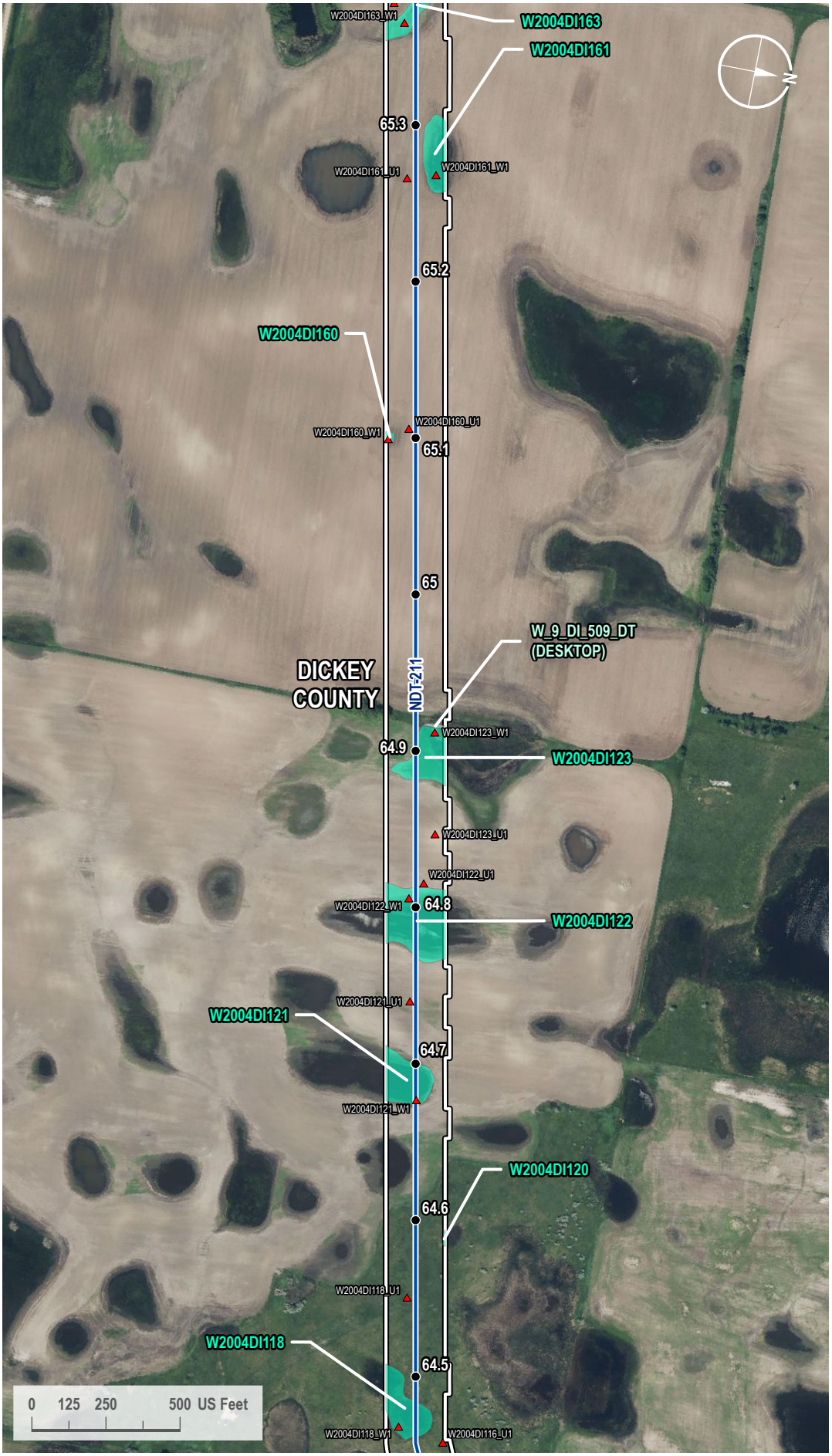

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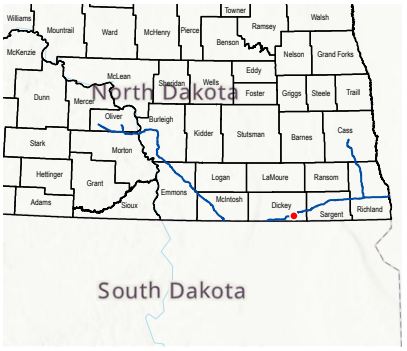

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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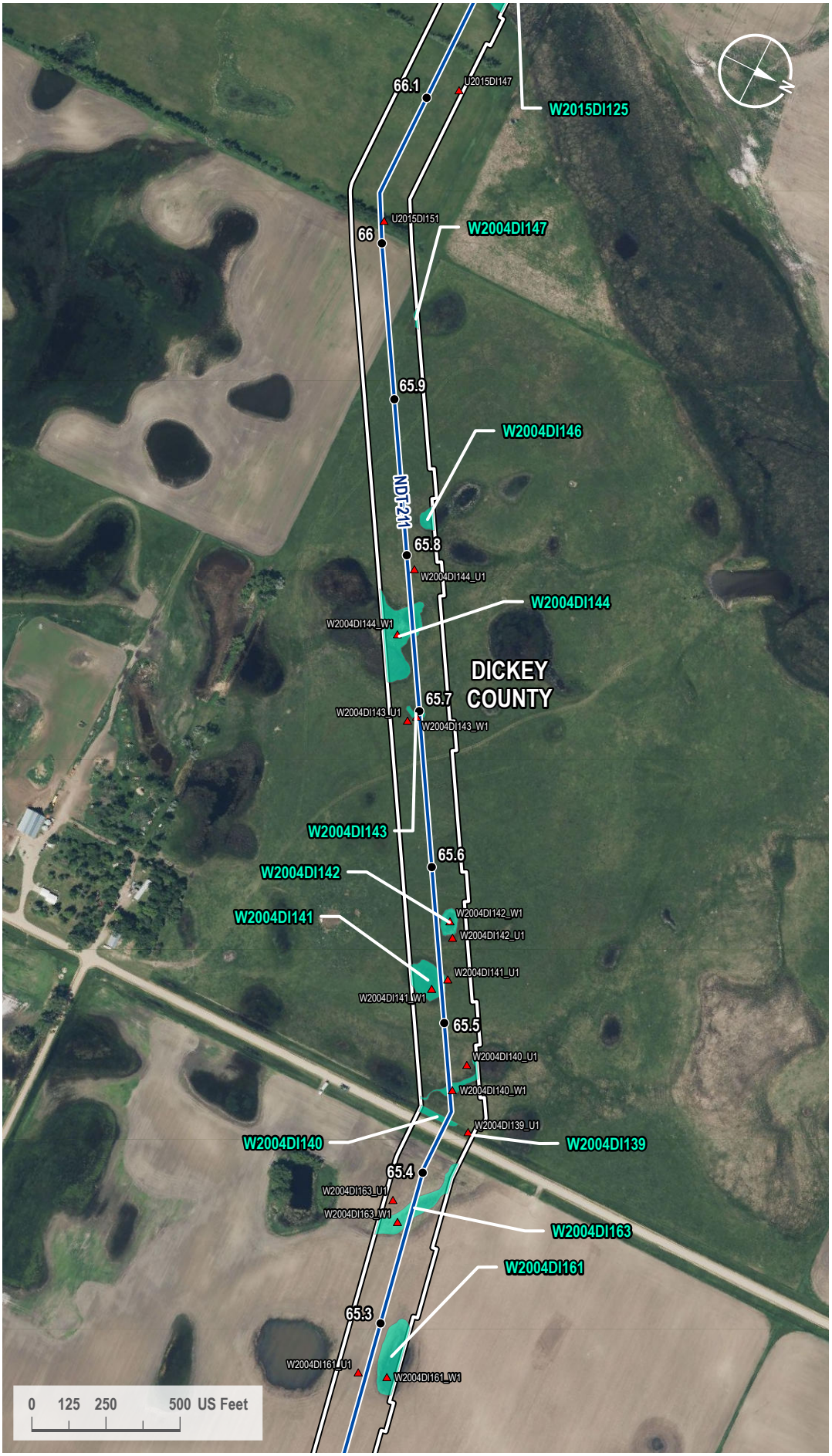

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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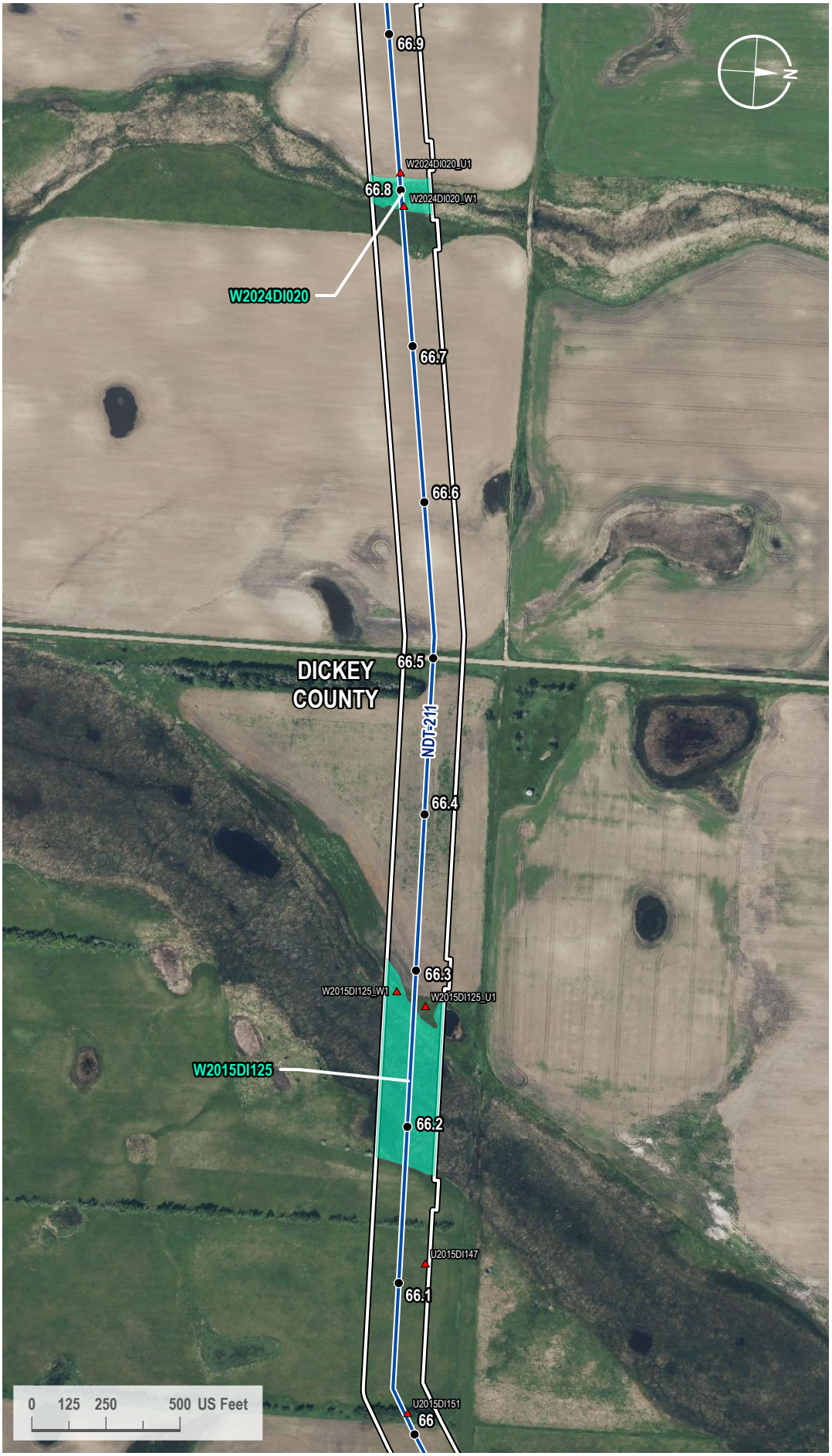

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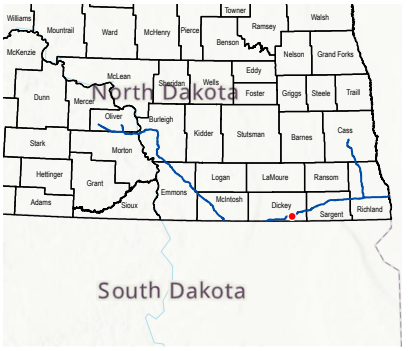

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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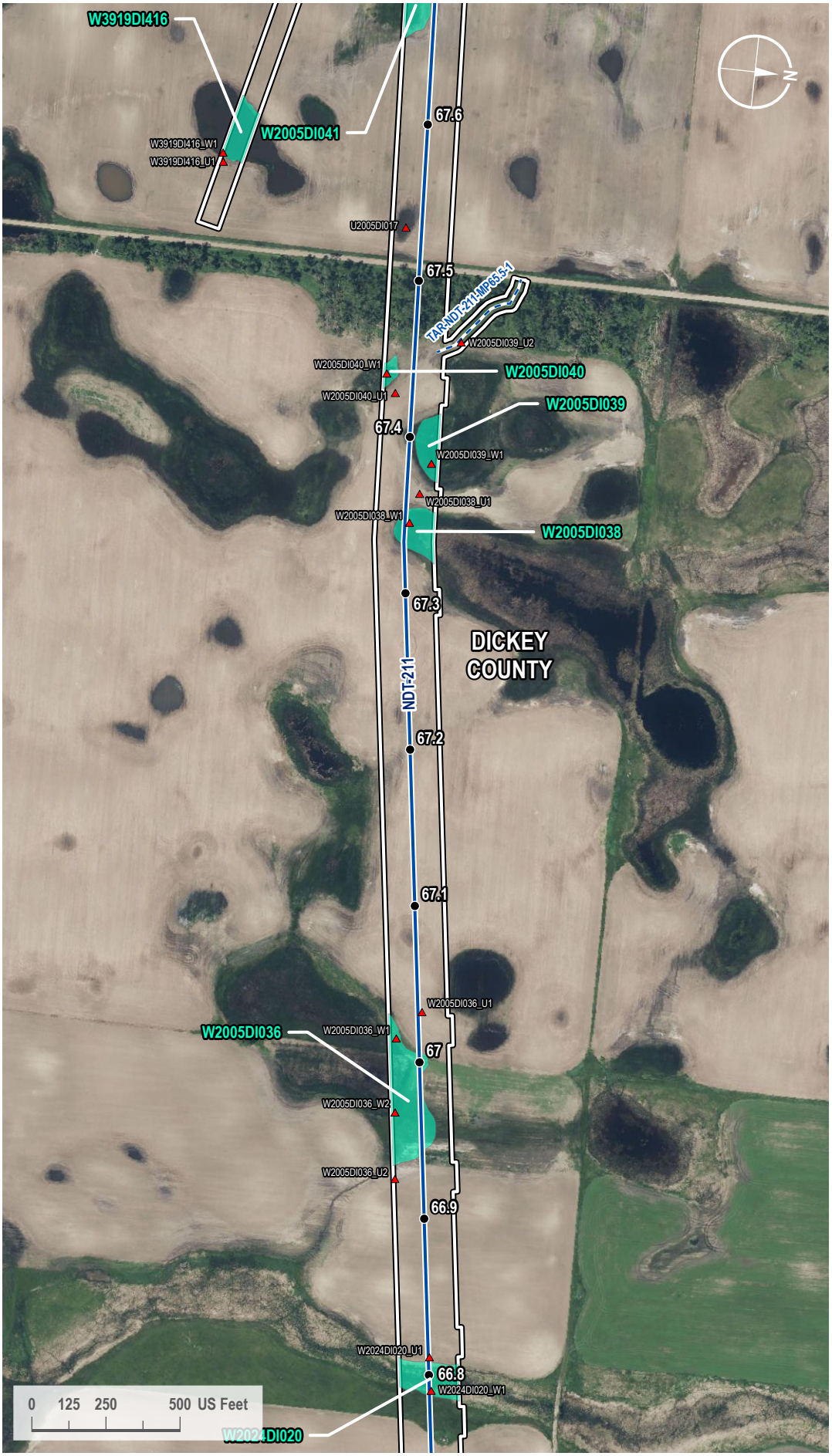

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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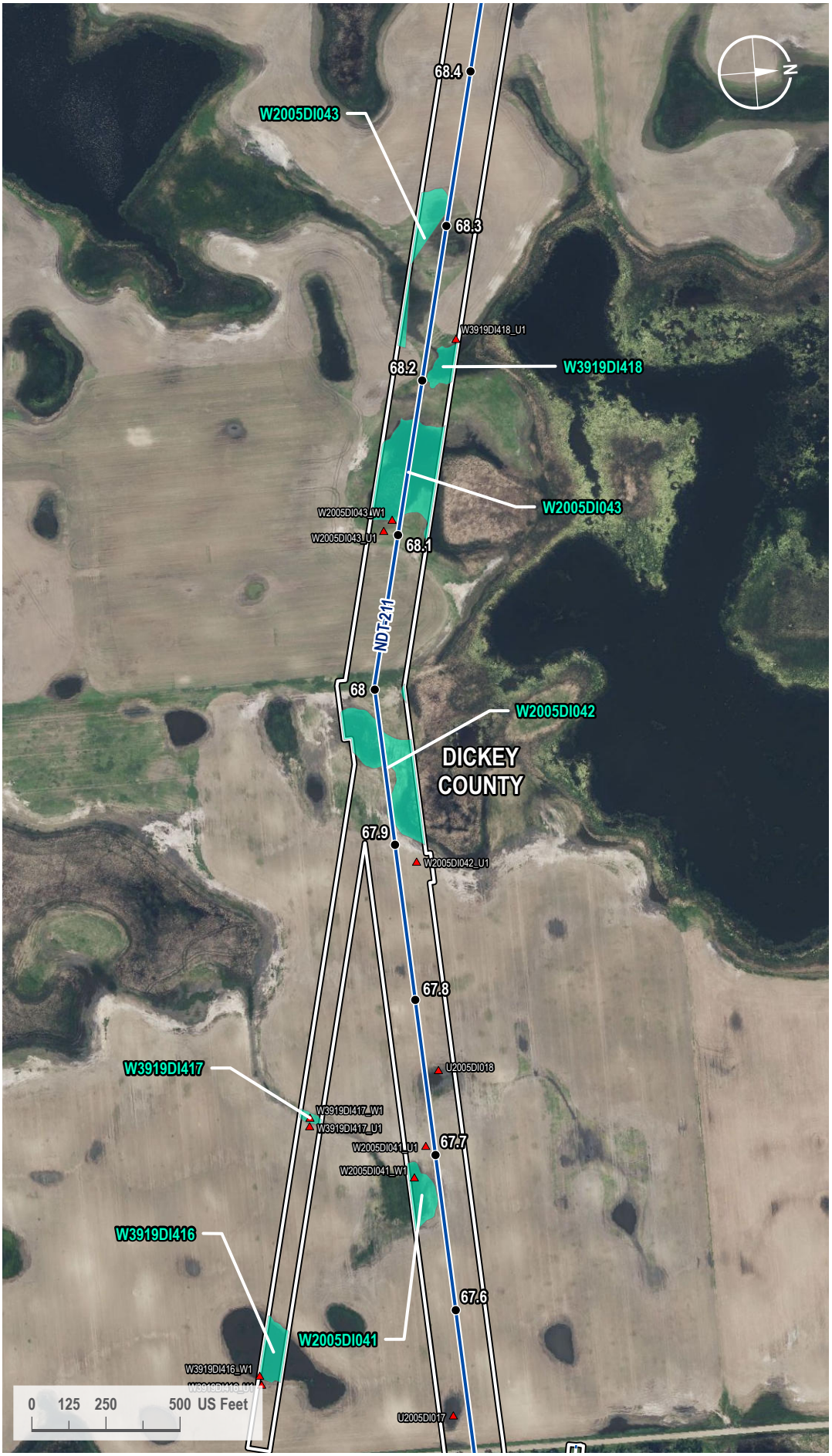

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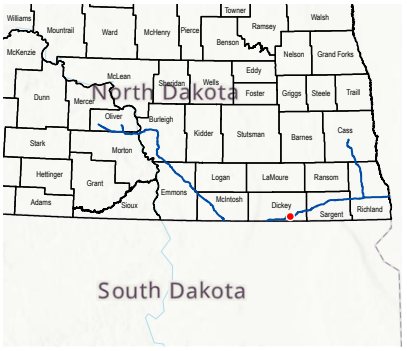

LEGEND

- Milepost
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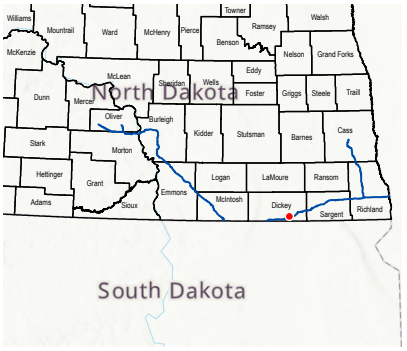

LEGEND

- Milepost
- Soil Station
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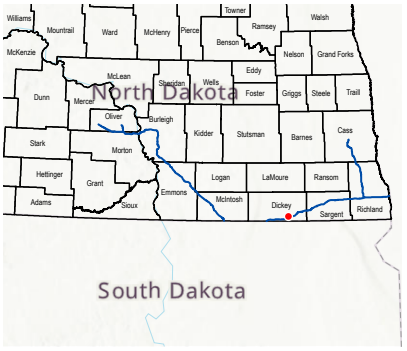

LEGEND

- Milepost
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- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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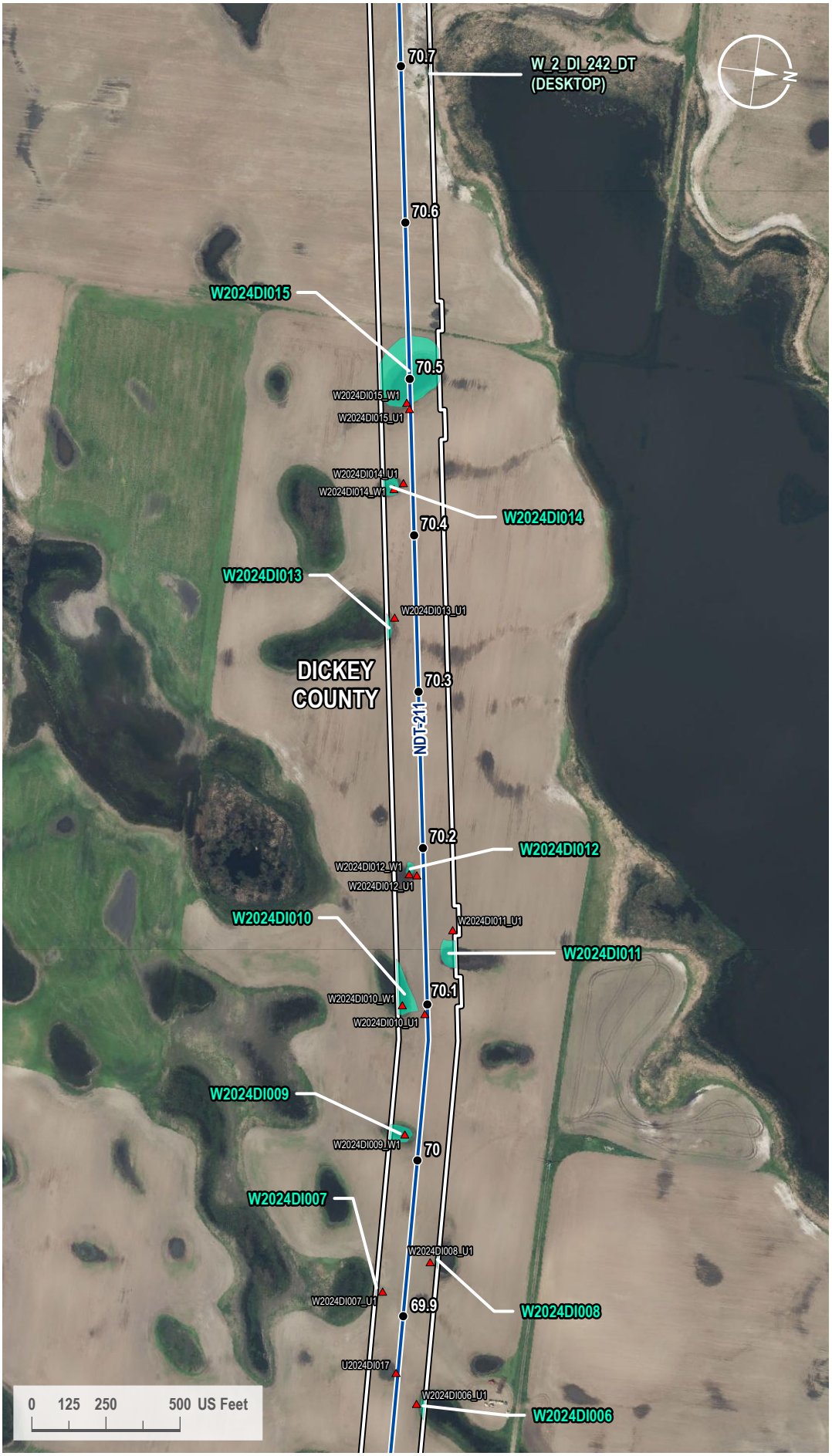

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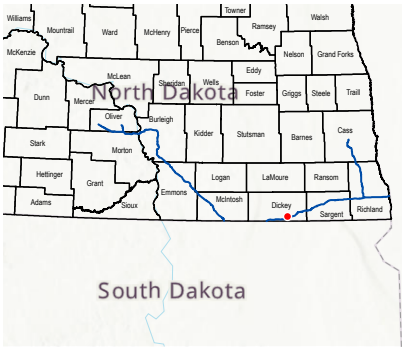

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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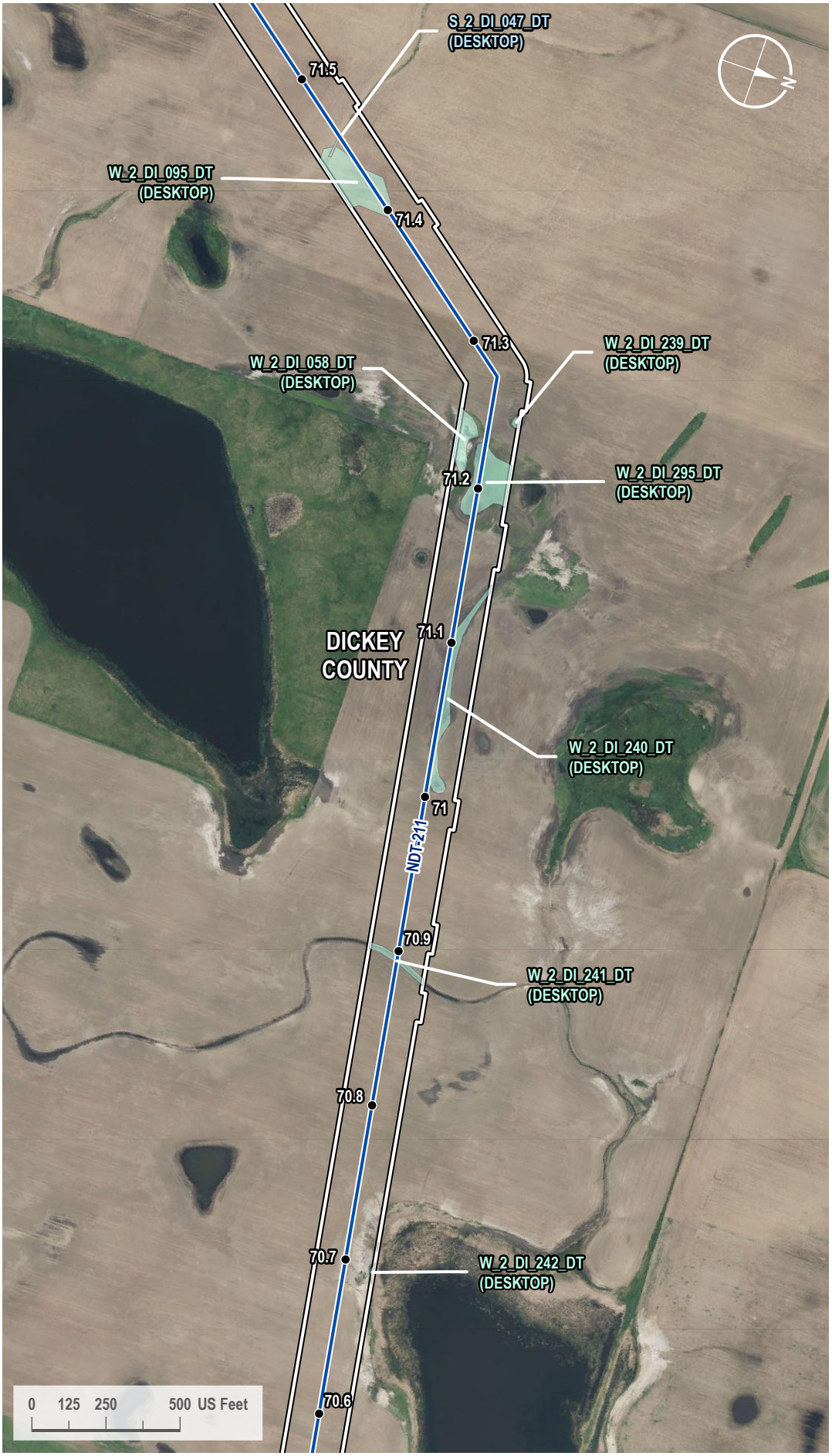

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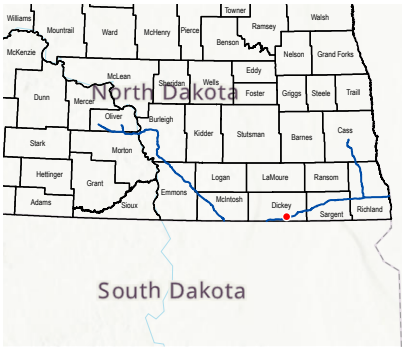

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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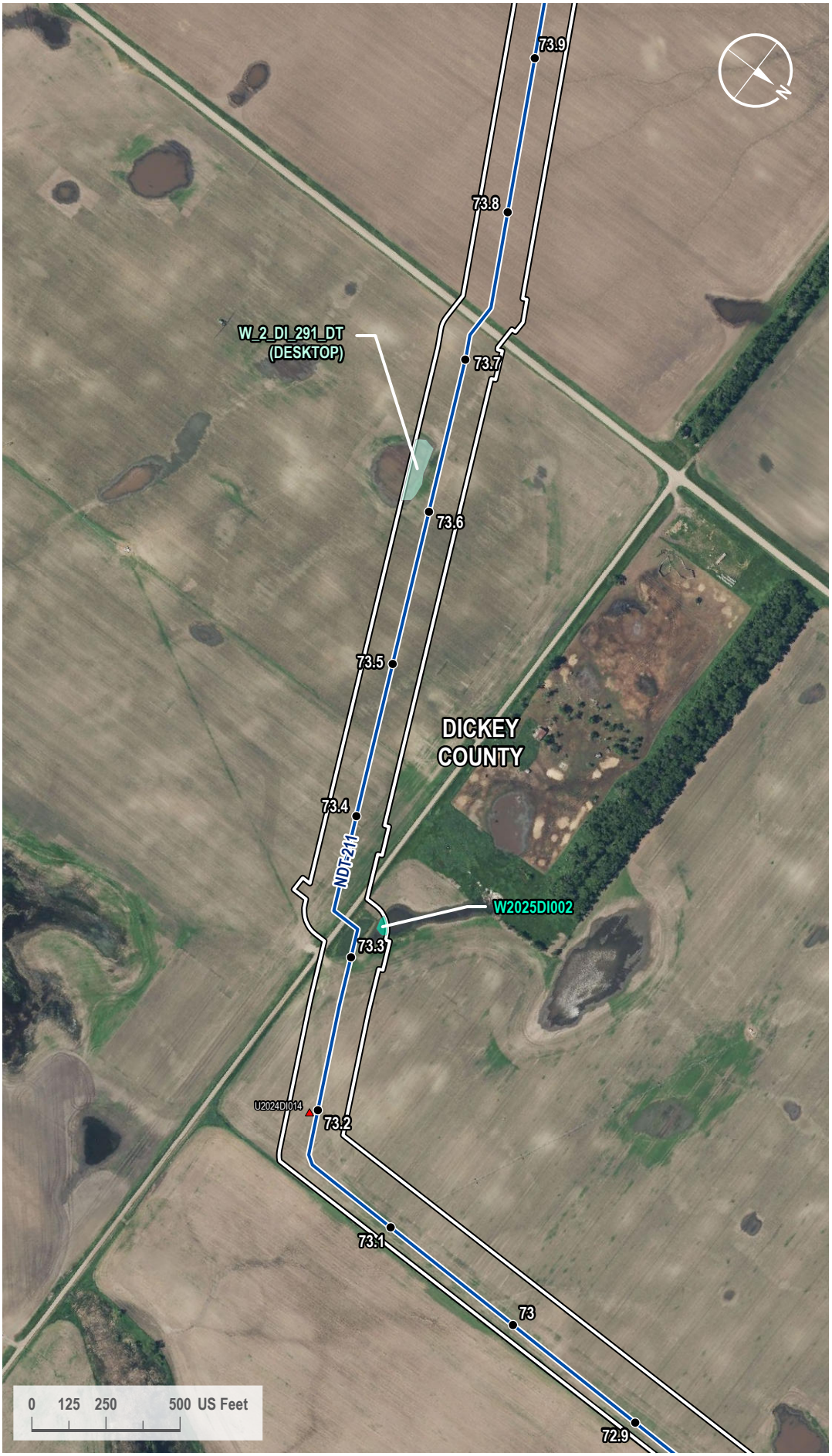

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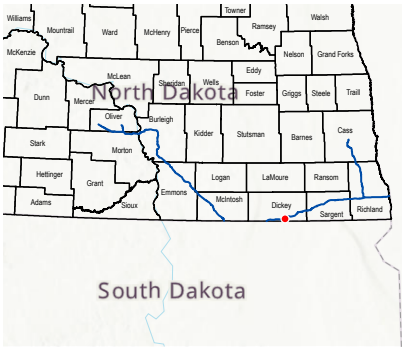

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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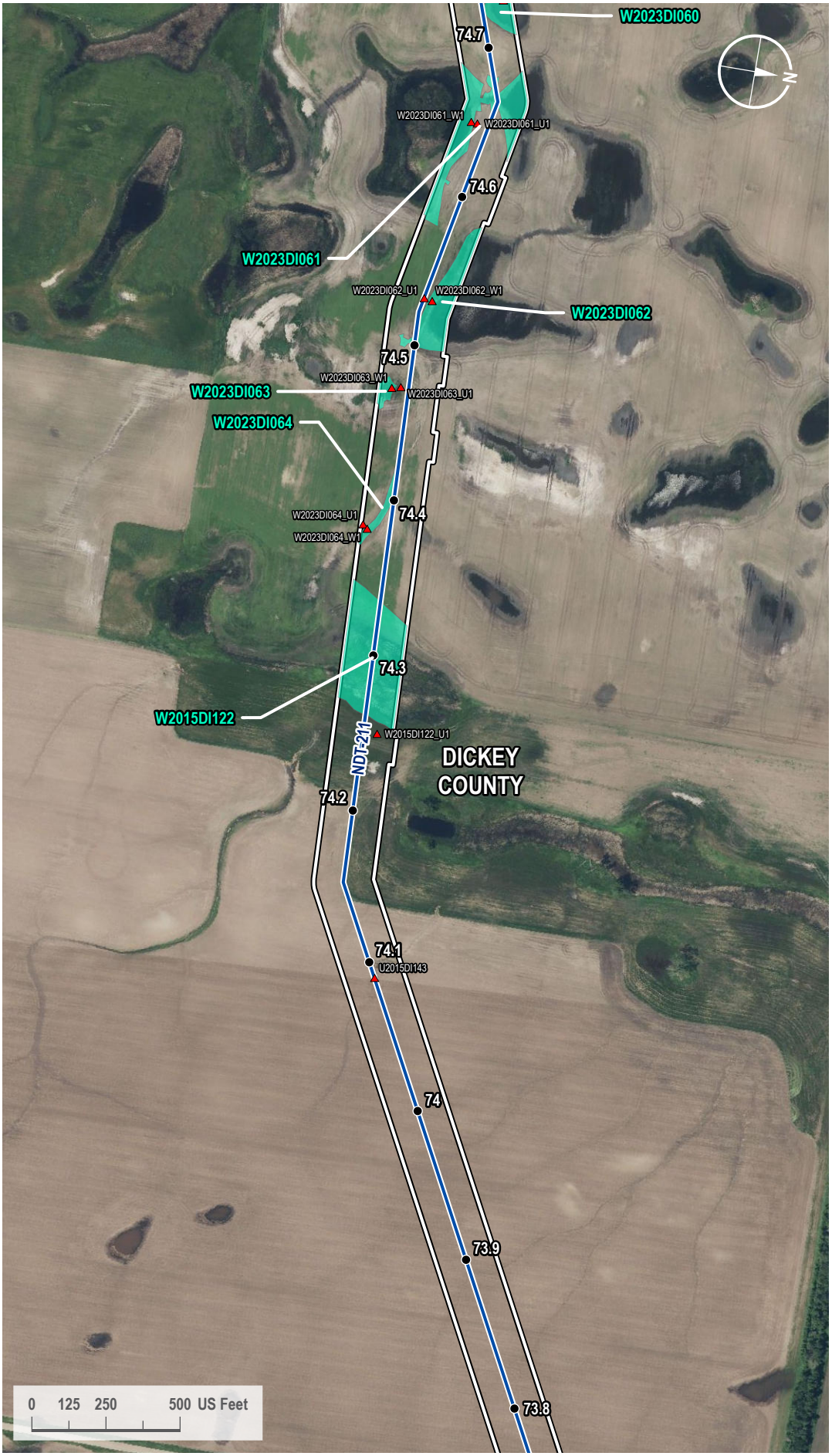

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
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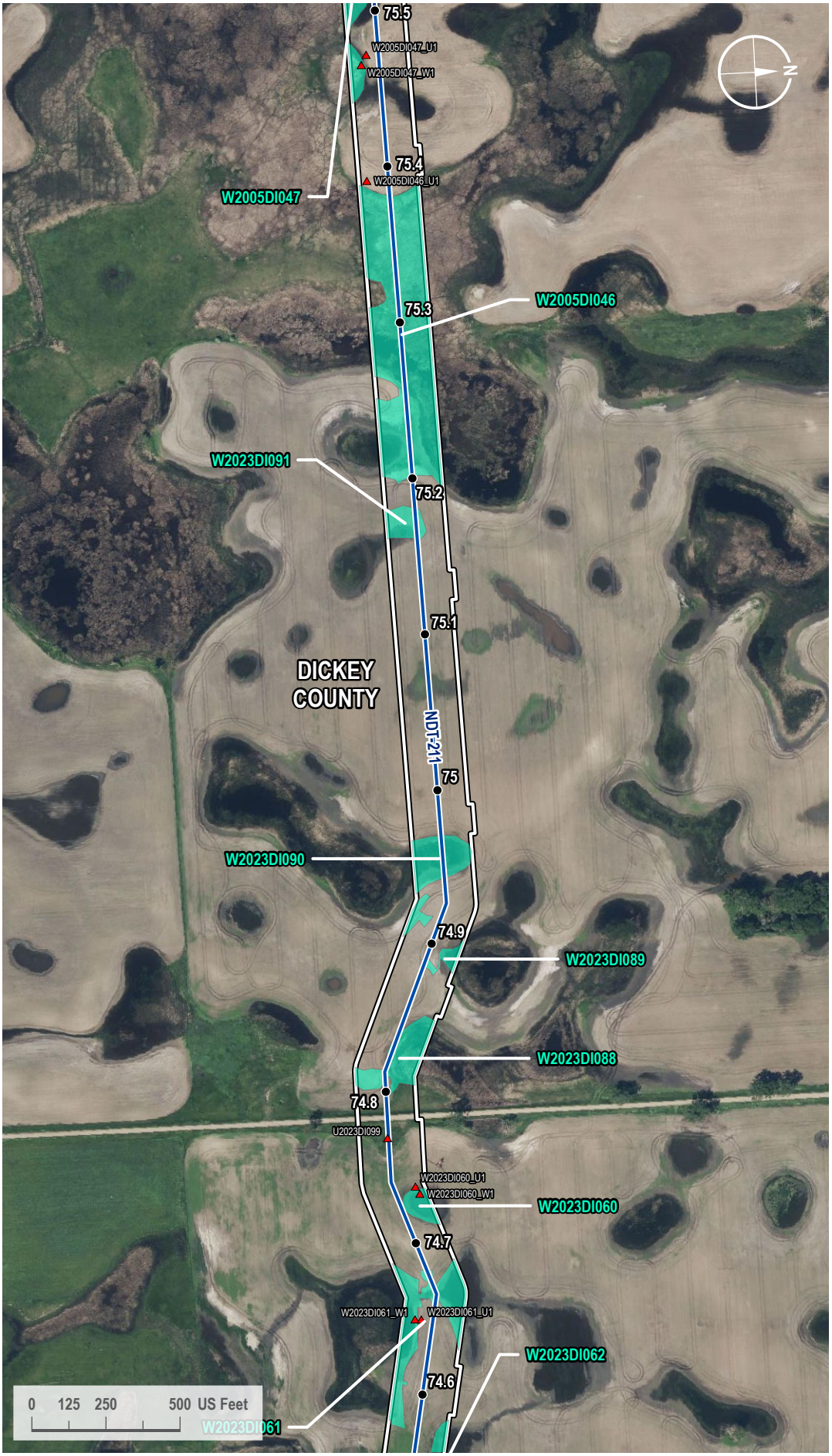

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
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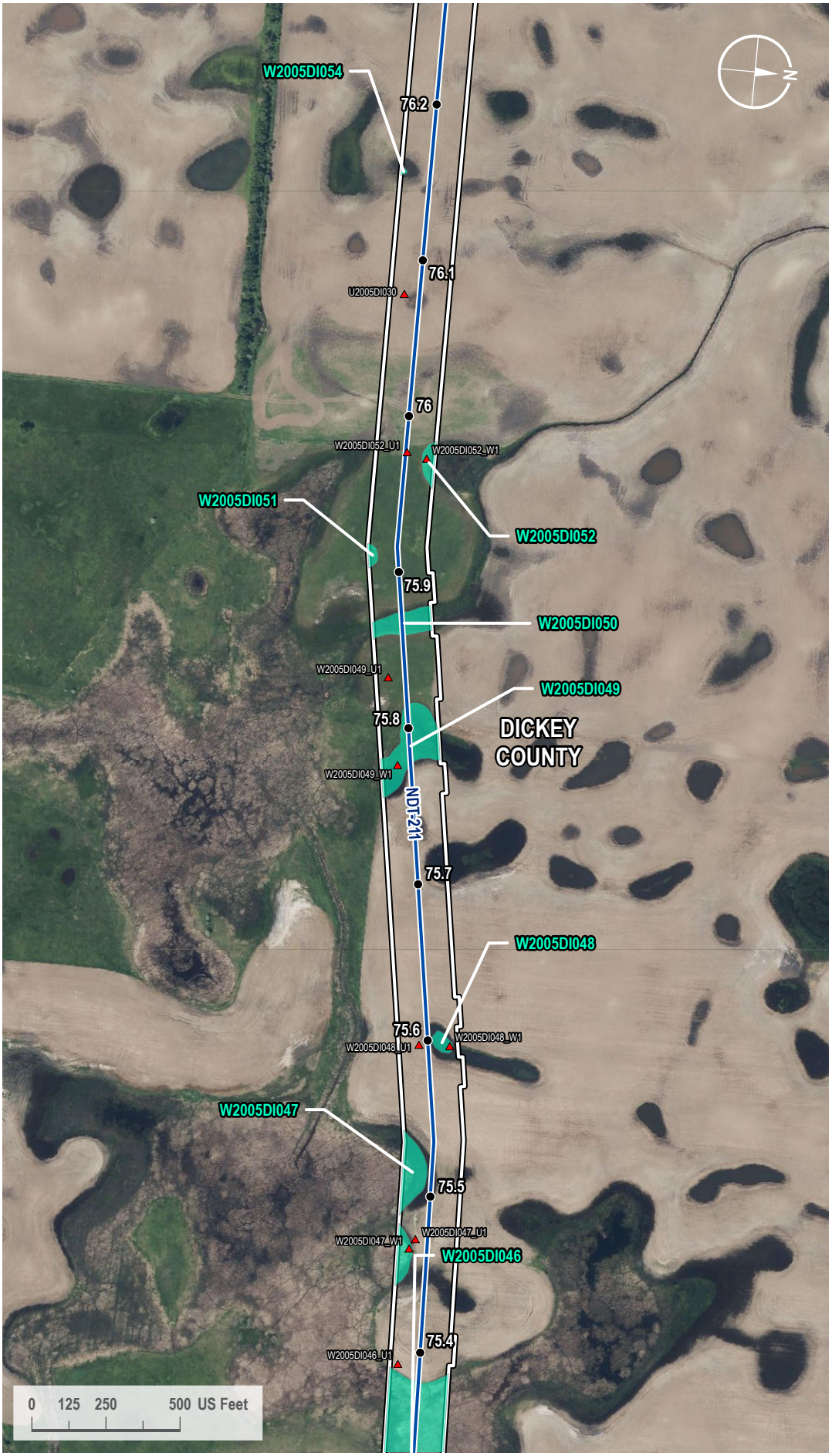

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
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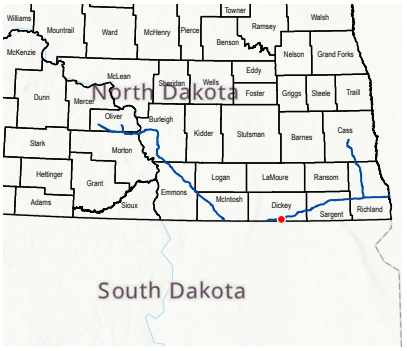

LEGEND

- Milepost
- Soil Station
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- 200-foot Siting Corridor
- Stream (Surveyed)
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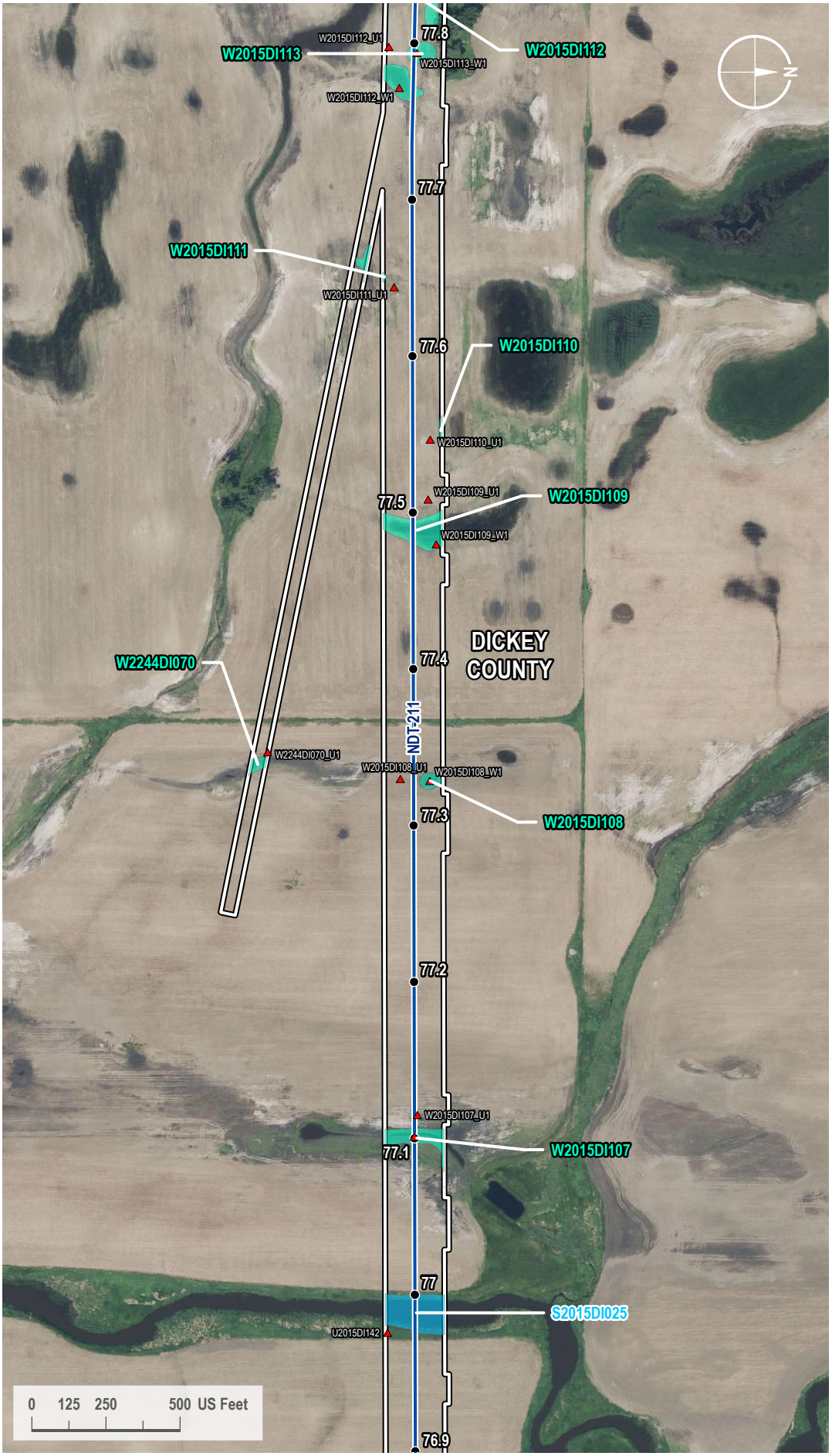

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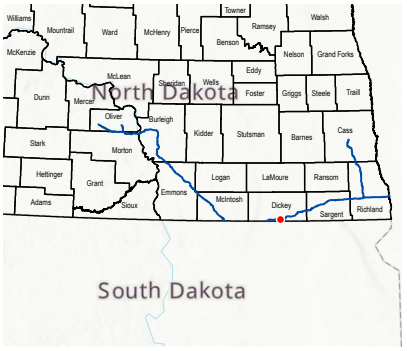

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
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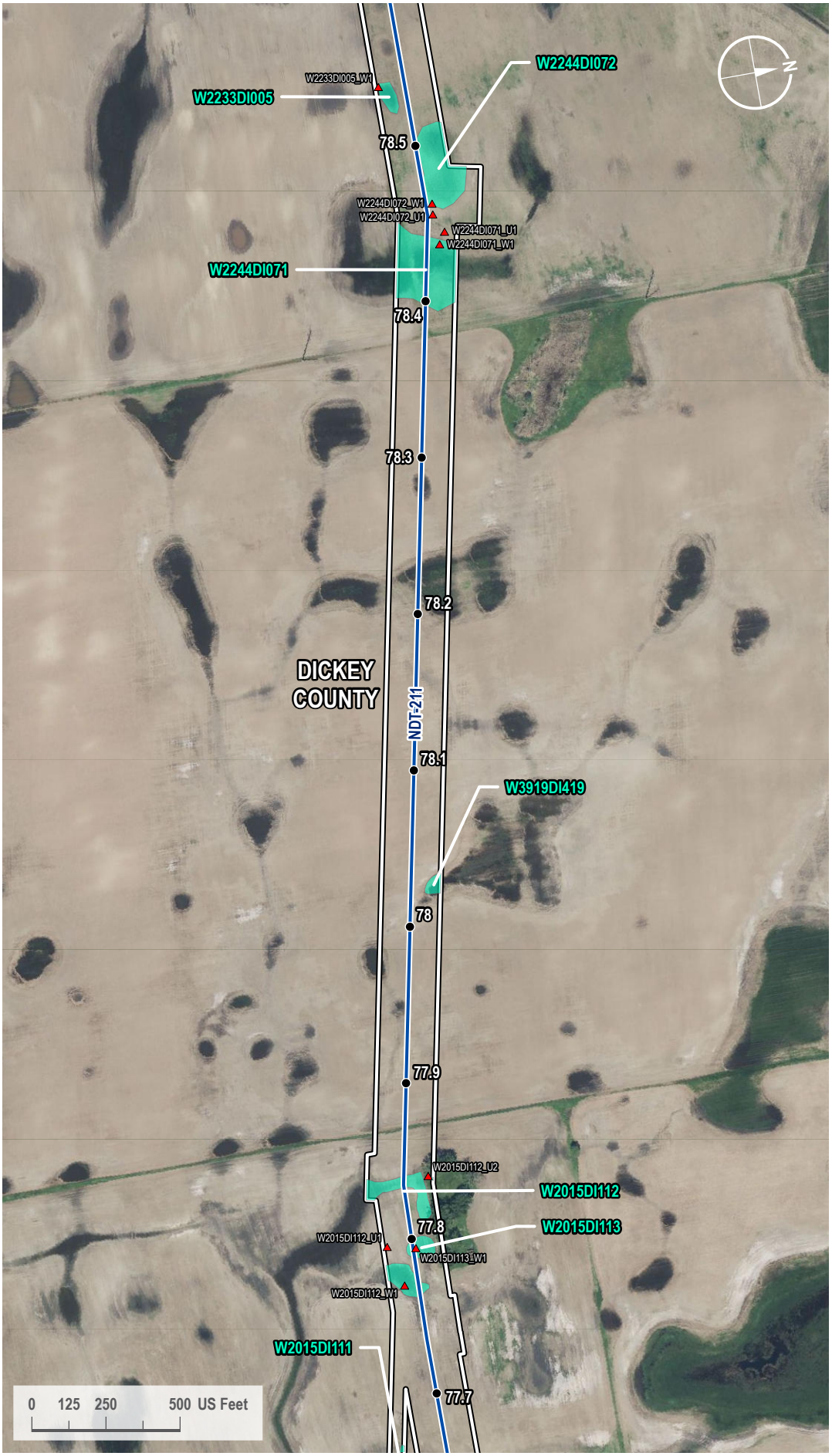

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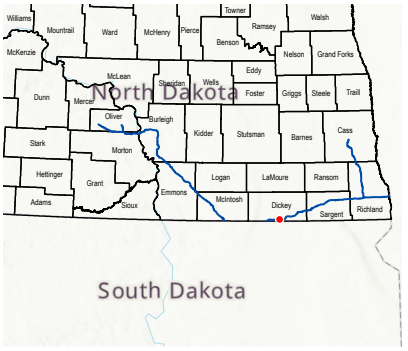

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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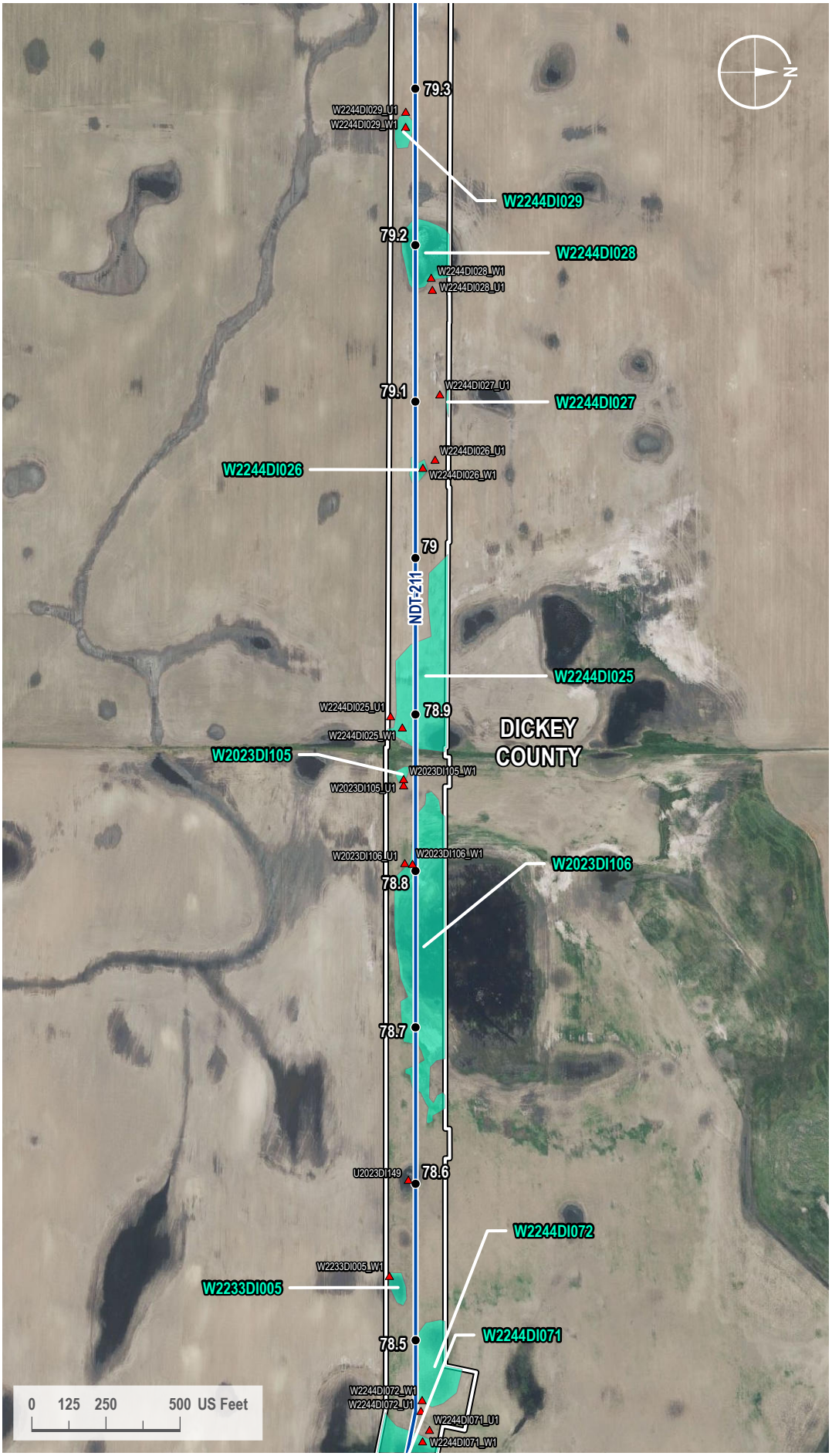

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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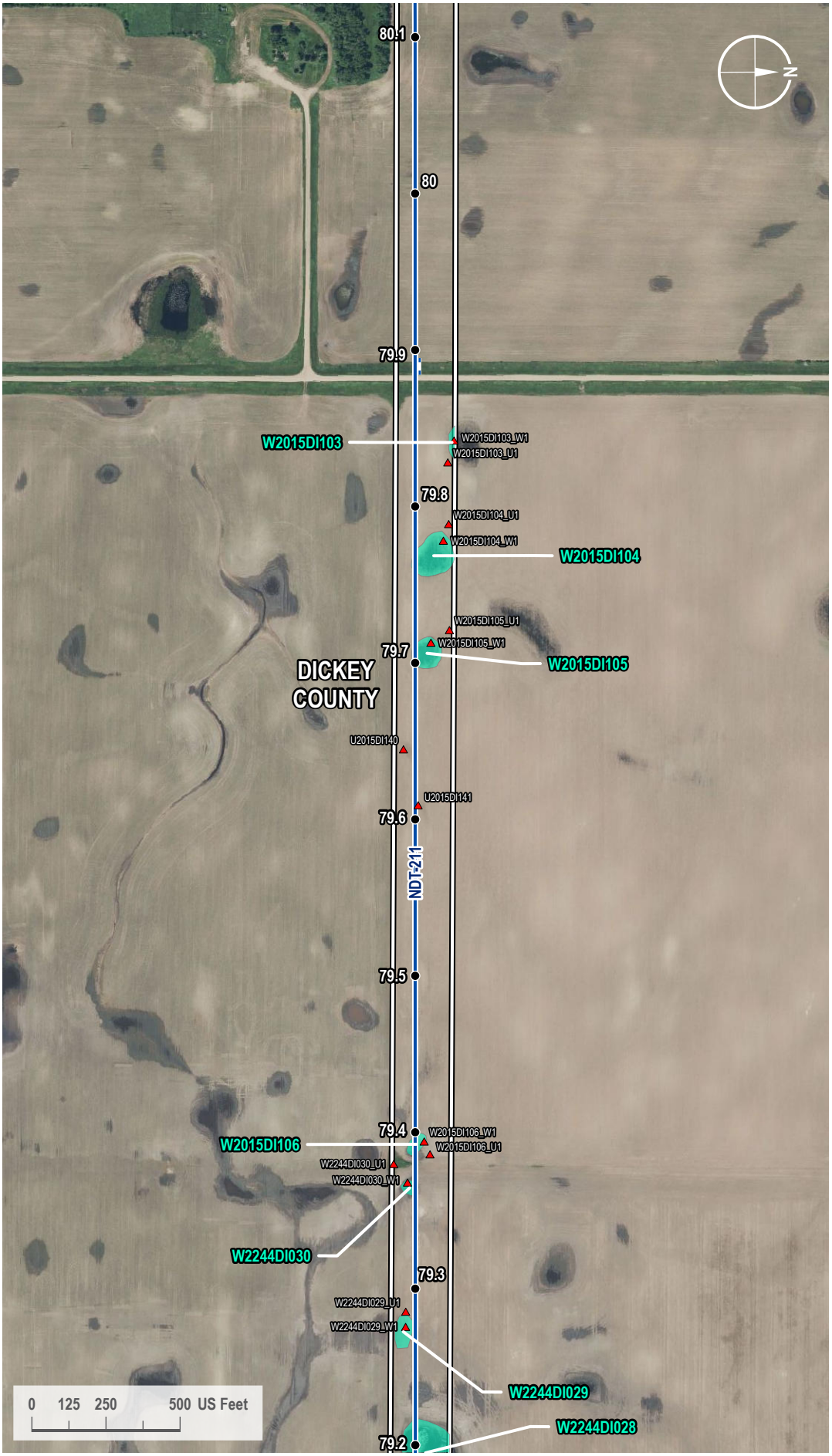

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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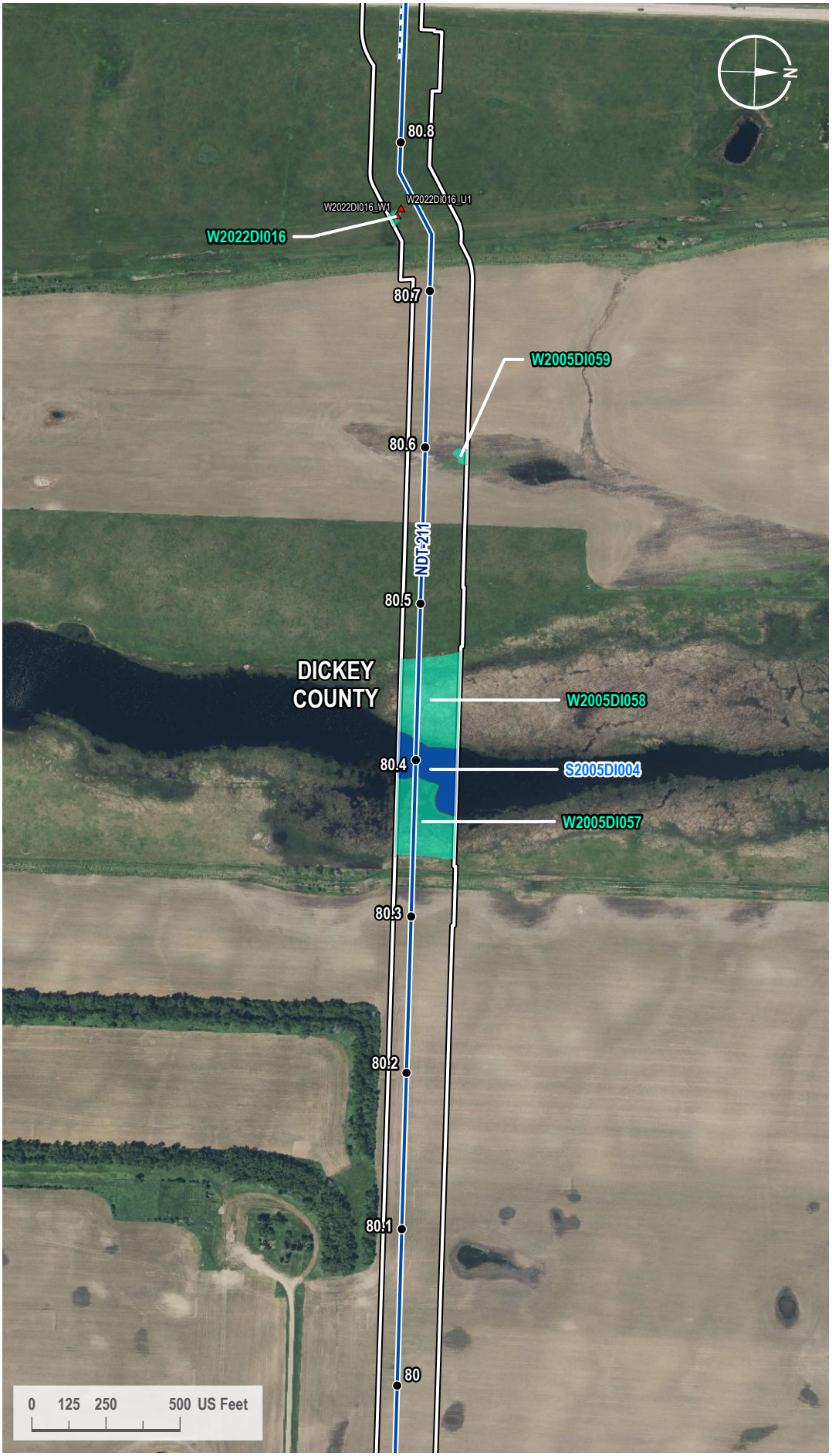

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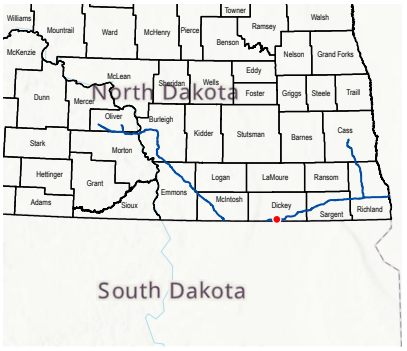

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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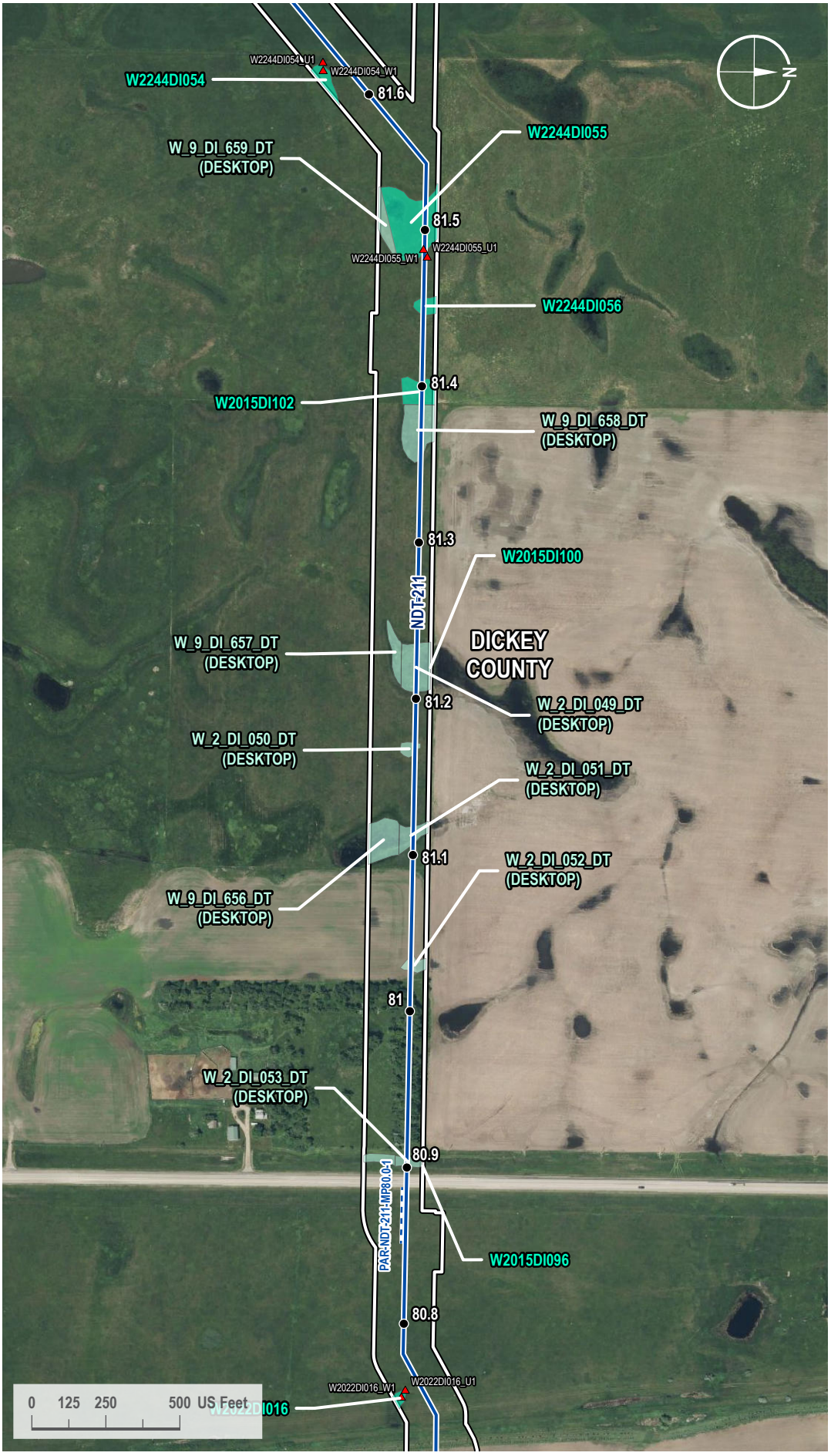

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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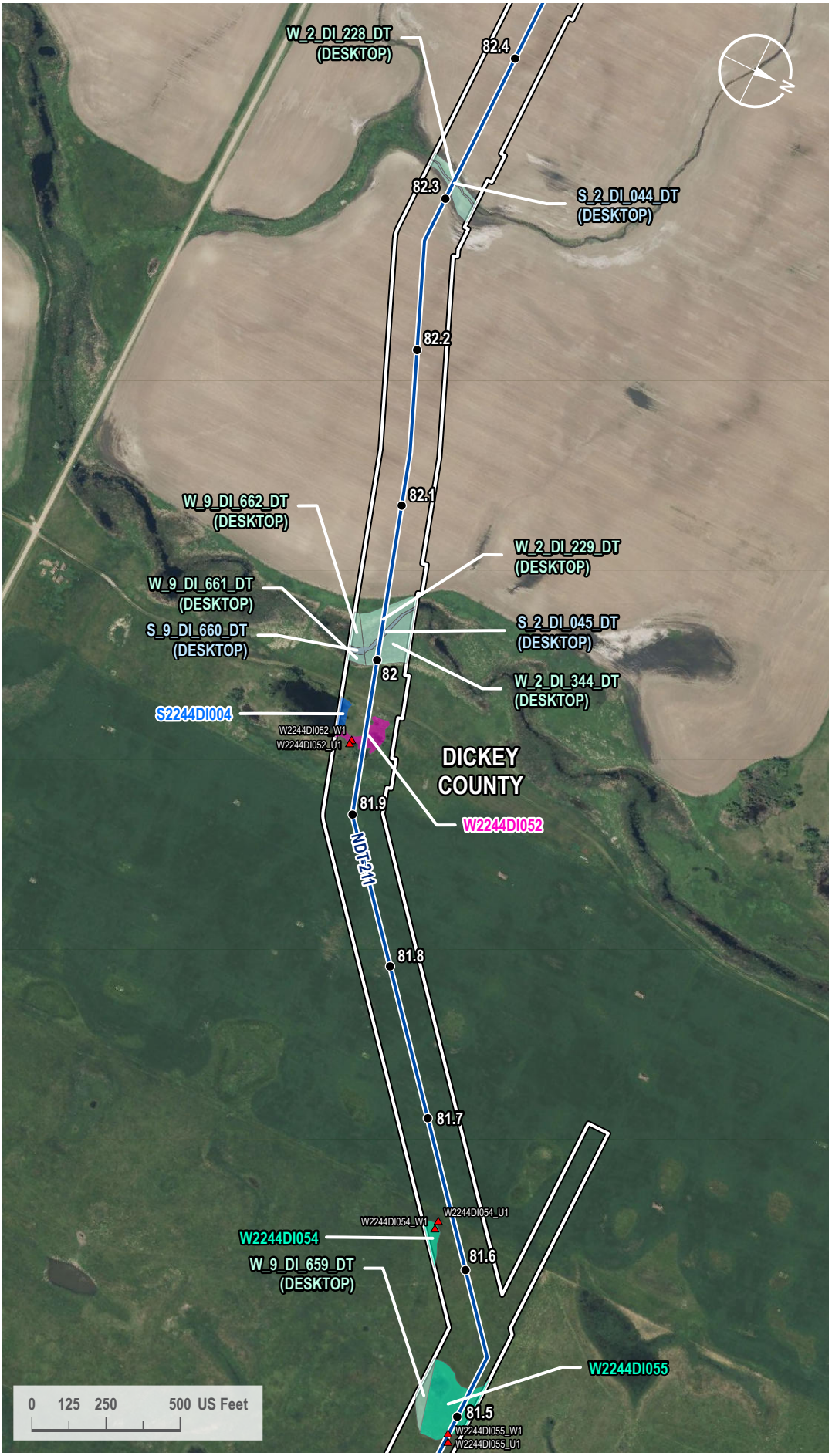

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Scrub-Shrub Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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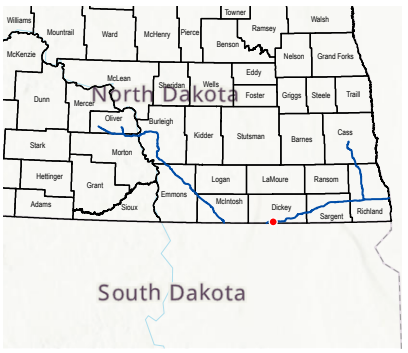

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- Milepost
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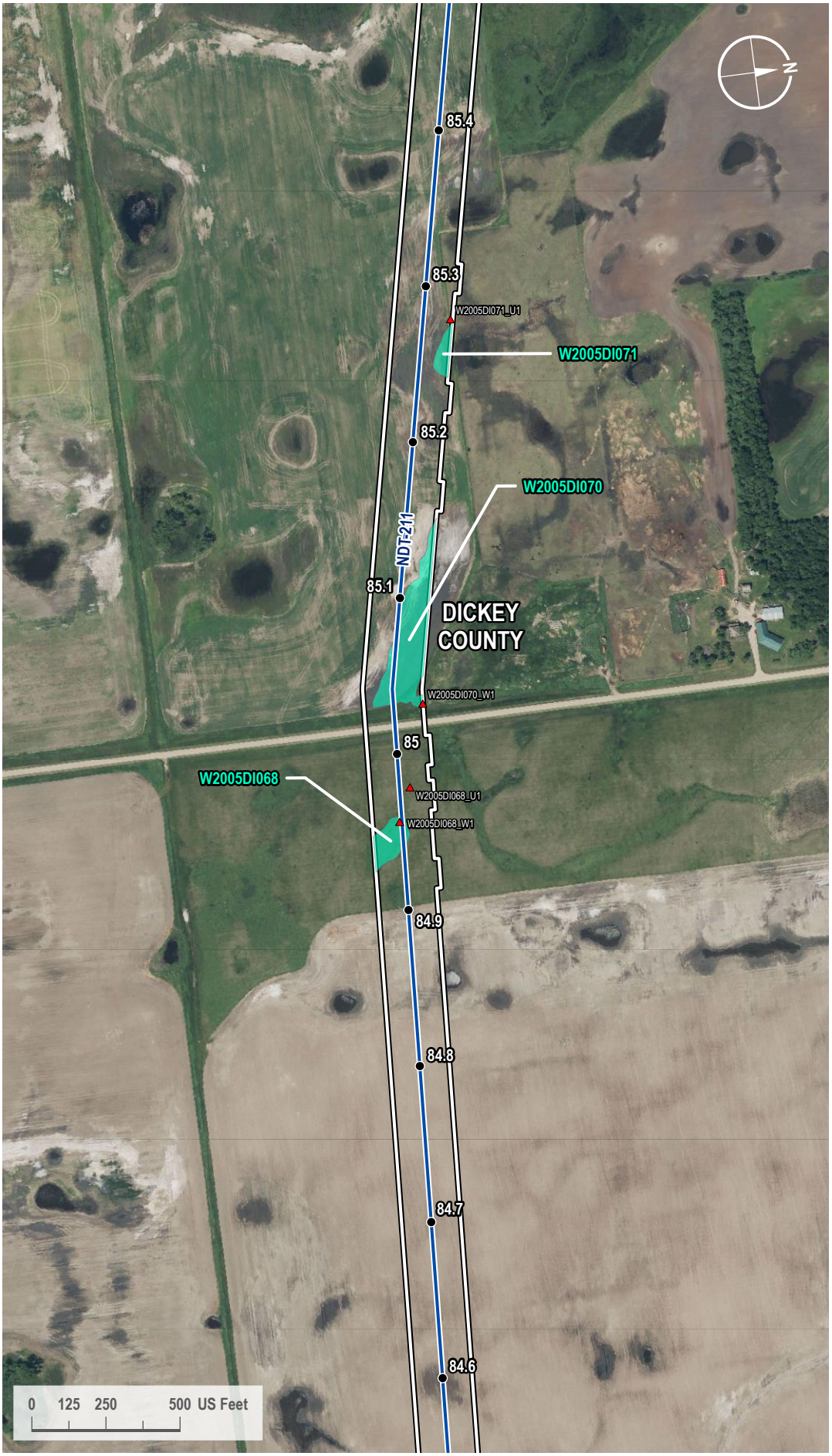

VICINITY MAP



LEGEND

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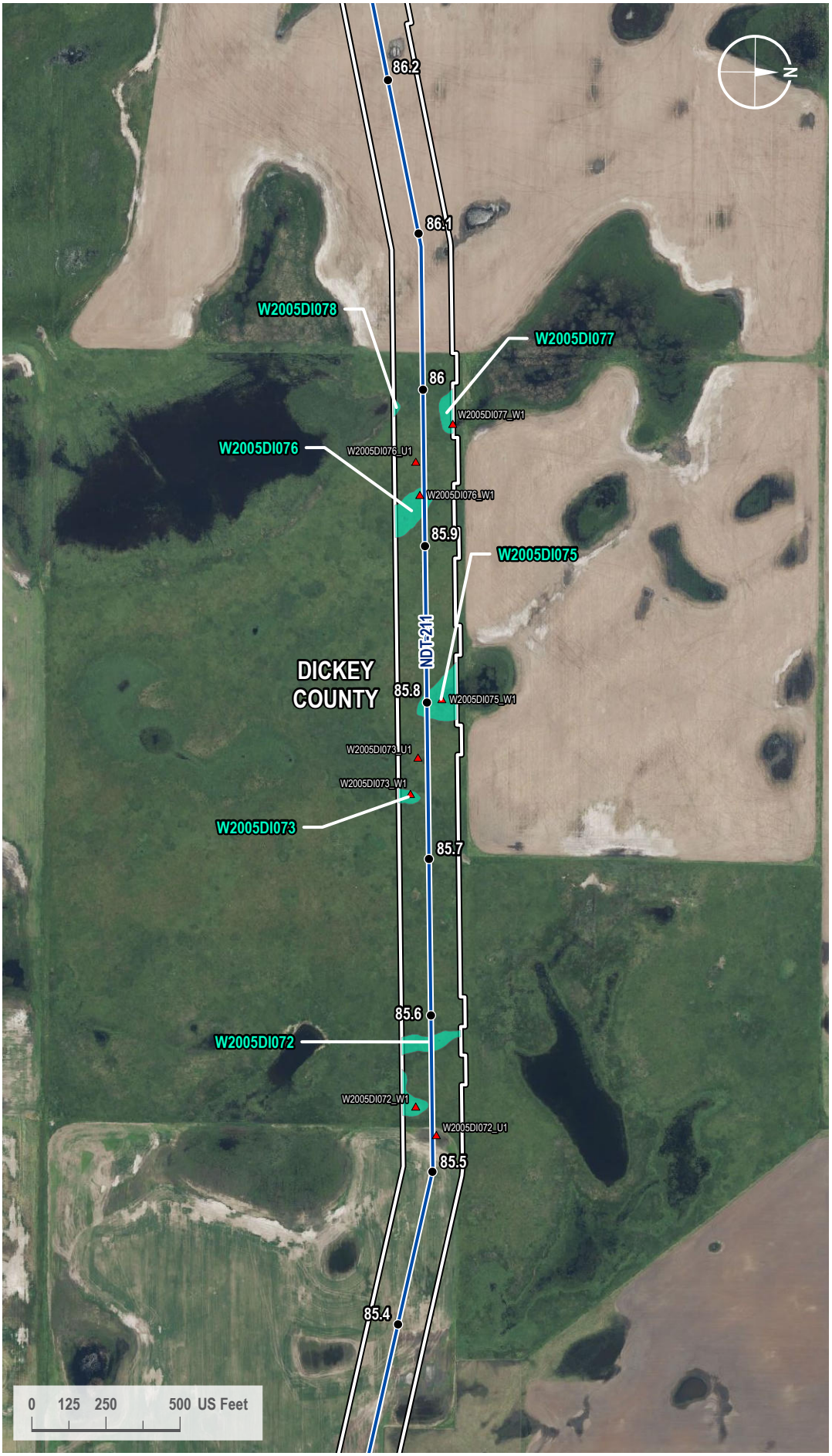

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- Milepost
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- Palustrine Emergent Wetland (Surveyed)

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Figure Title: Aerial Map

Figure Number: Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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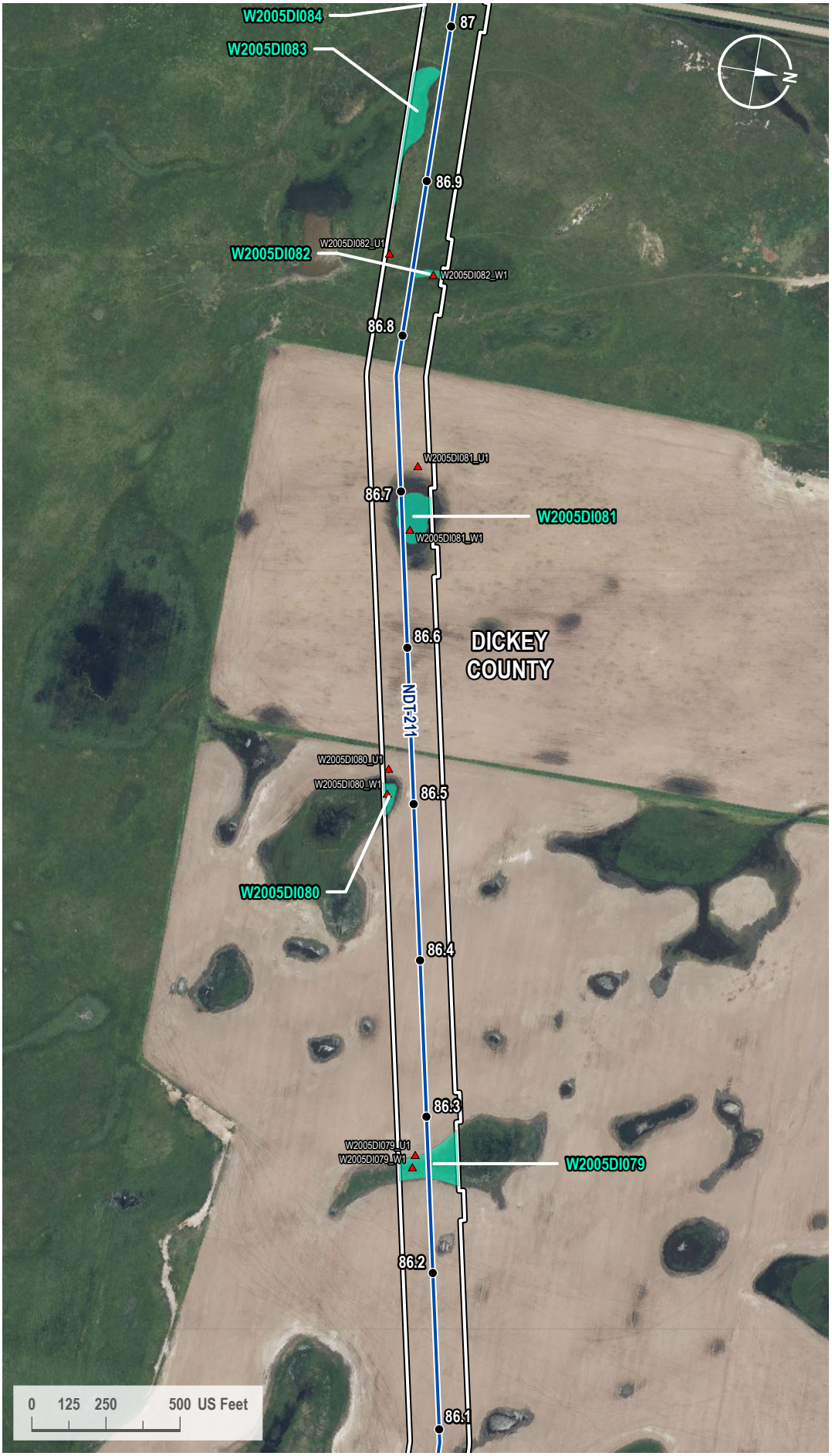

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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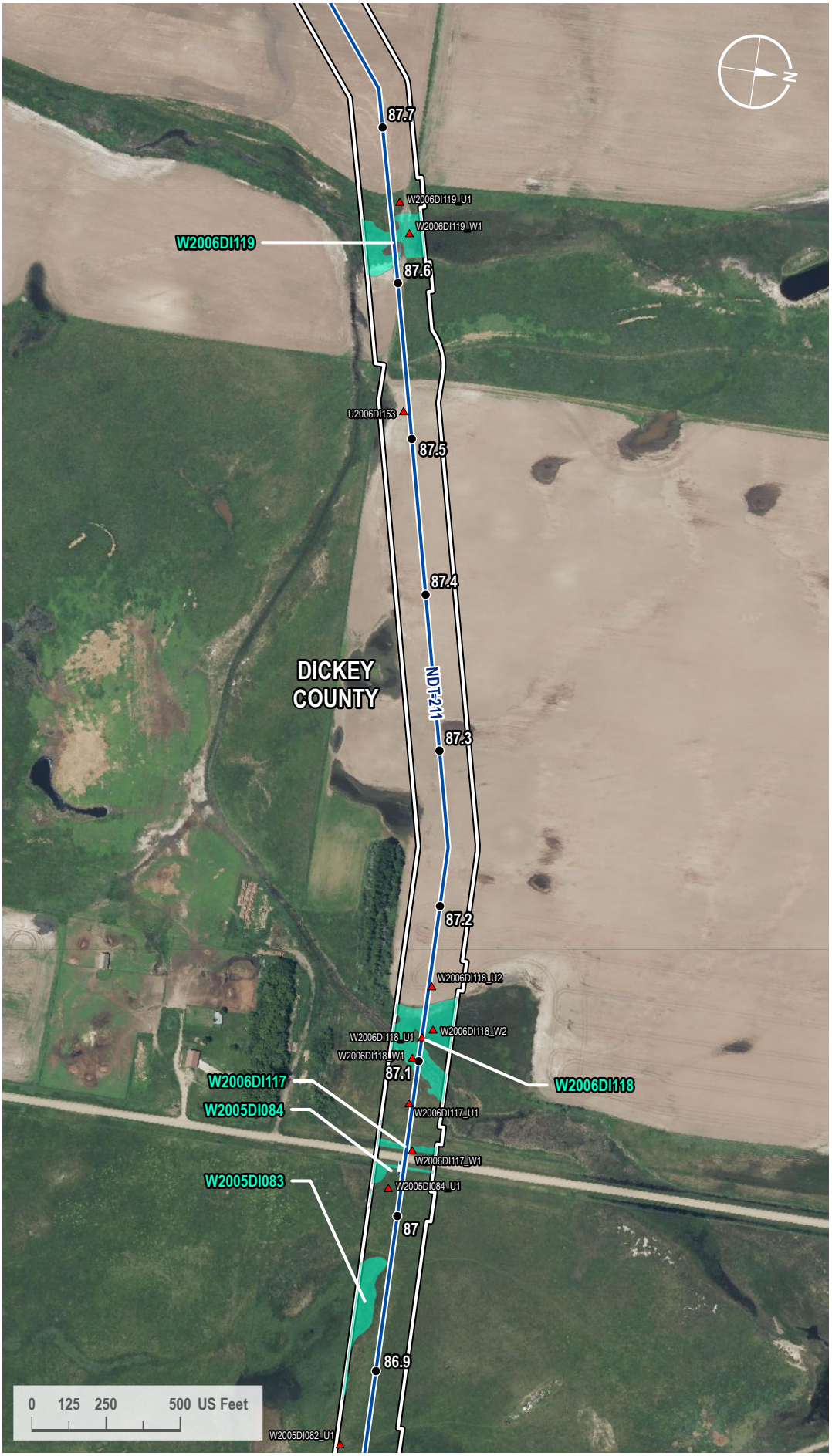

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



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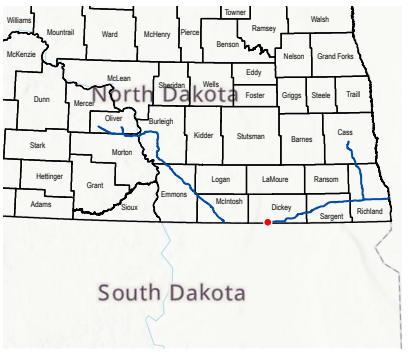

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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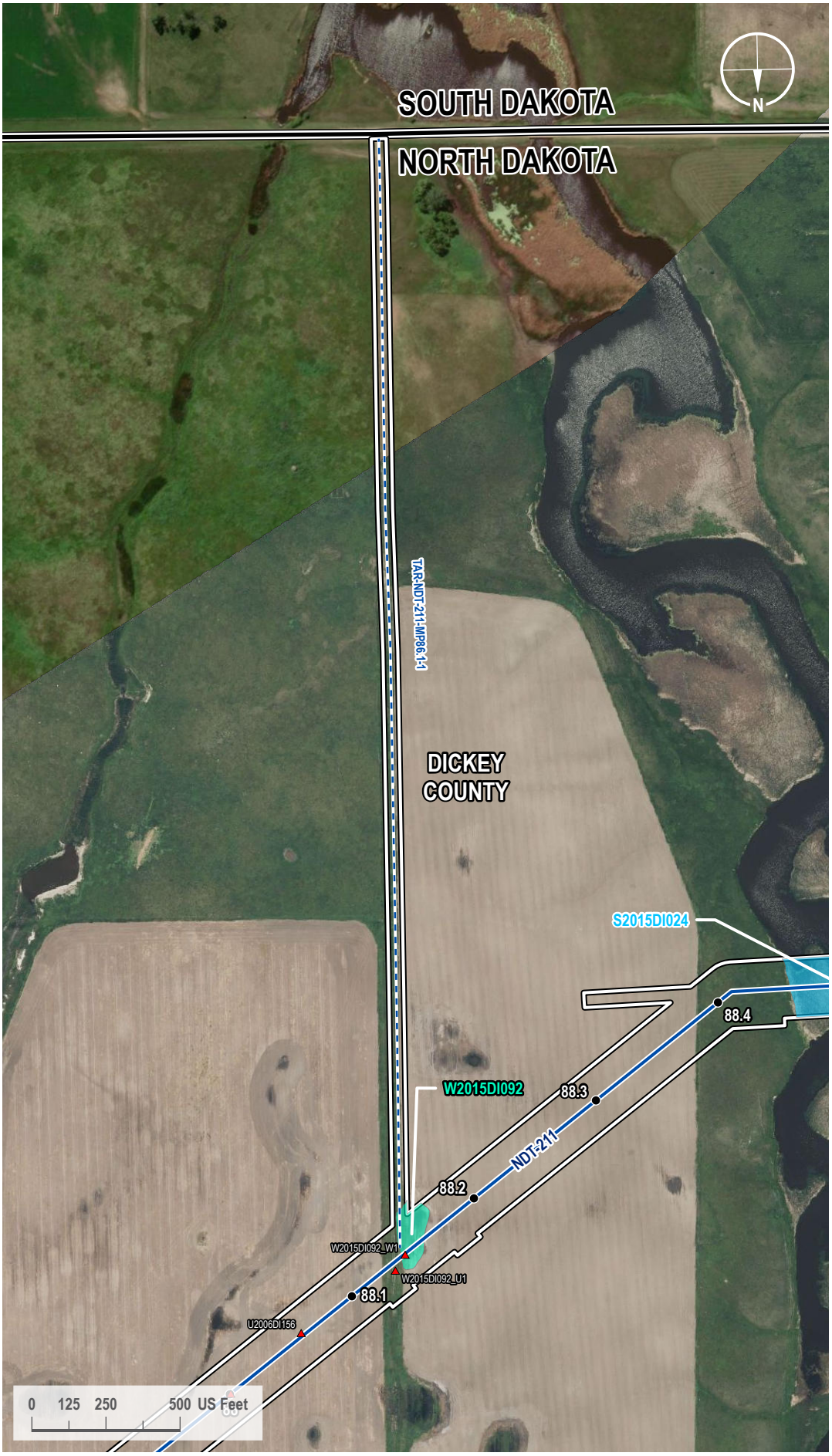

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- State Line
- County Line
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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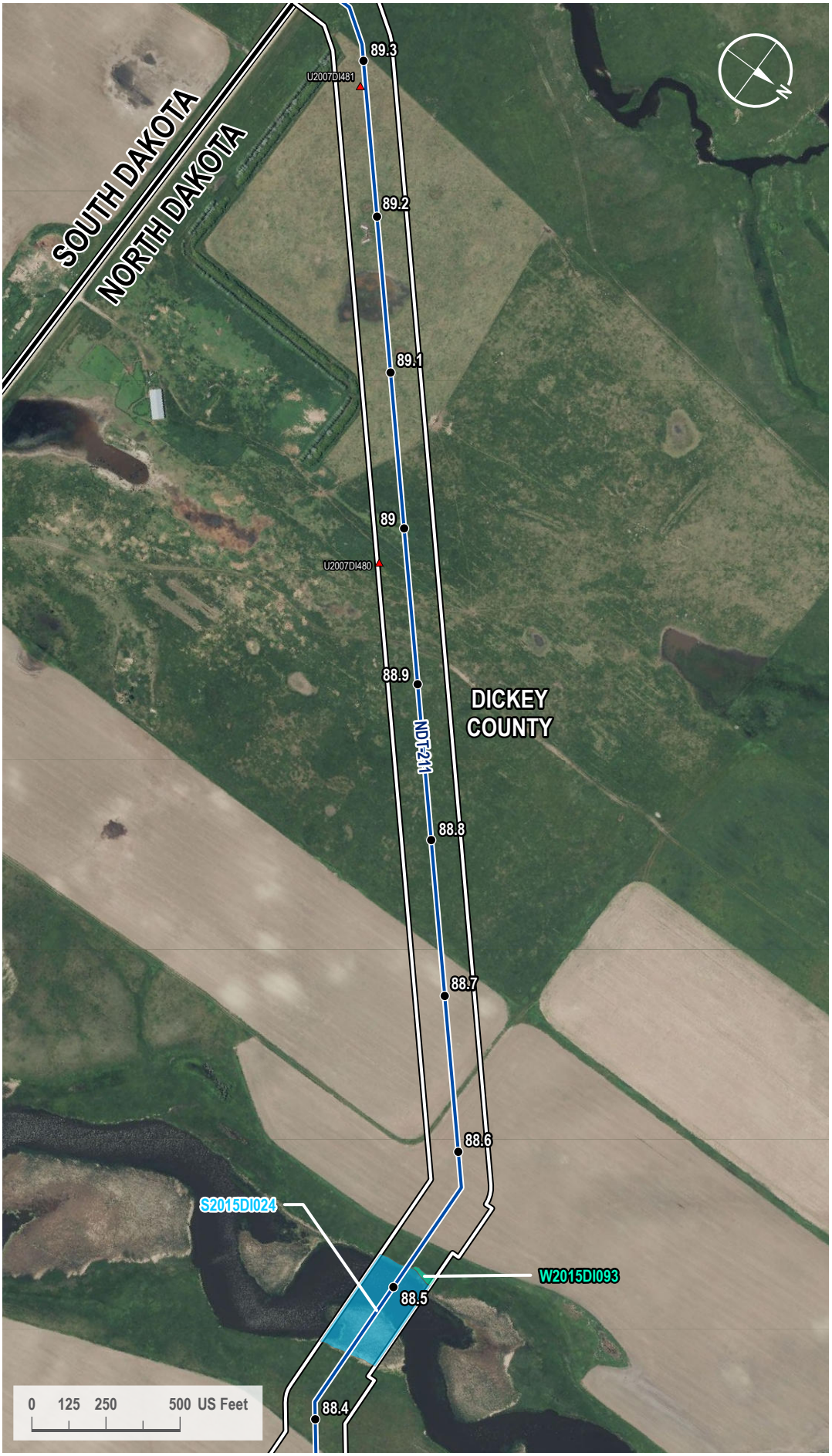

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- State Line
- County Line
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- State Line
- County Line
- 200-foot Siting Corridor

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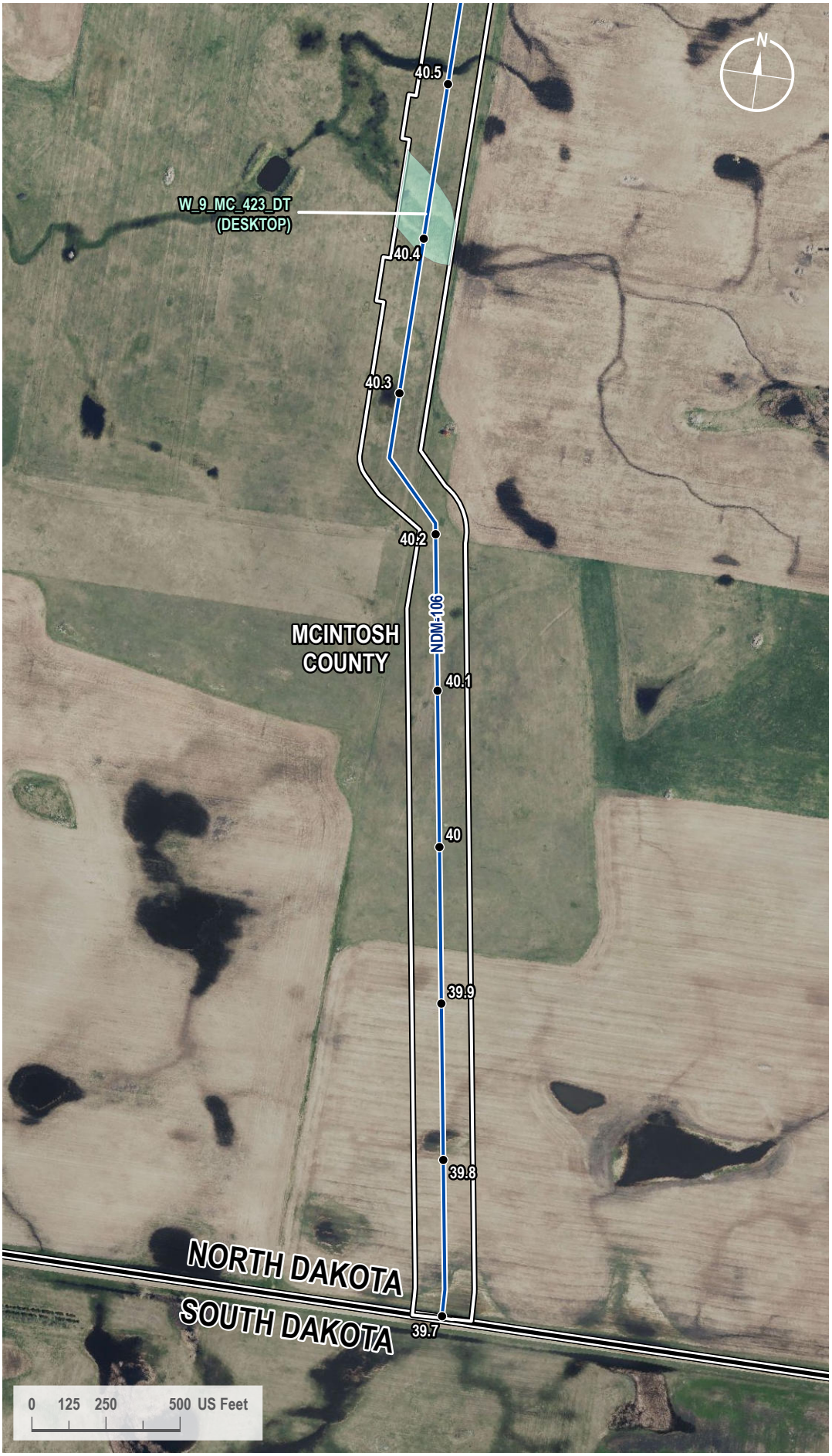

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- State Line
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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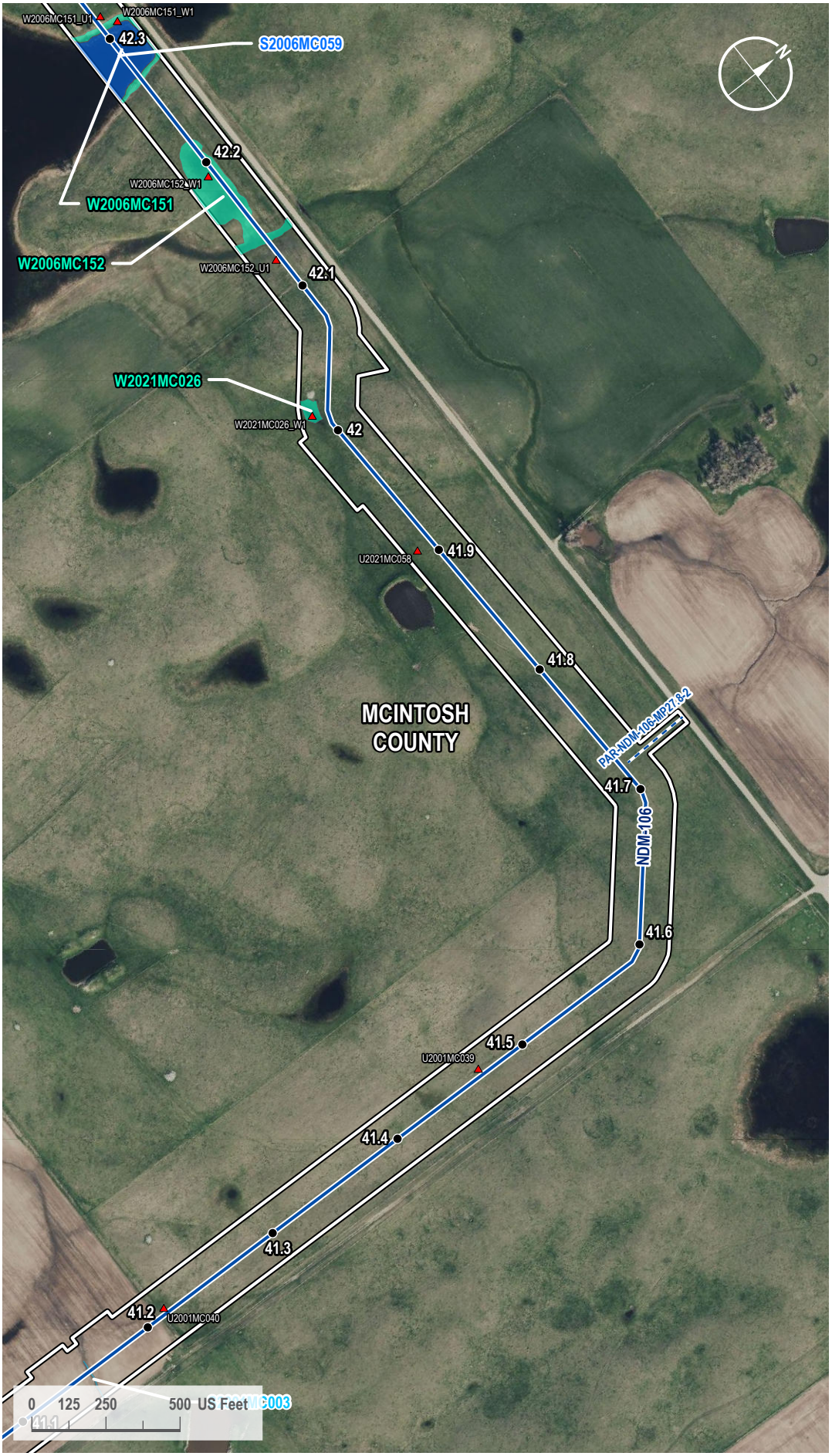

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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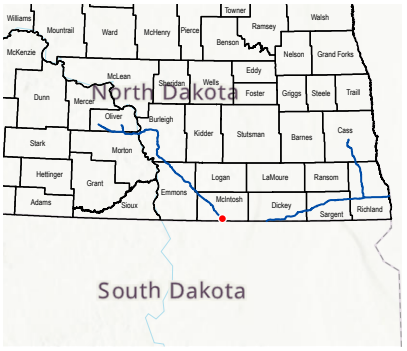

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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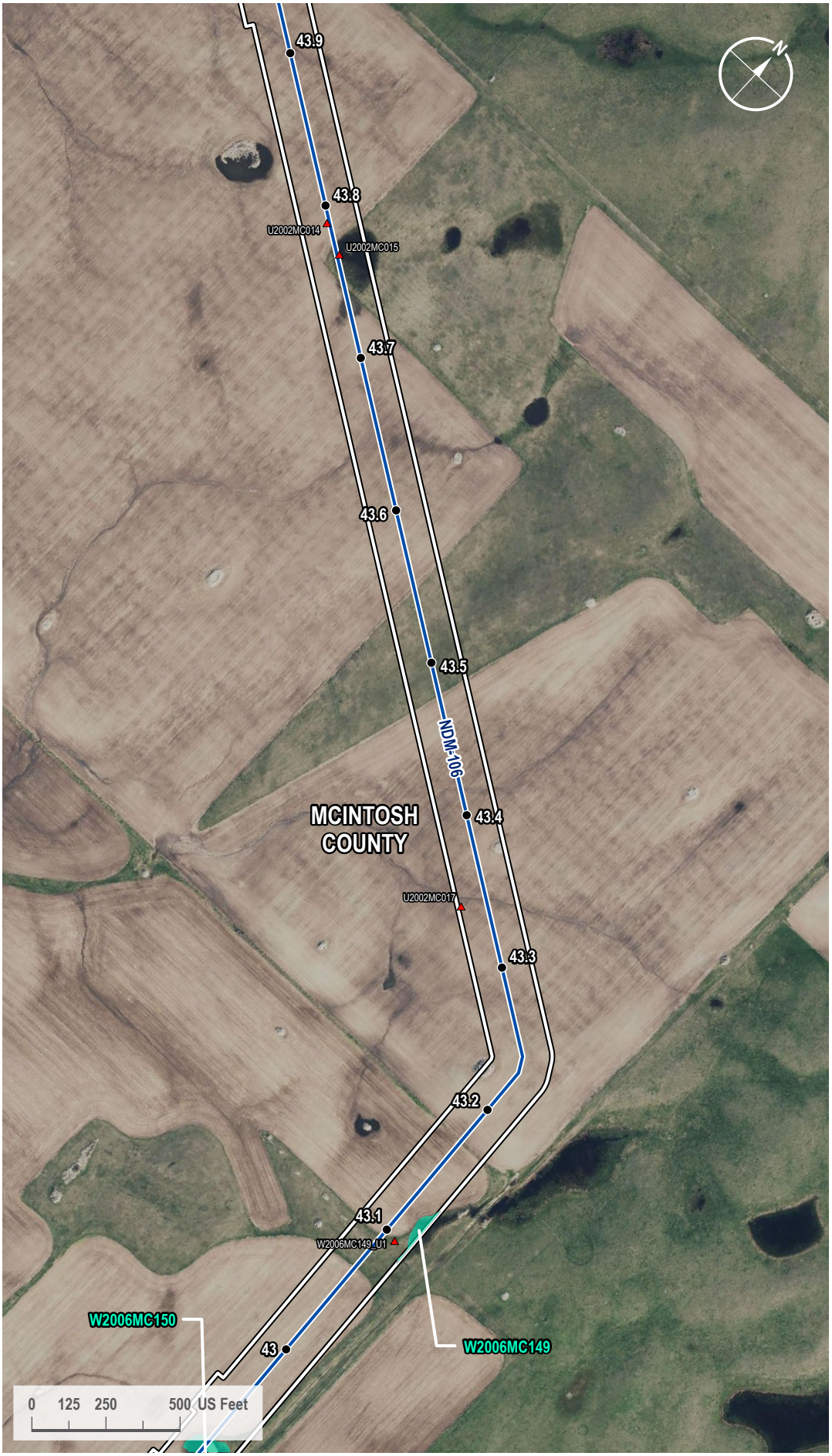

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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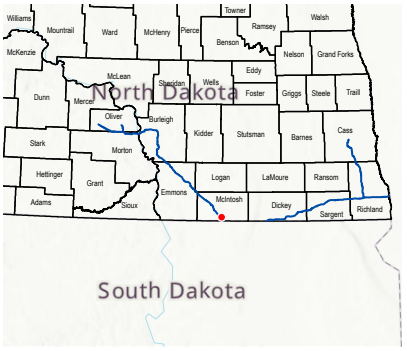

LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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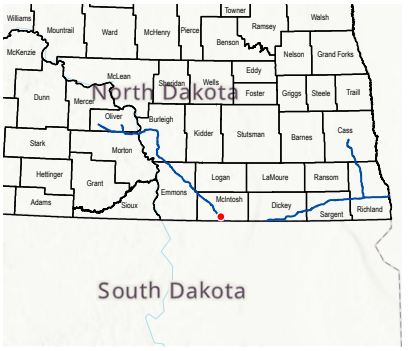

LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor

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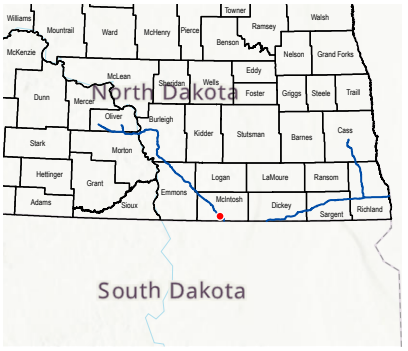

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- 200-foot Siting Corridor

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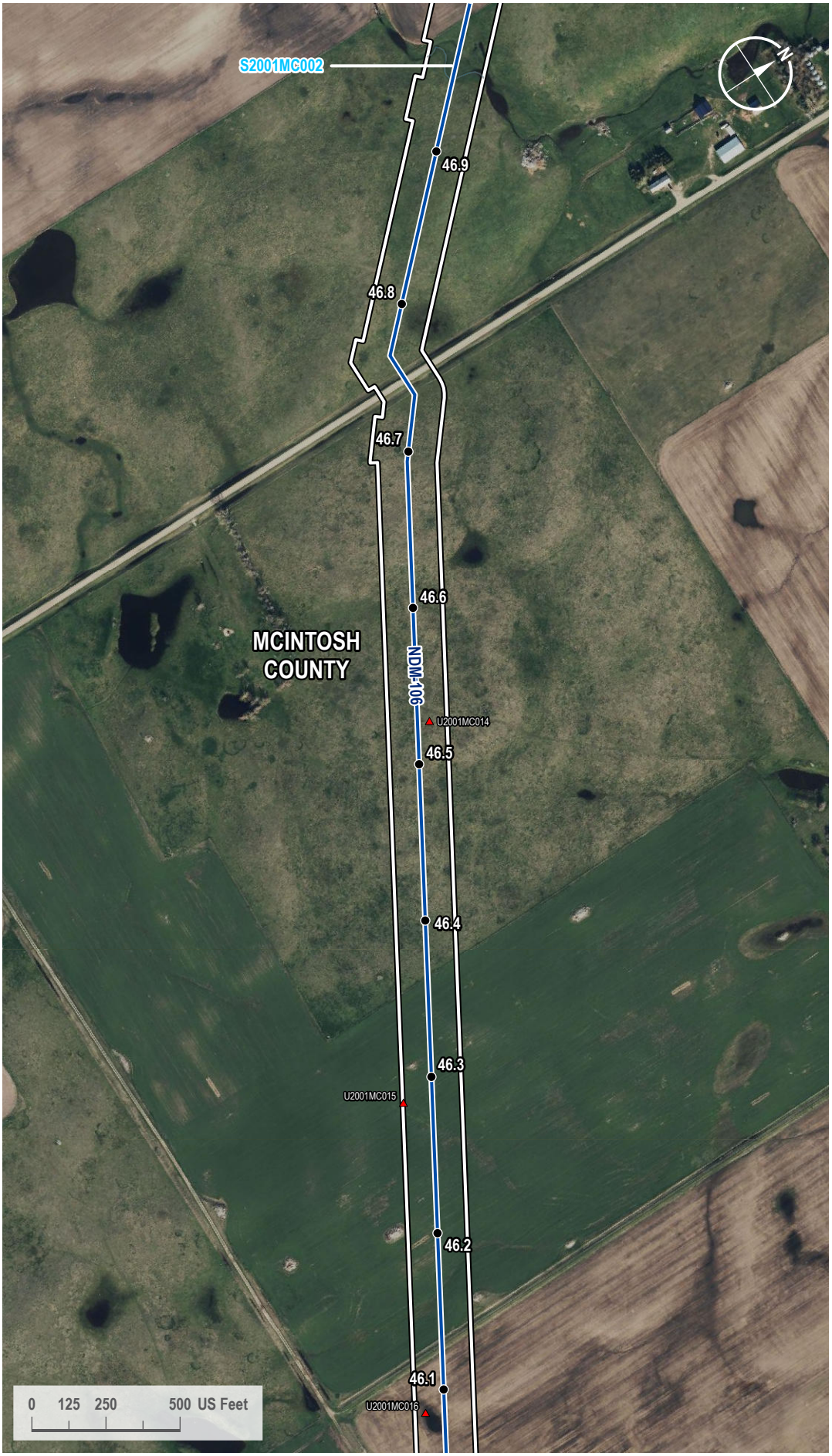

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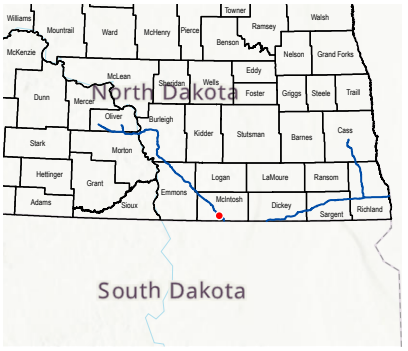

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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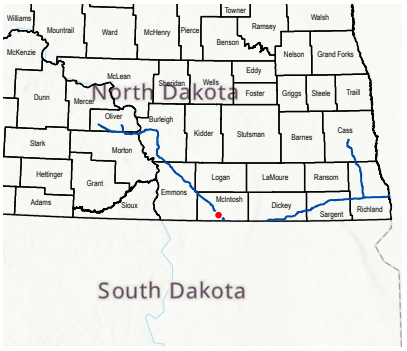

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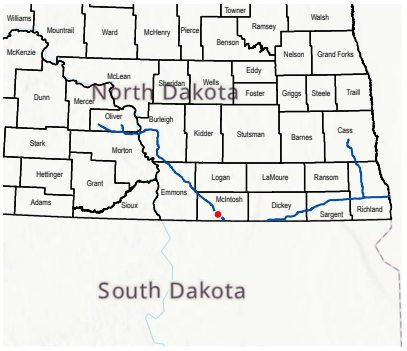

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Figure Title: Aerial Map

Figure Number: Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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AERIAL MAP



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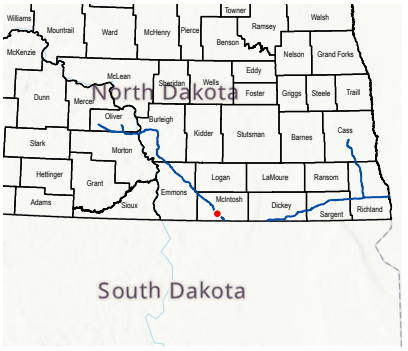

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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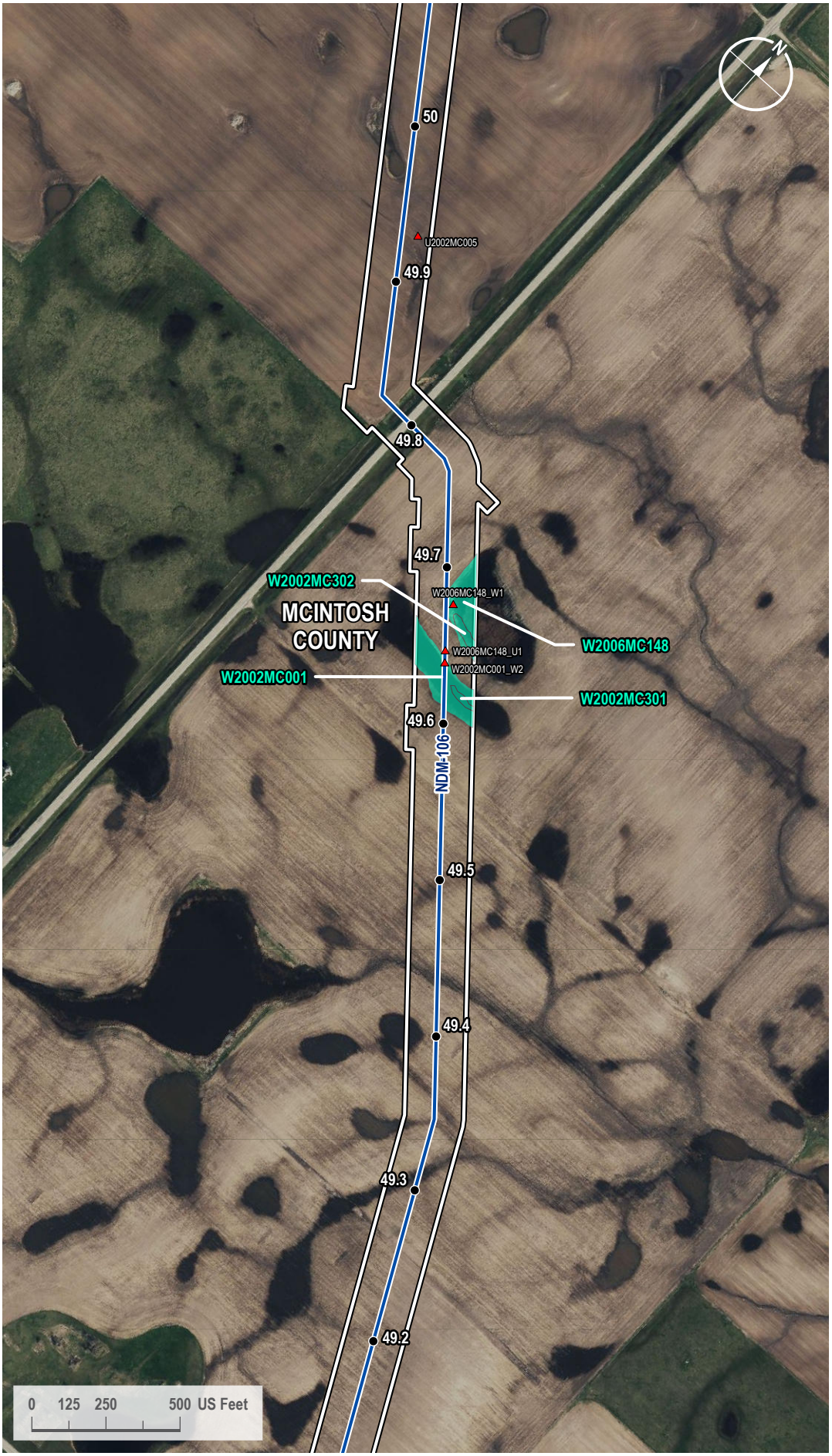

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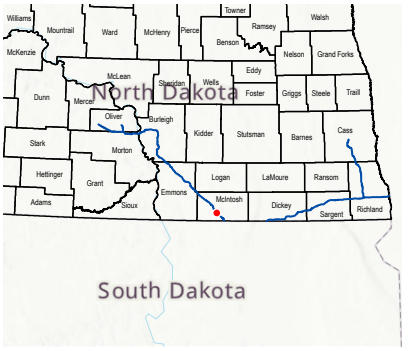

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

REVISIONS

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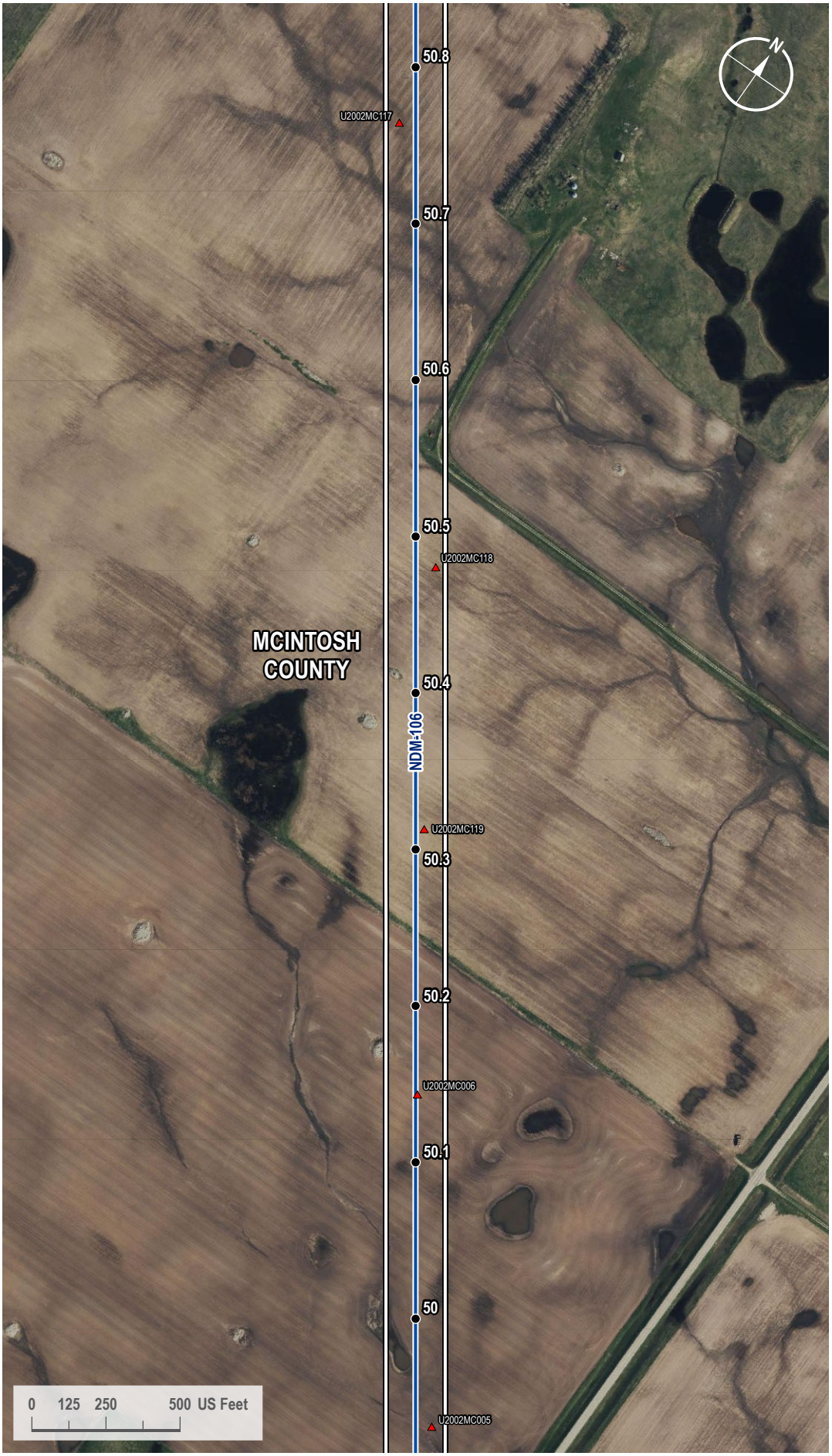

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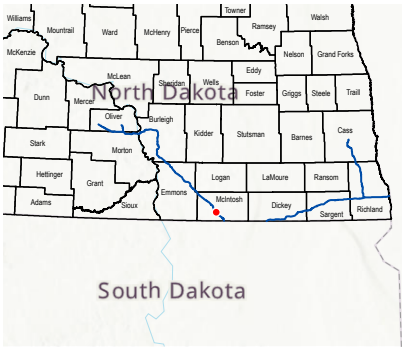

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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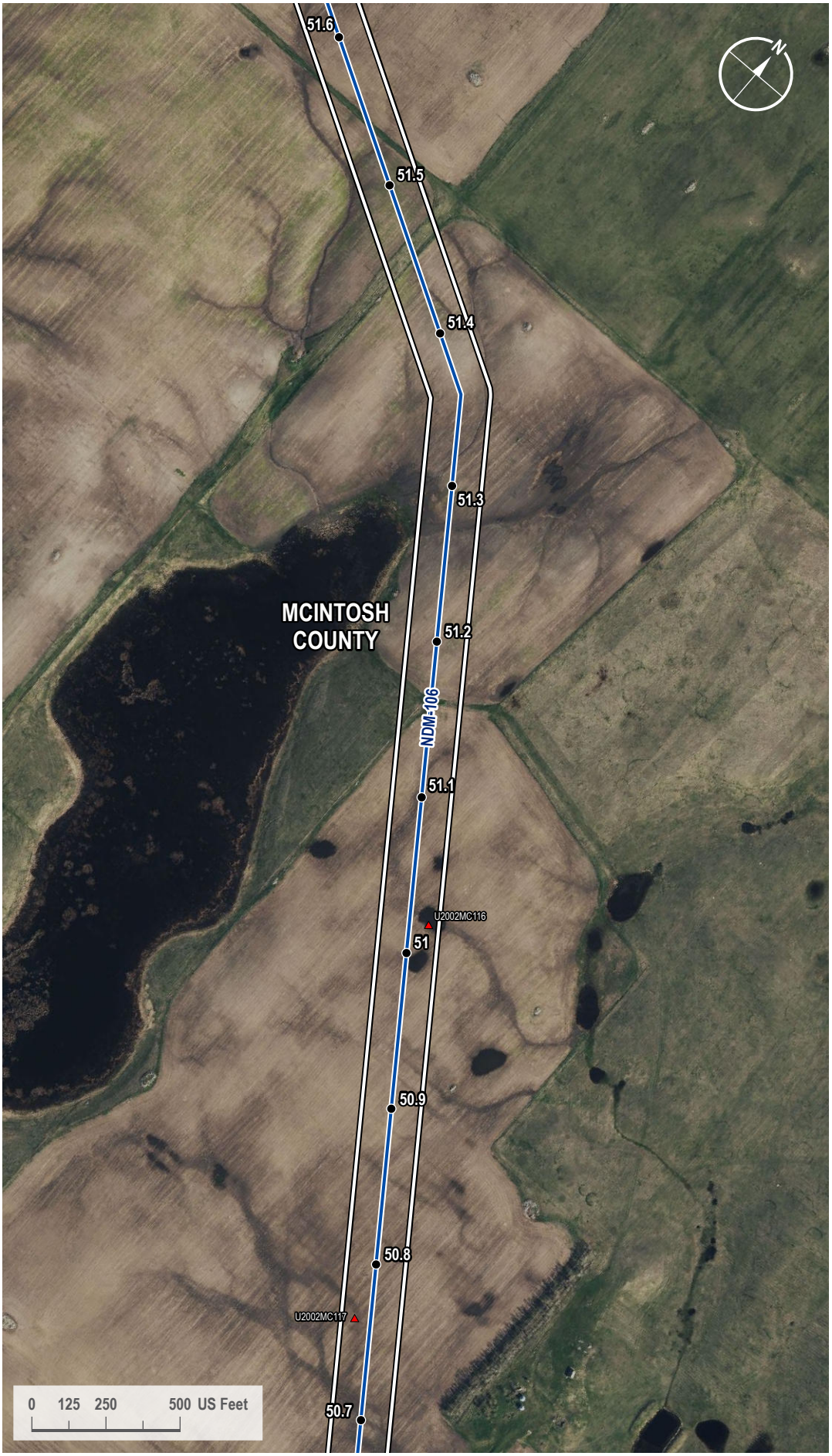

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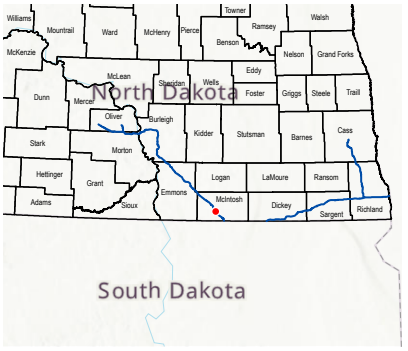

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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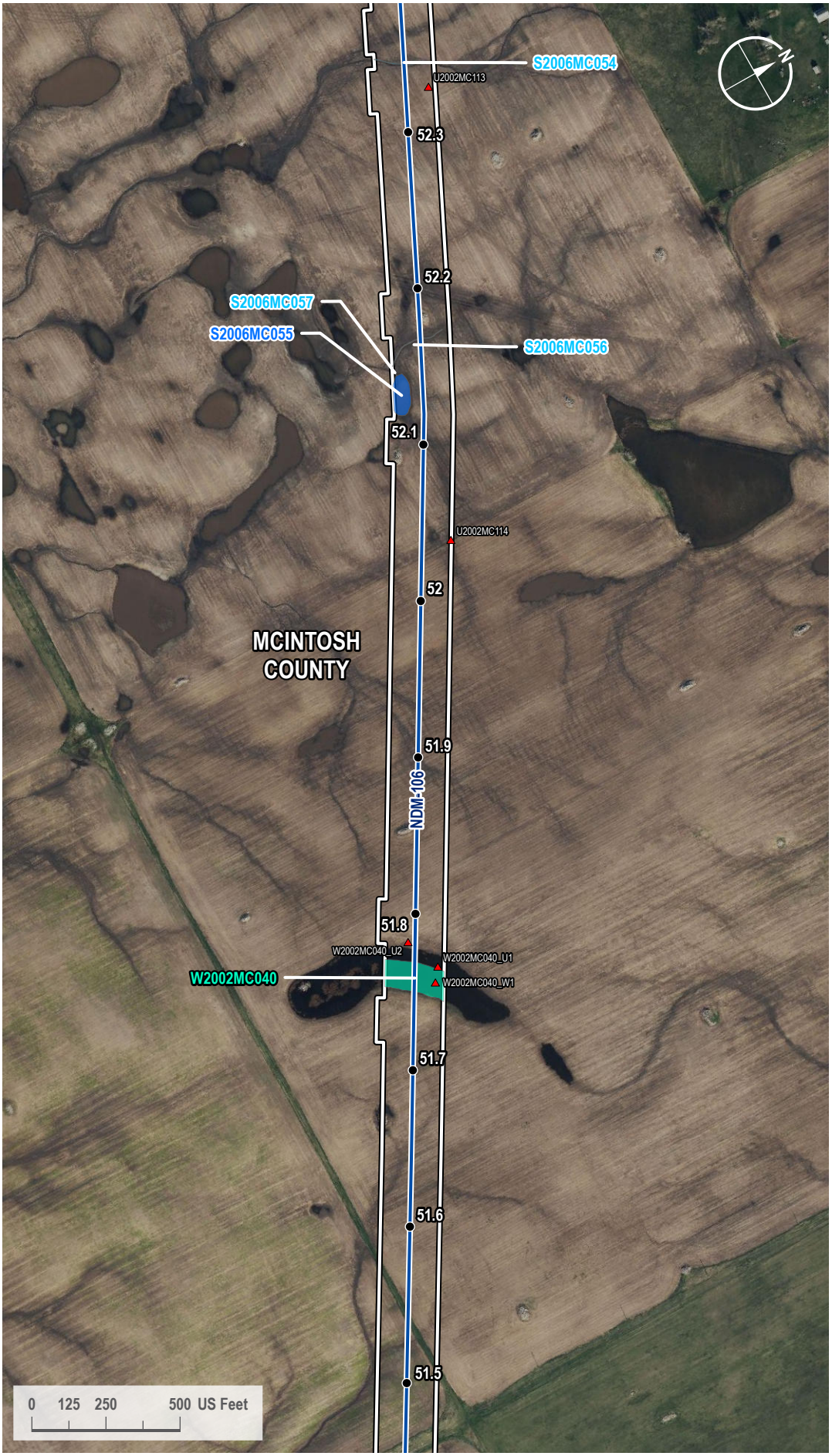

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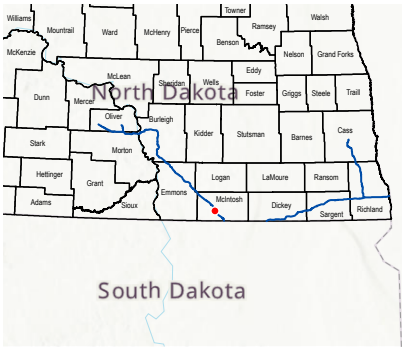

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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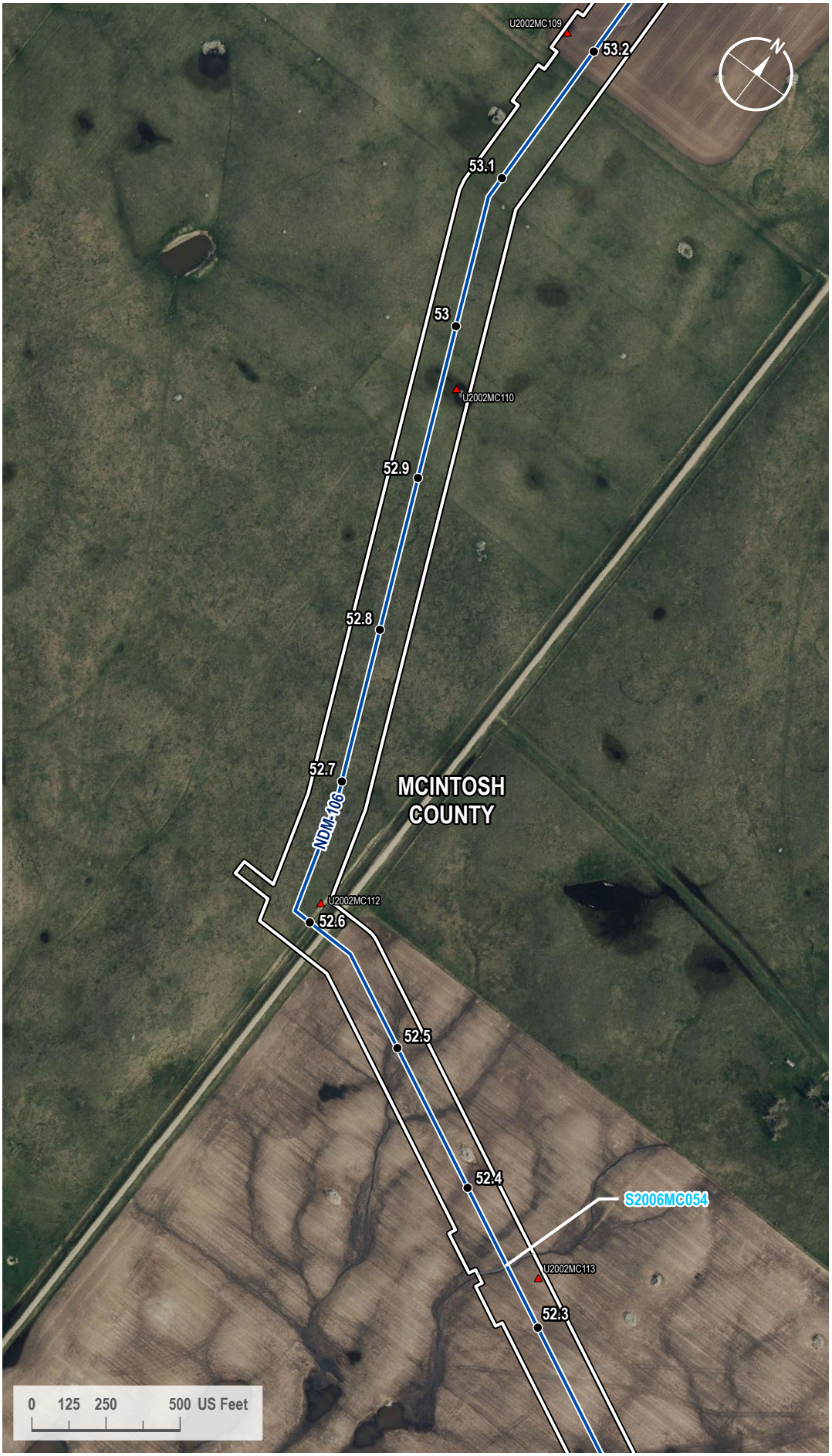

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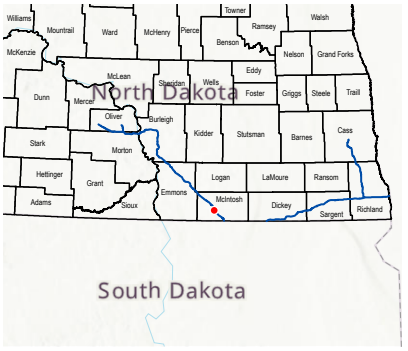

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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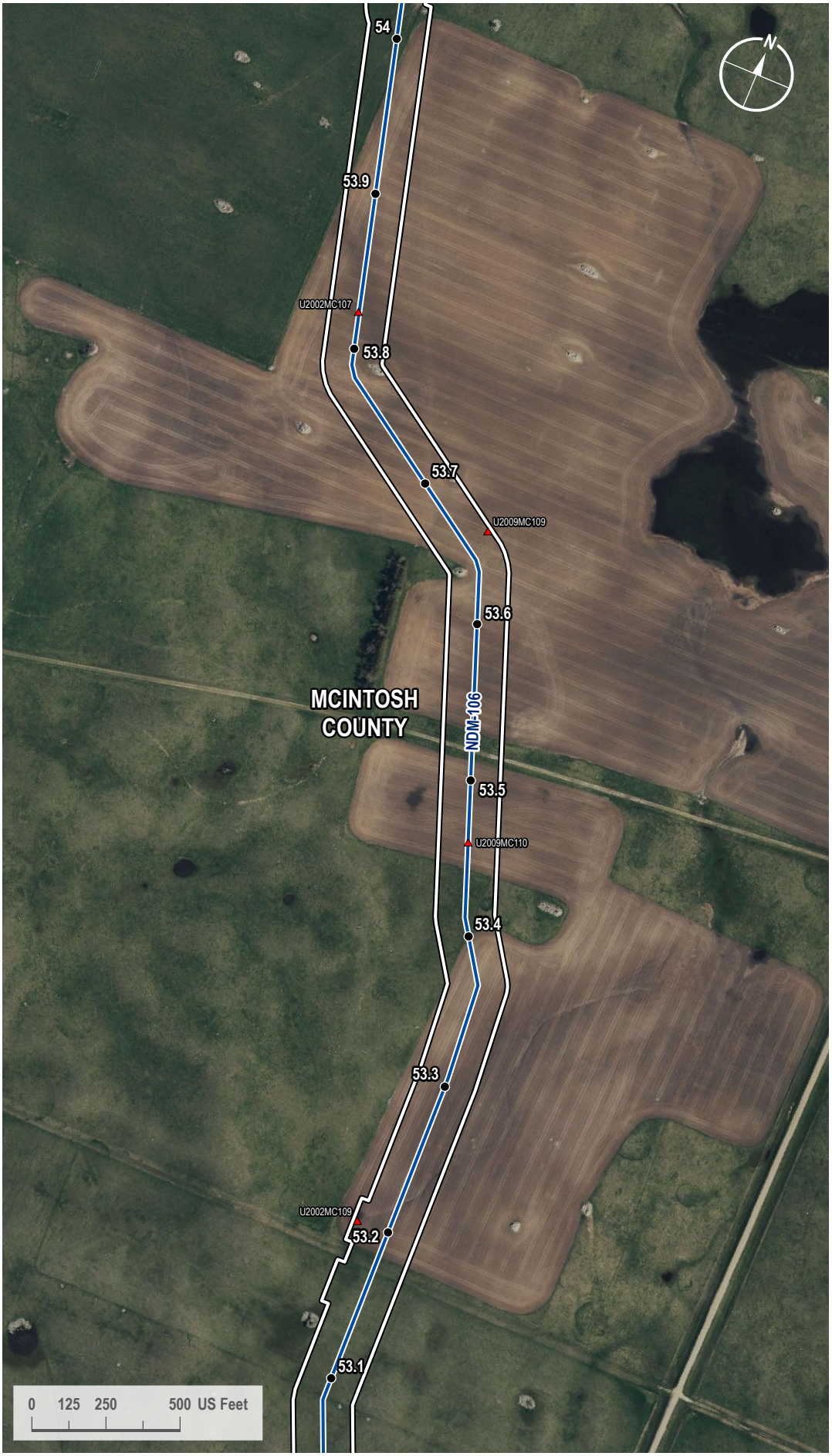

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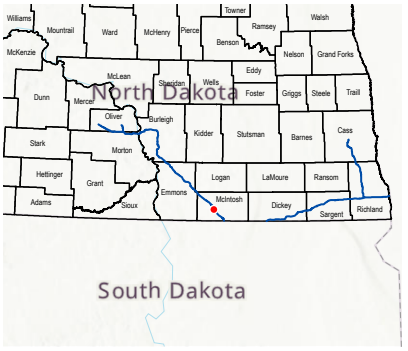

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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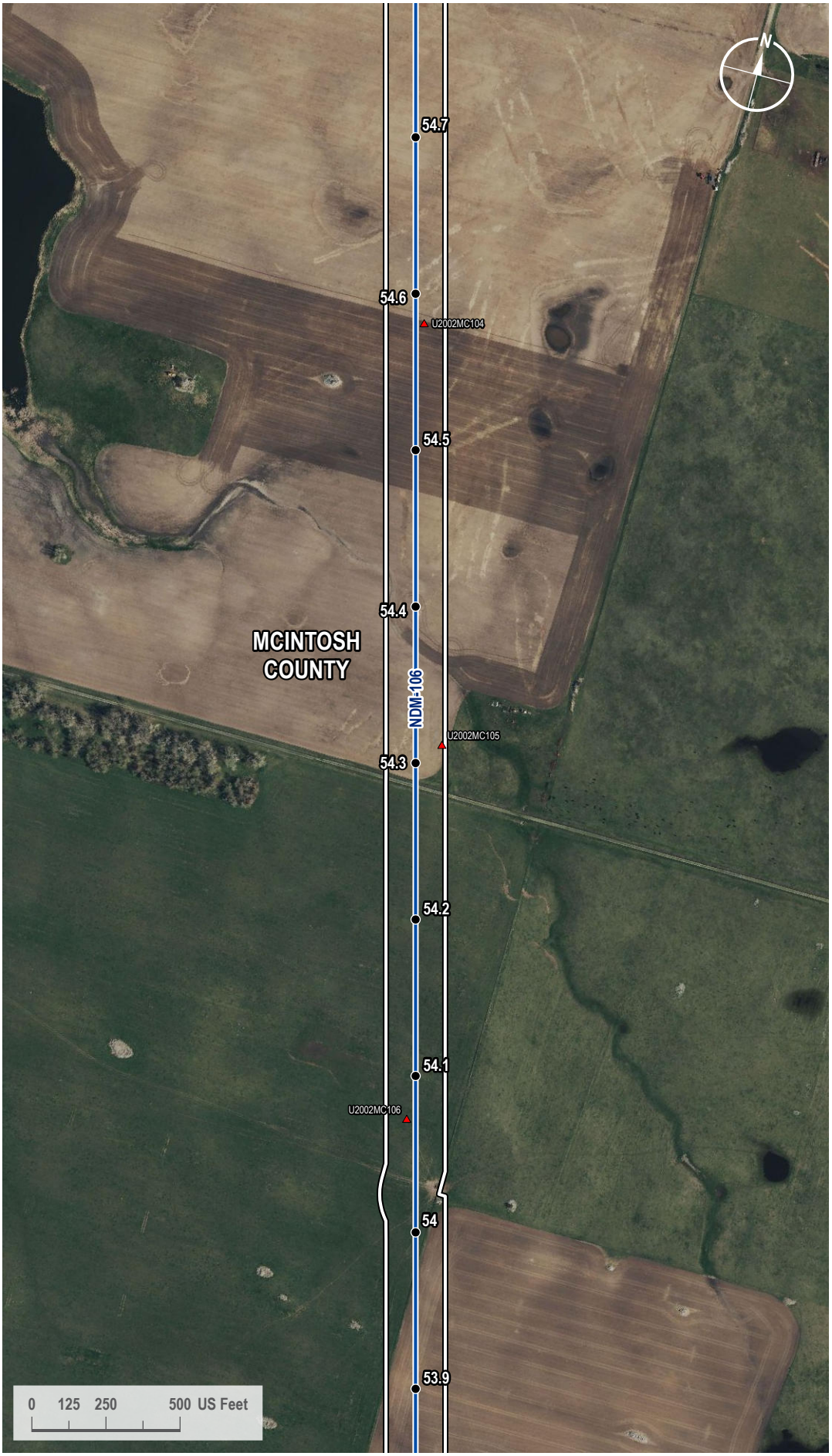

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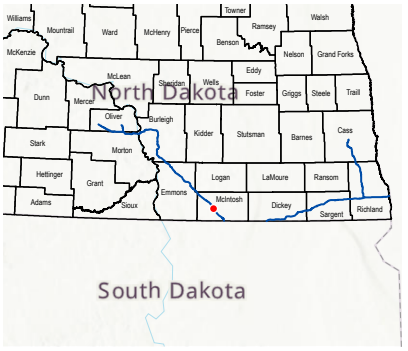

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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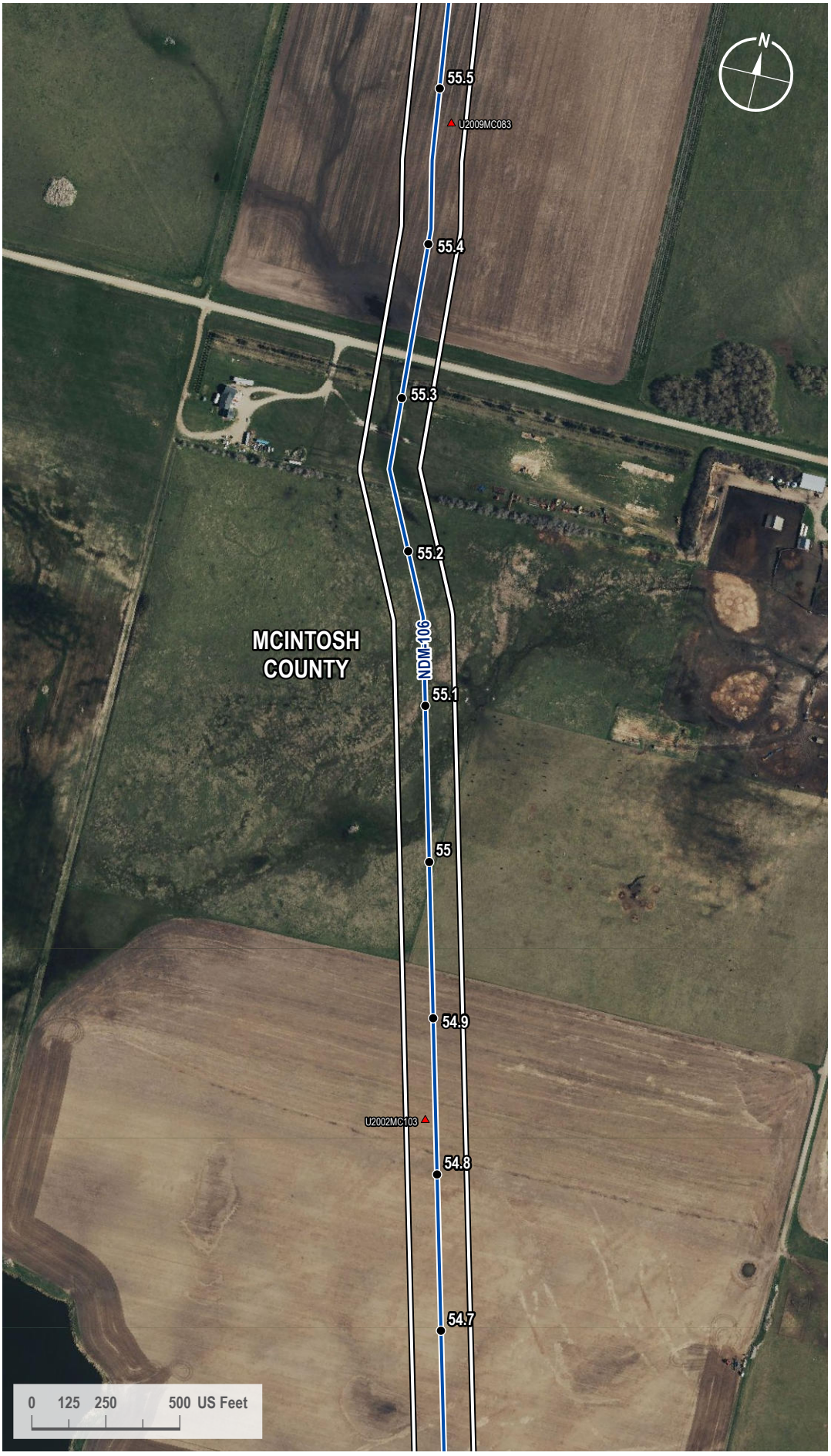

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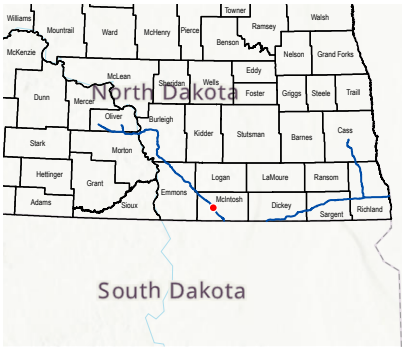

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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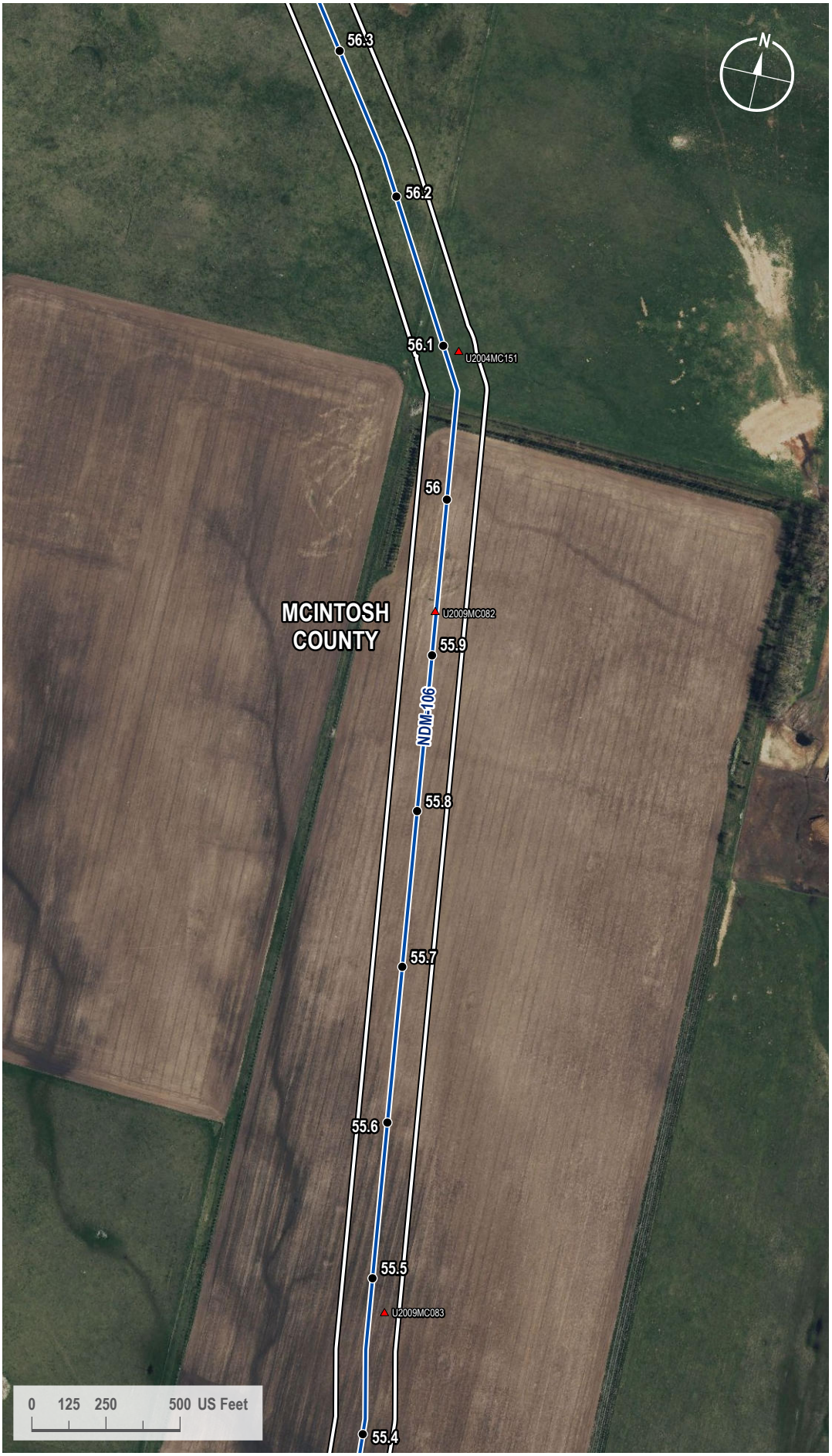

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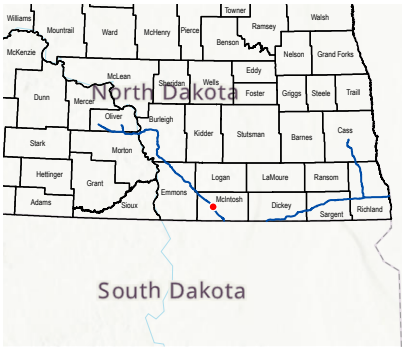

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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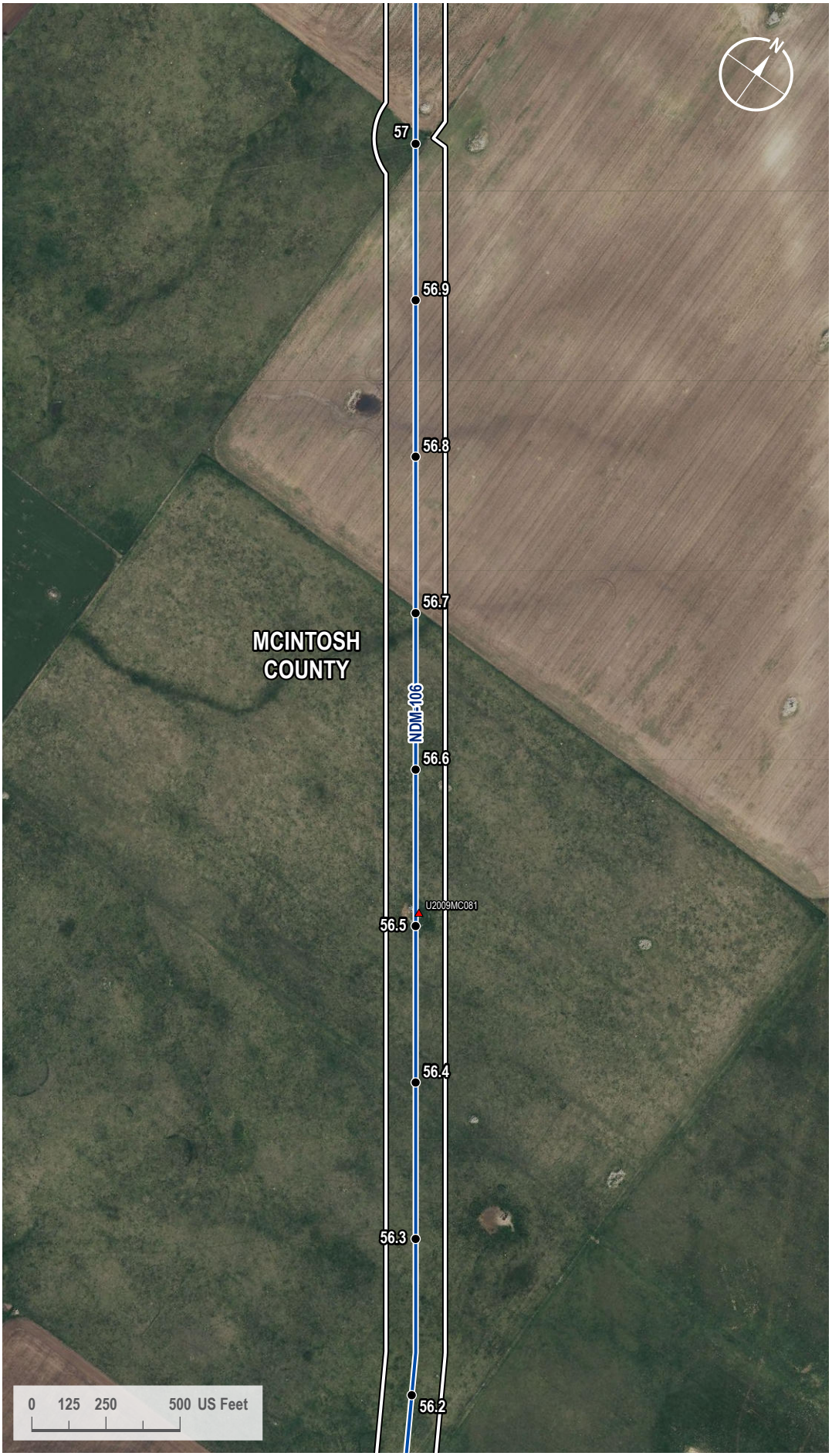

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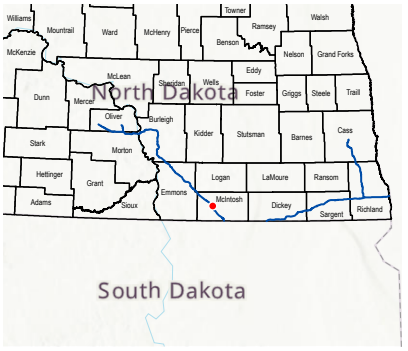

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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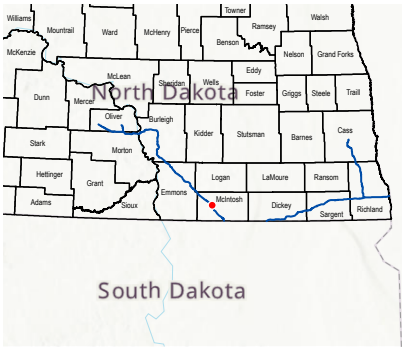

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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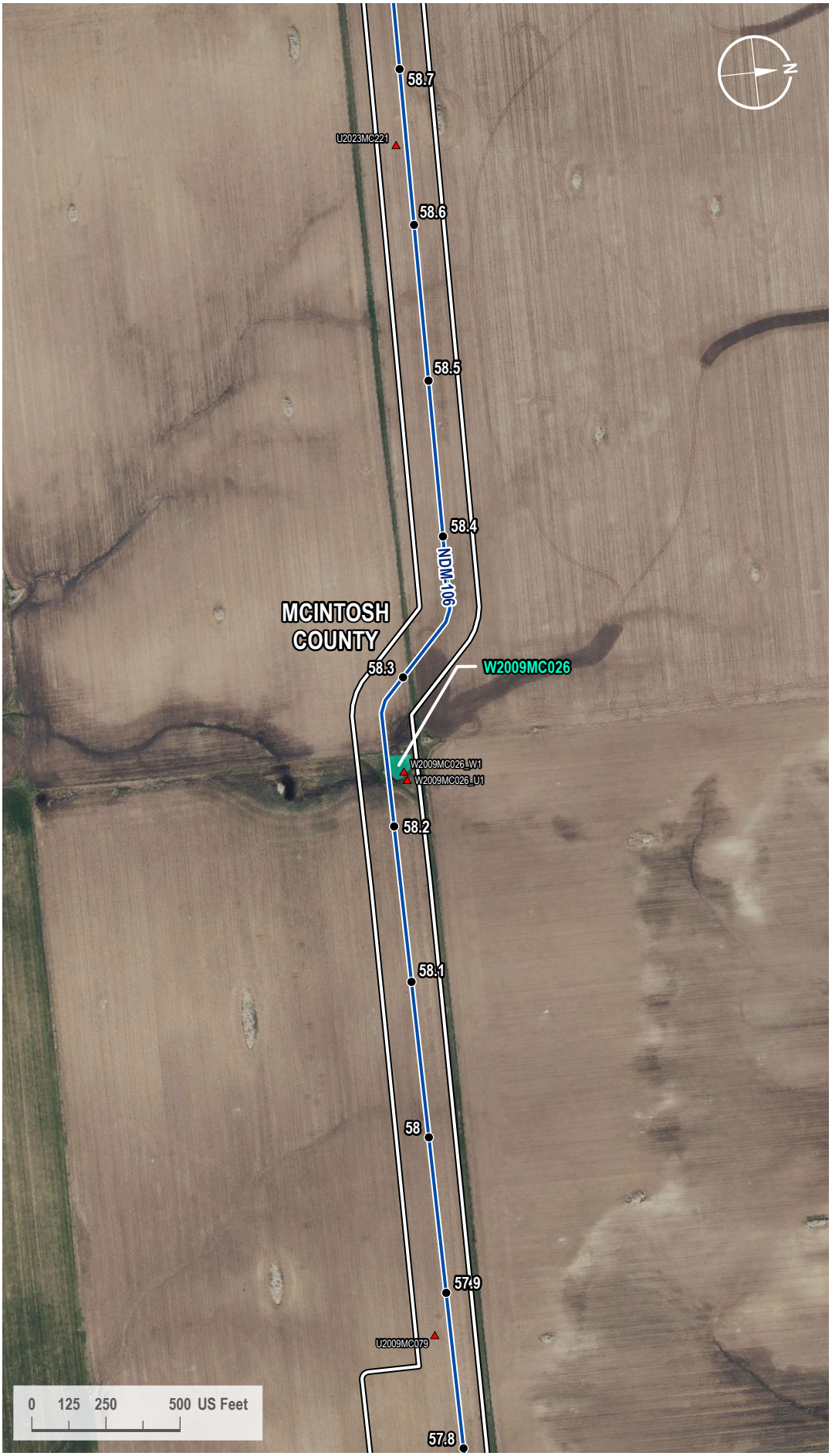

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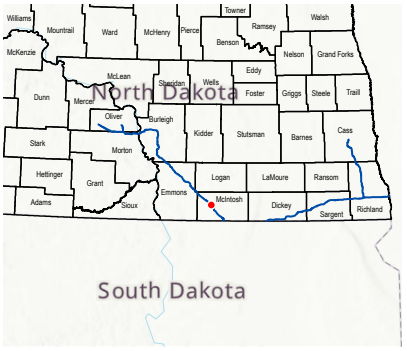

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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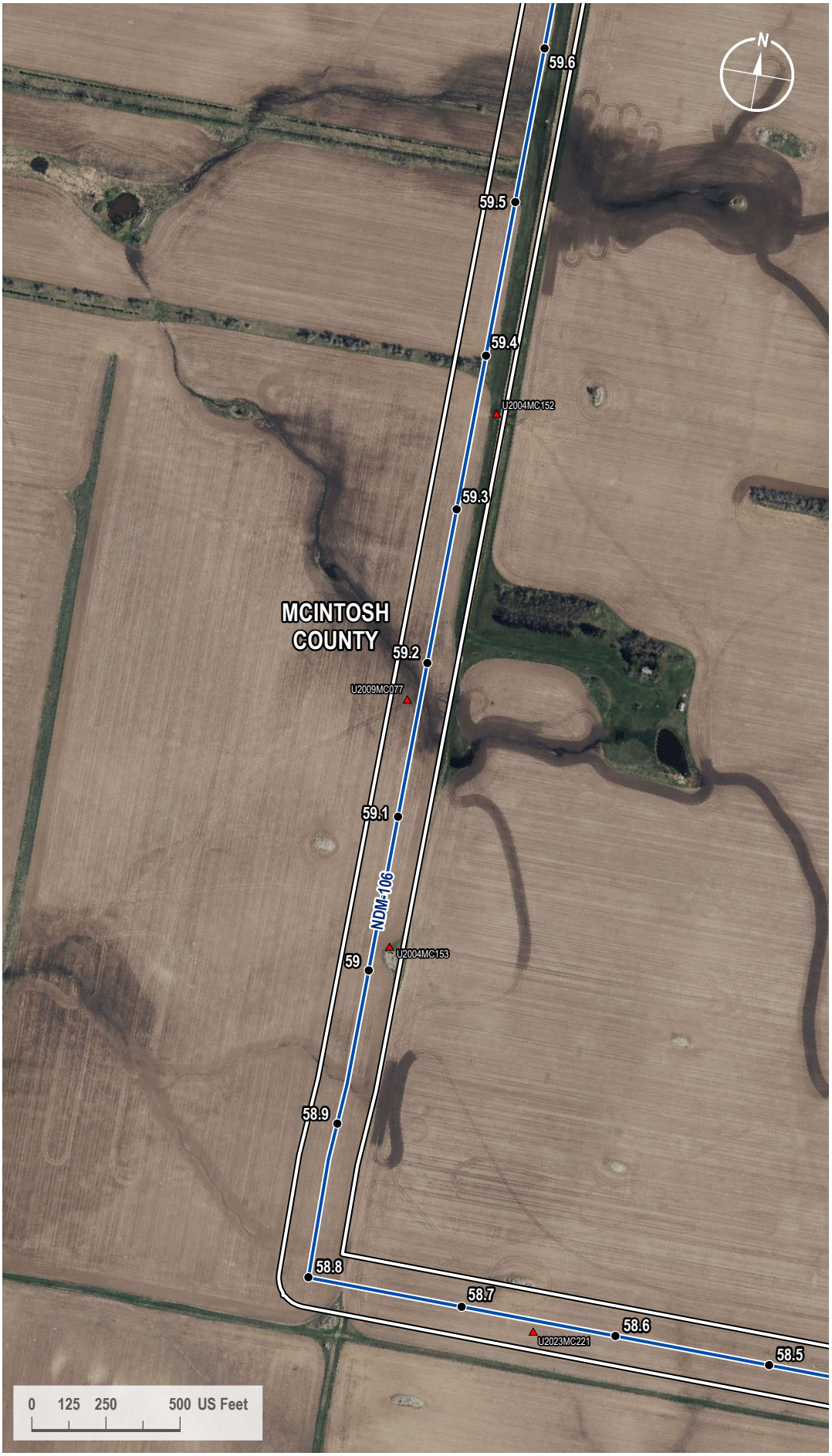

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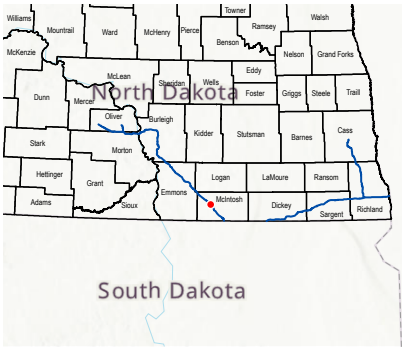

LEGEND

- Milepost
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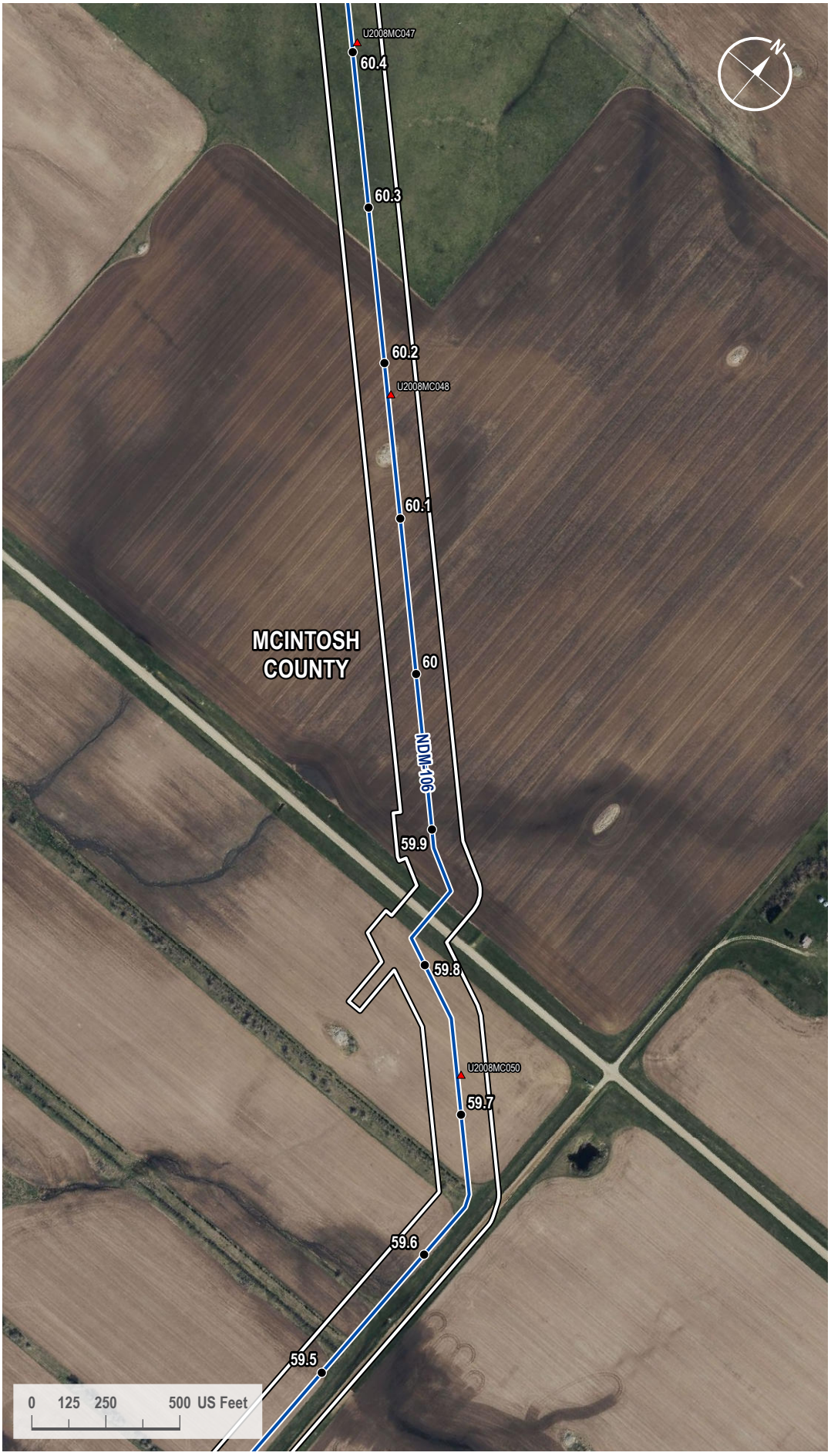
AERIAL MAP



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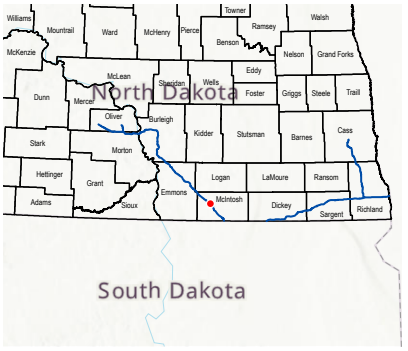

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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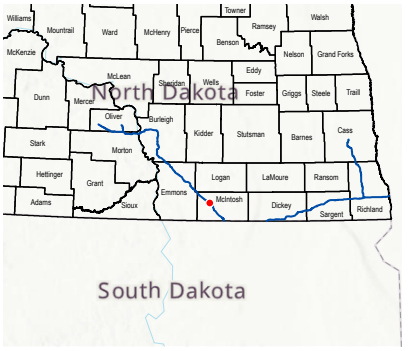
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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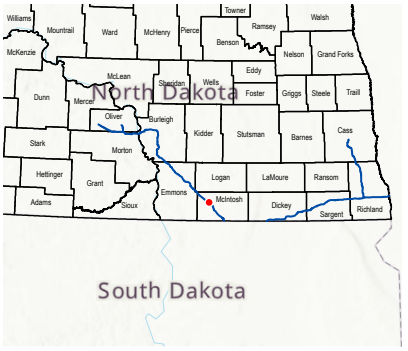

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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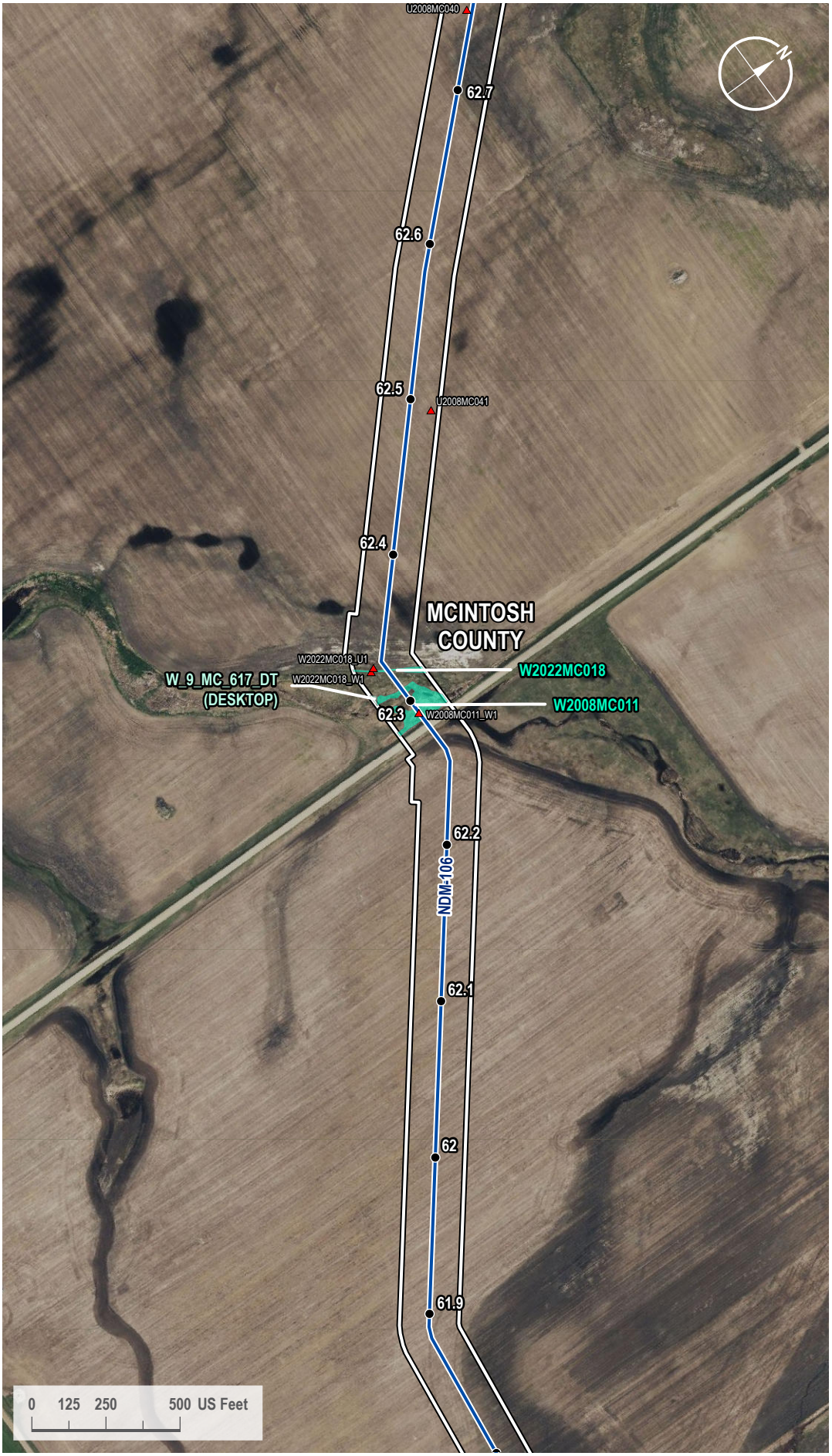

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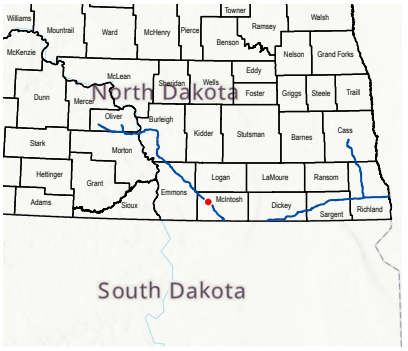

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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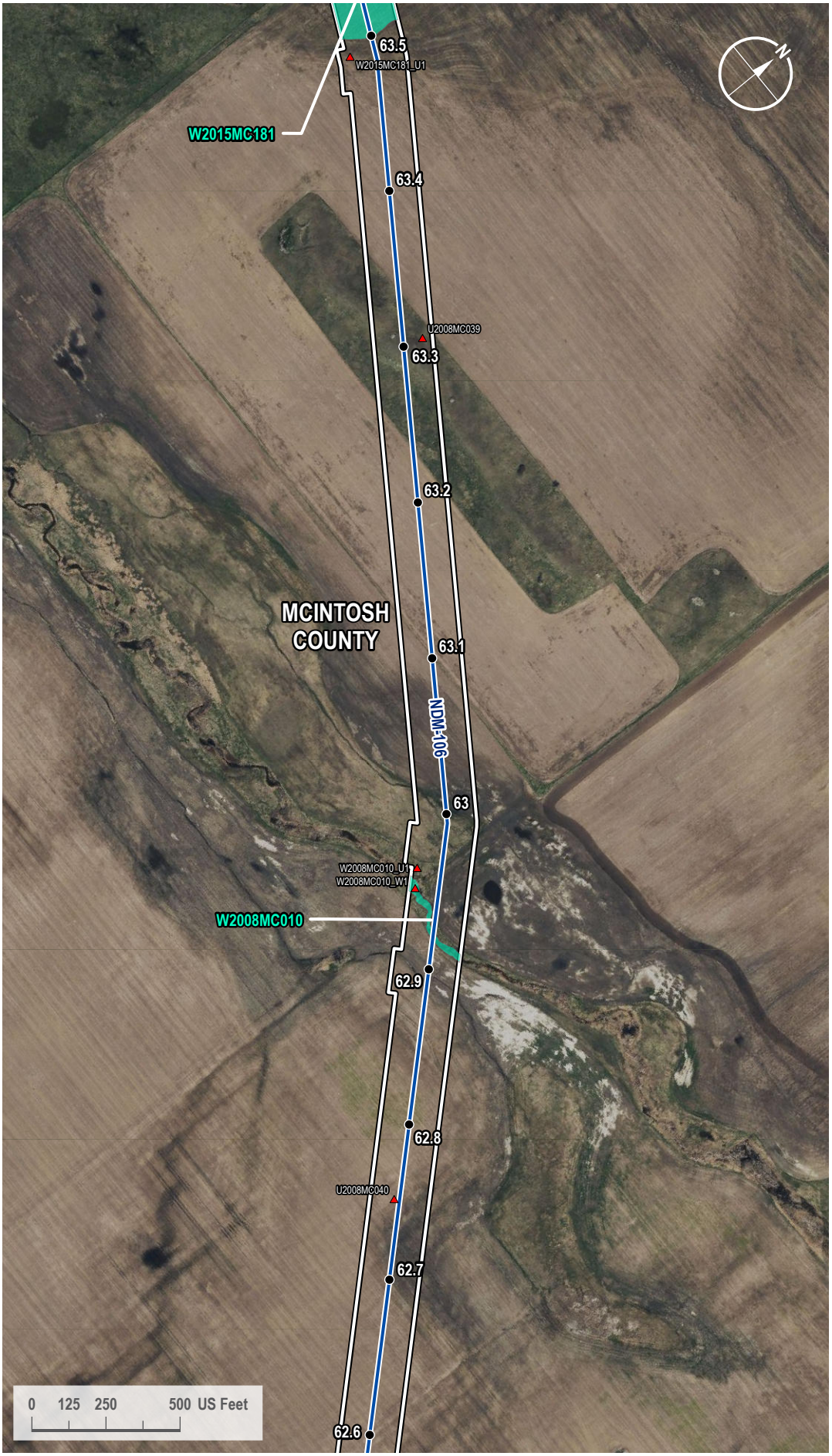

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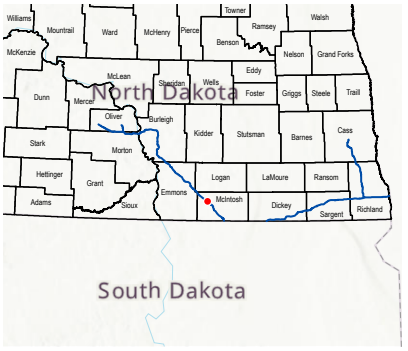

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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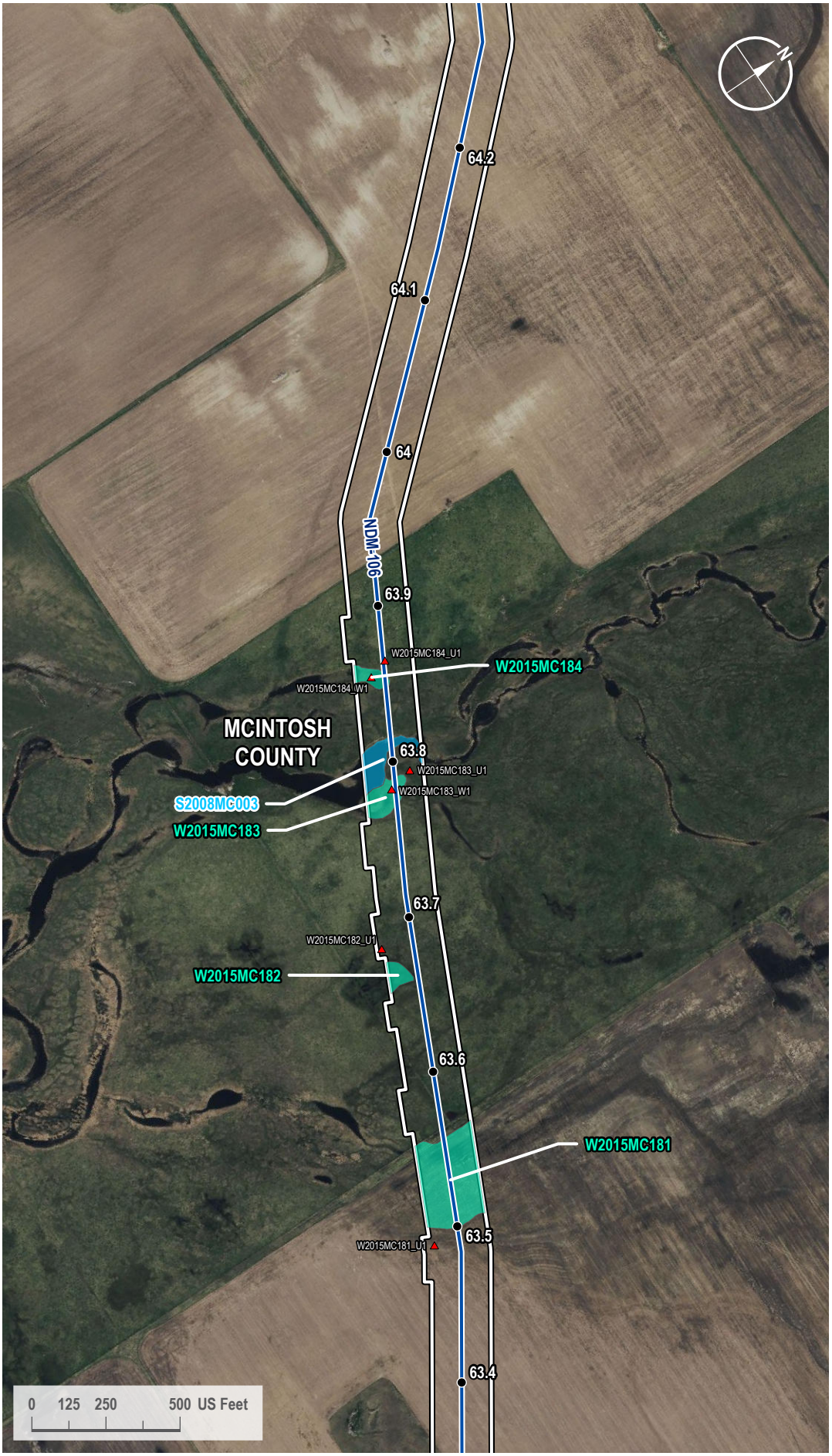

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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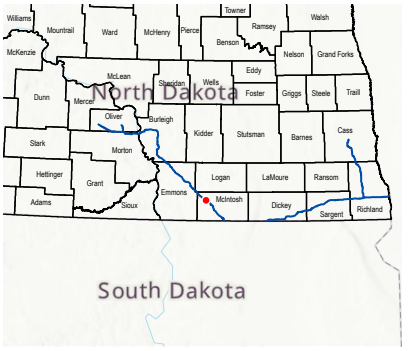
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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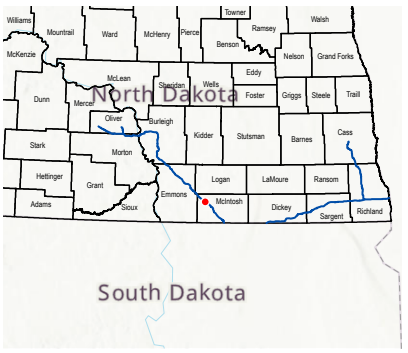

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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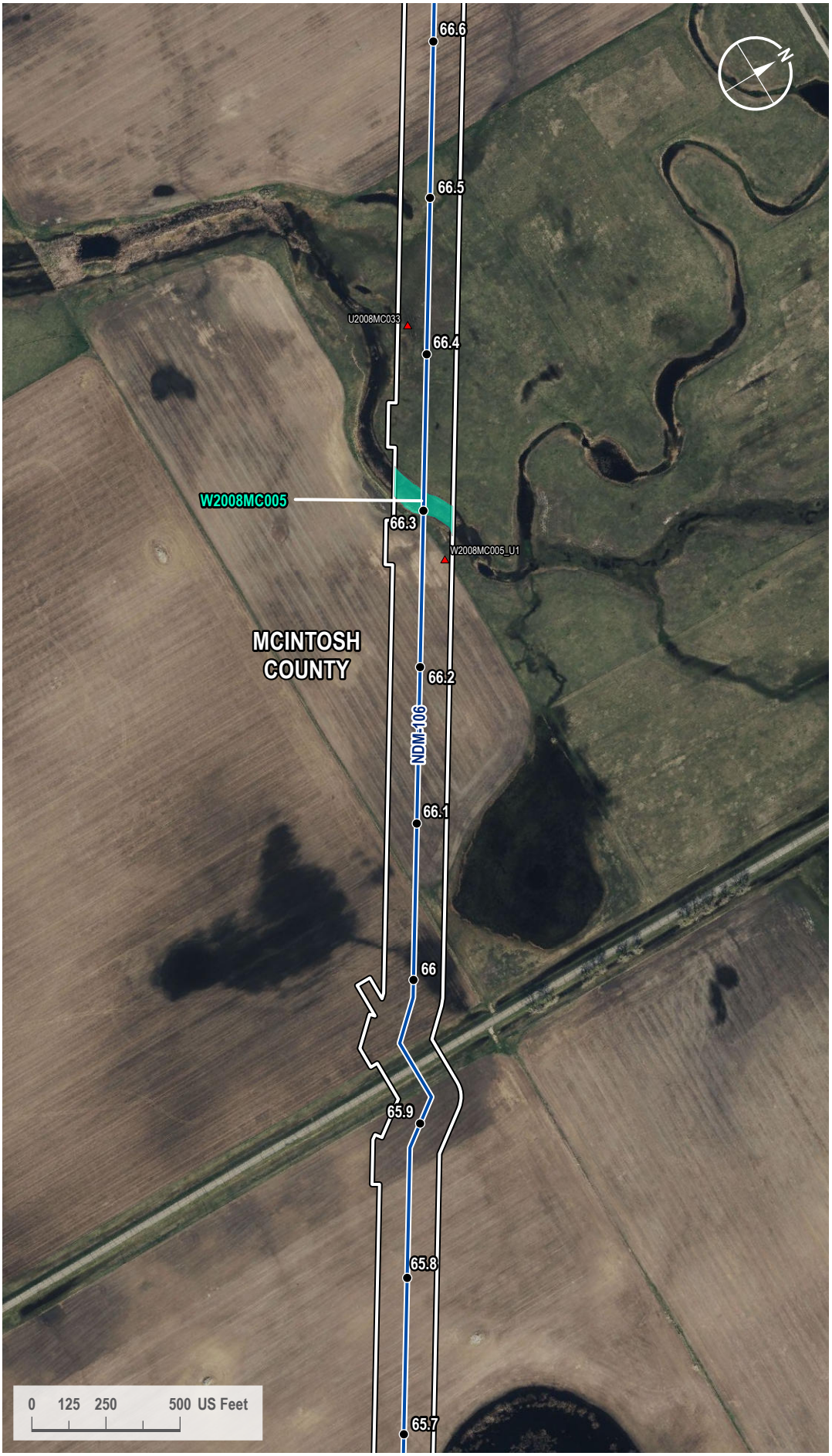

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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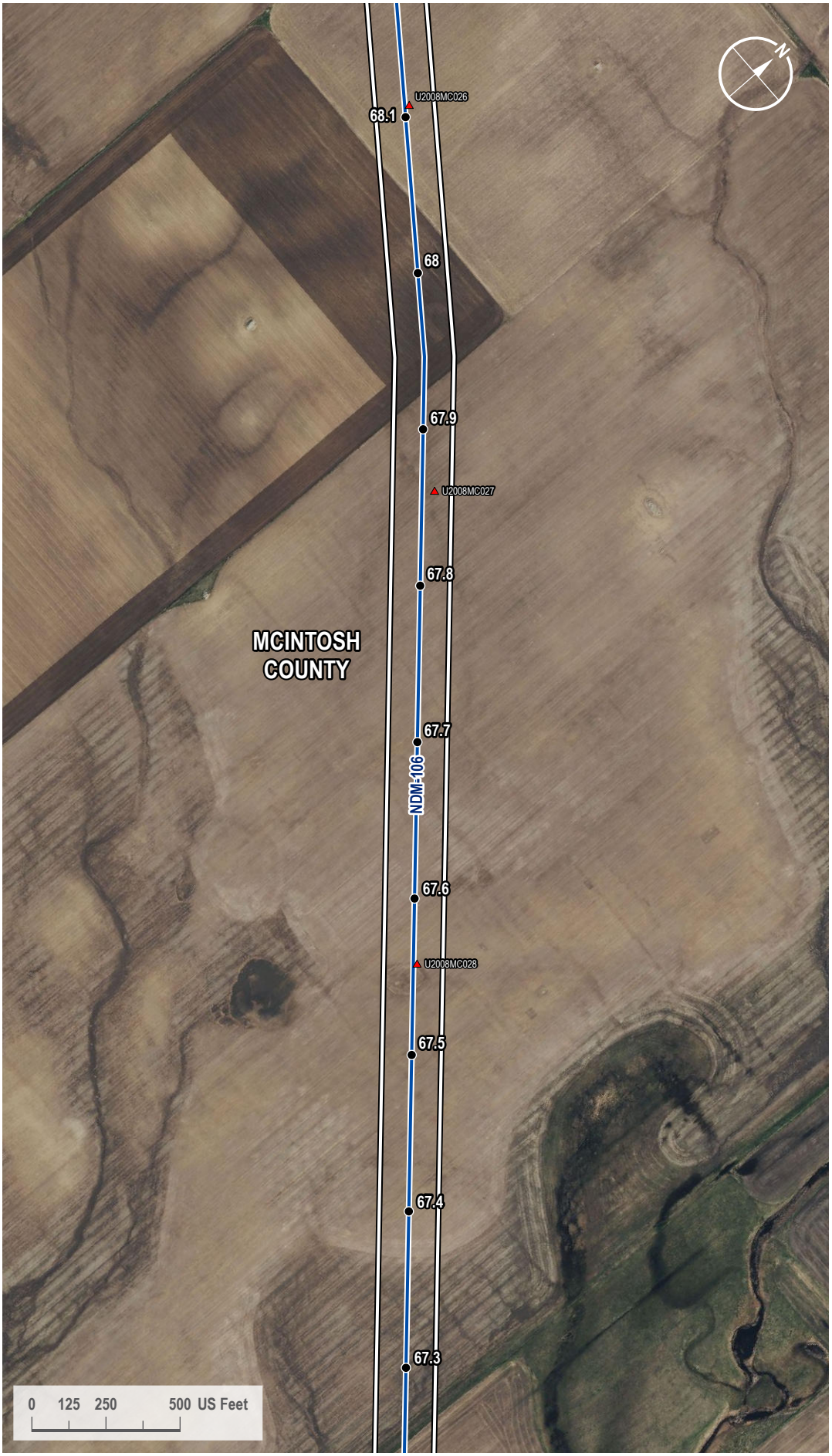

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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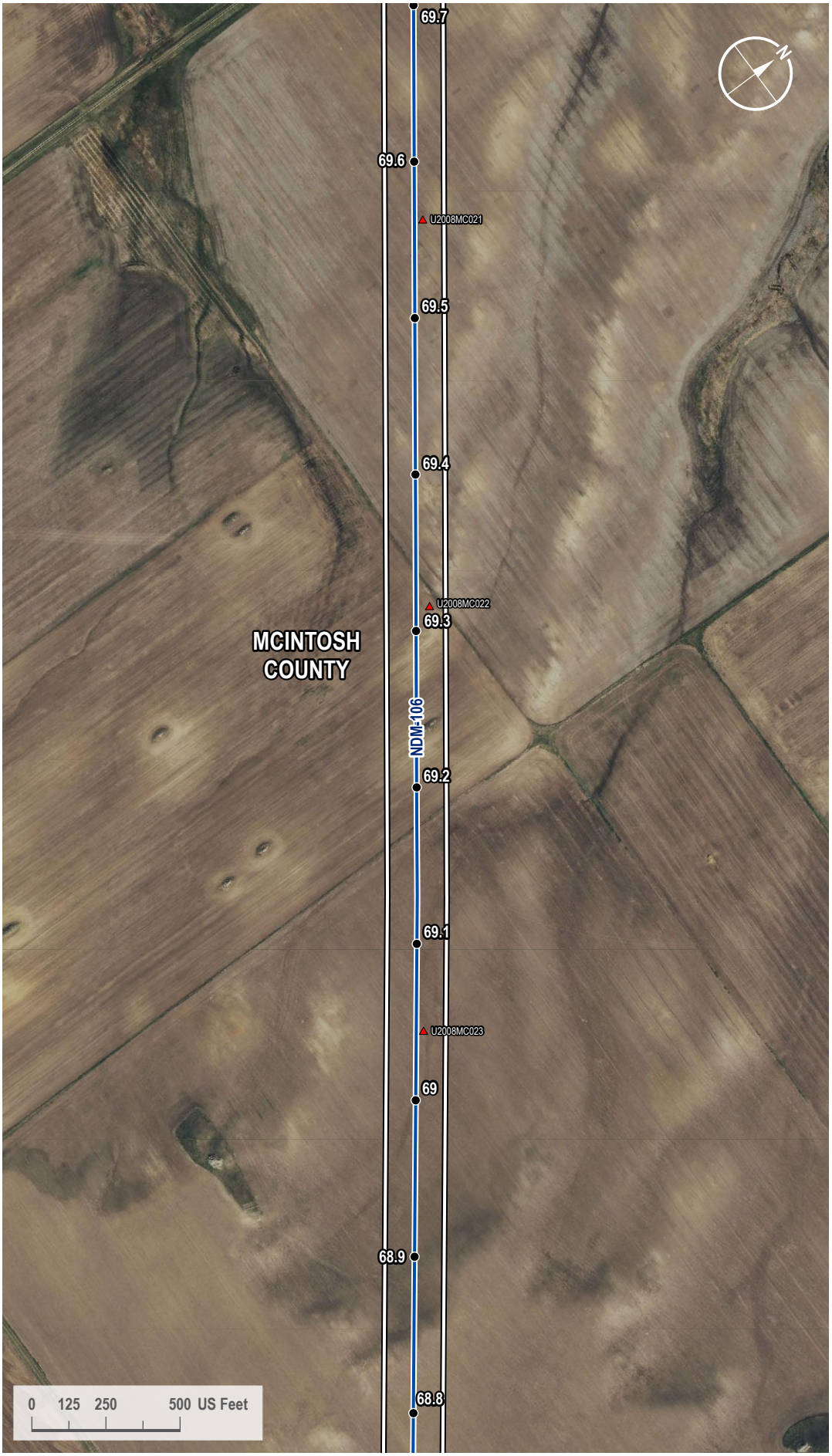

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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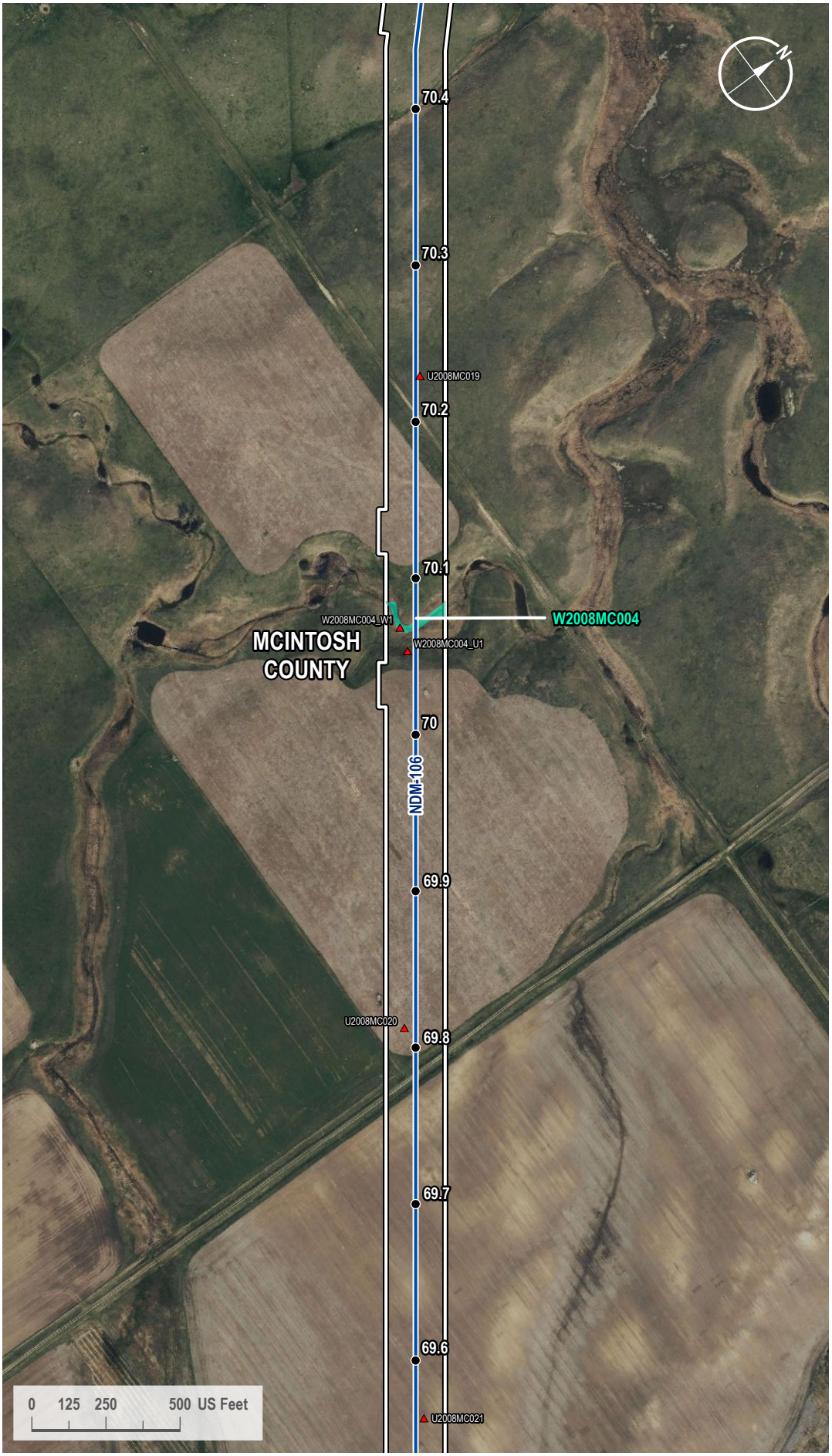

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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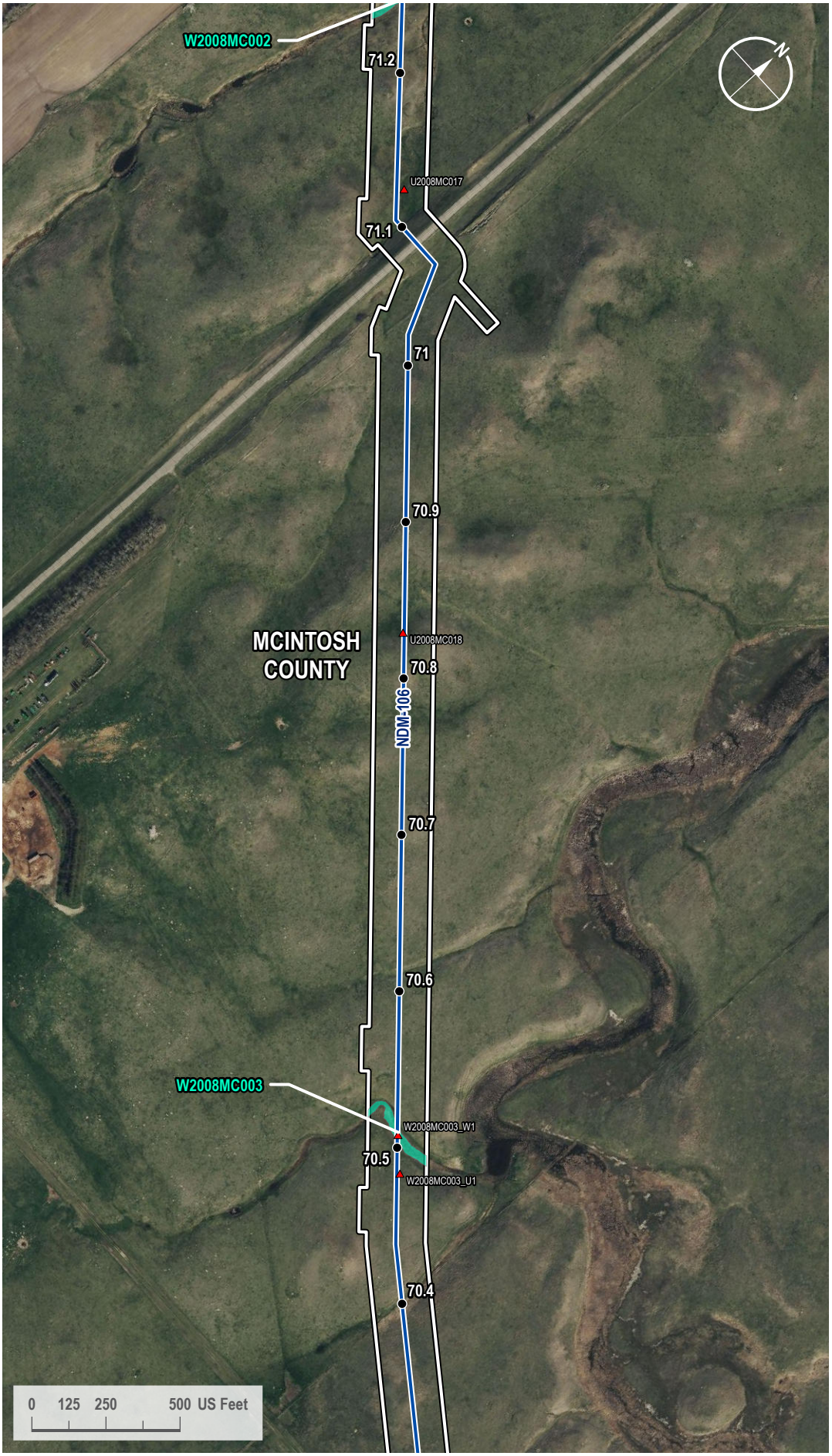

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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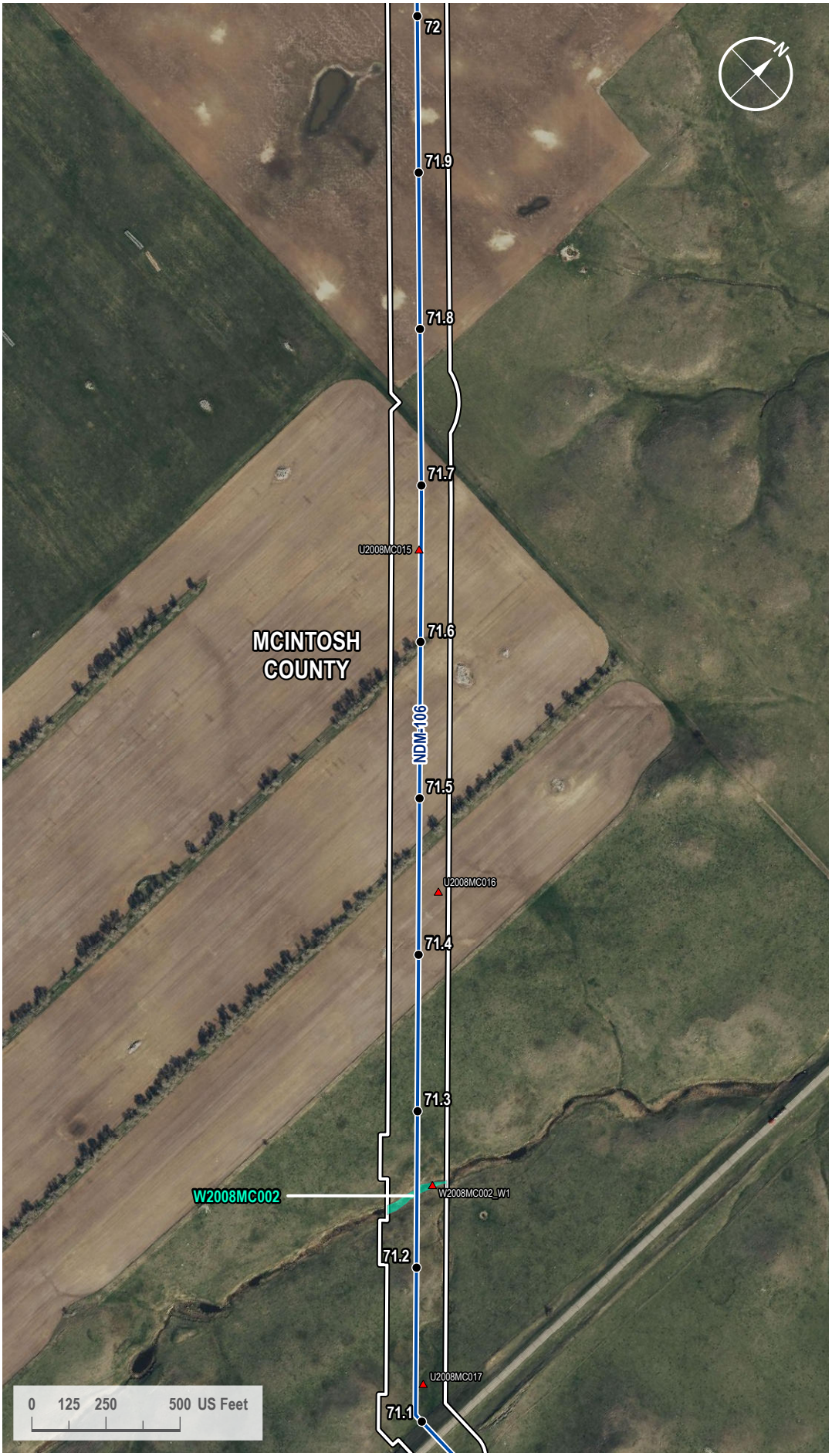

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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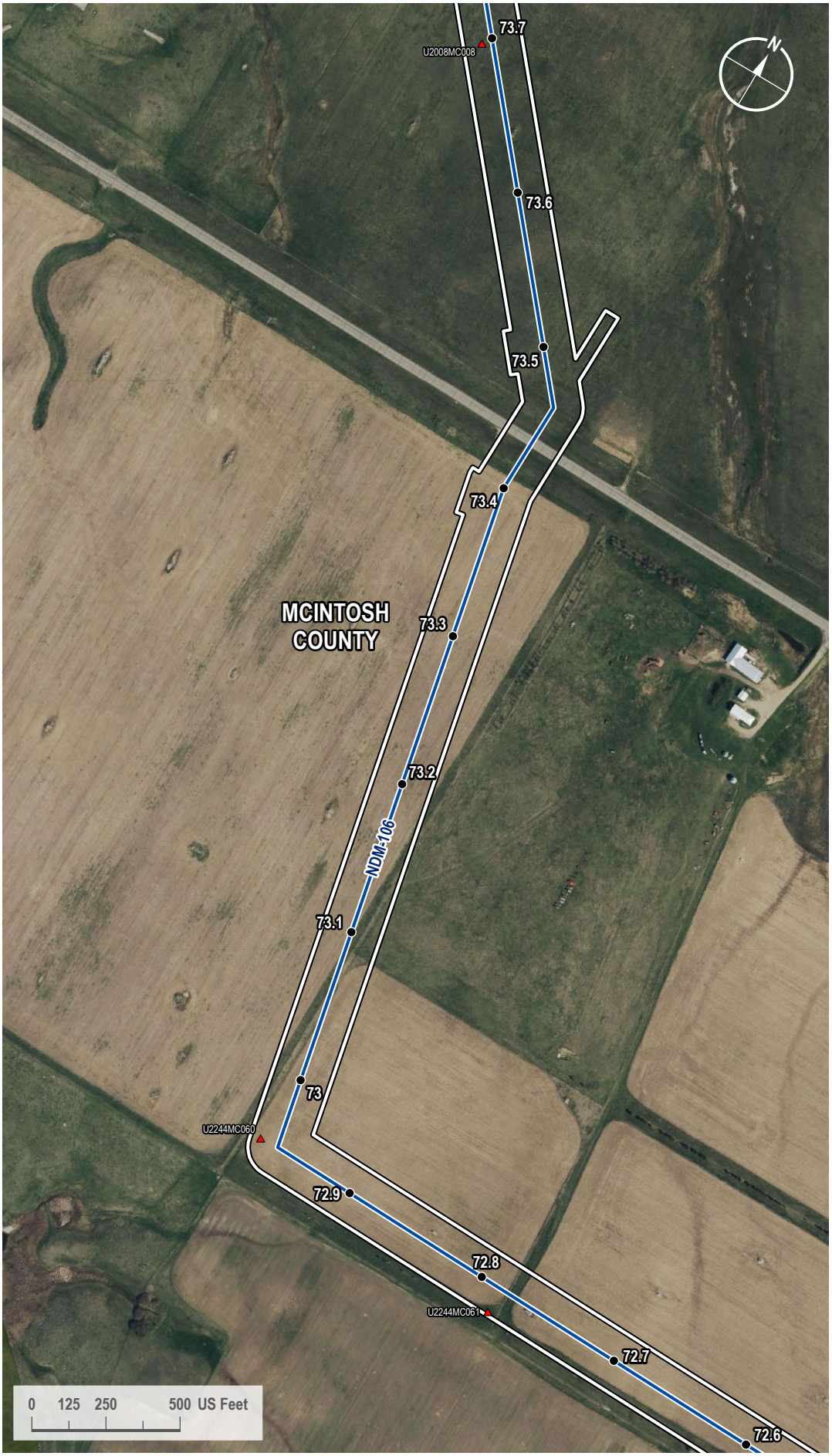

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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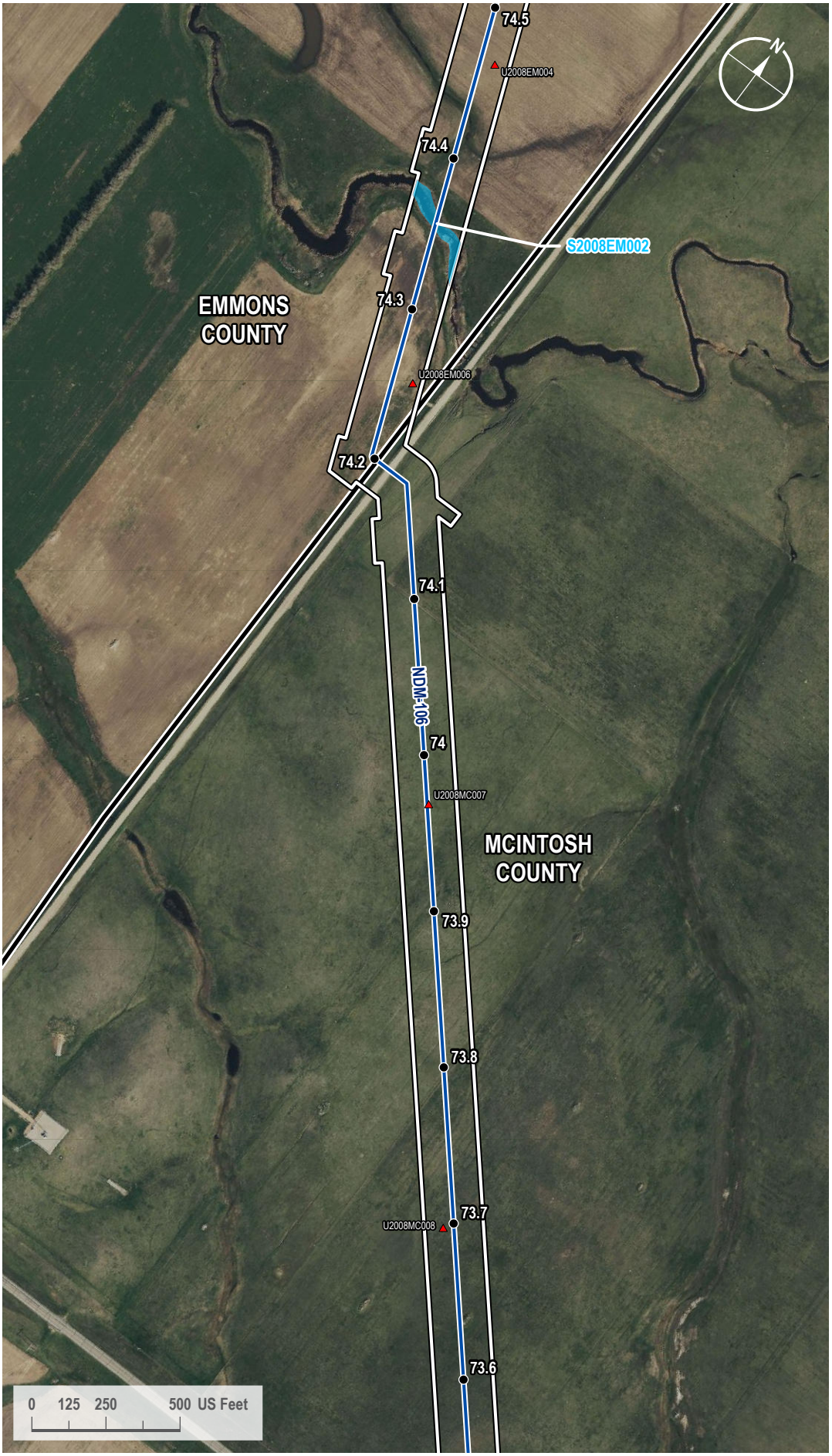
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Stream (Surveyed)

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Figure Title: Aerial Map

Figure Number: Appendix A-2

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
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- 200-foot Siting Corridor
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- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- County Line
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Milepost
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VICINITY MAP



LEGEND

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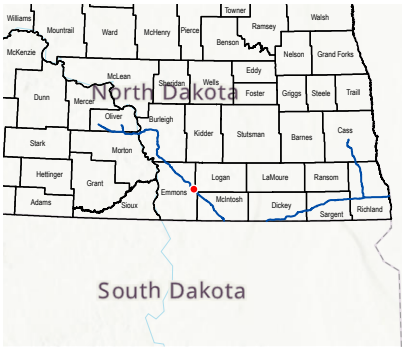

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VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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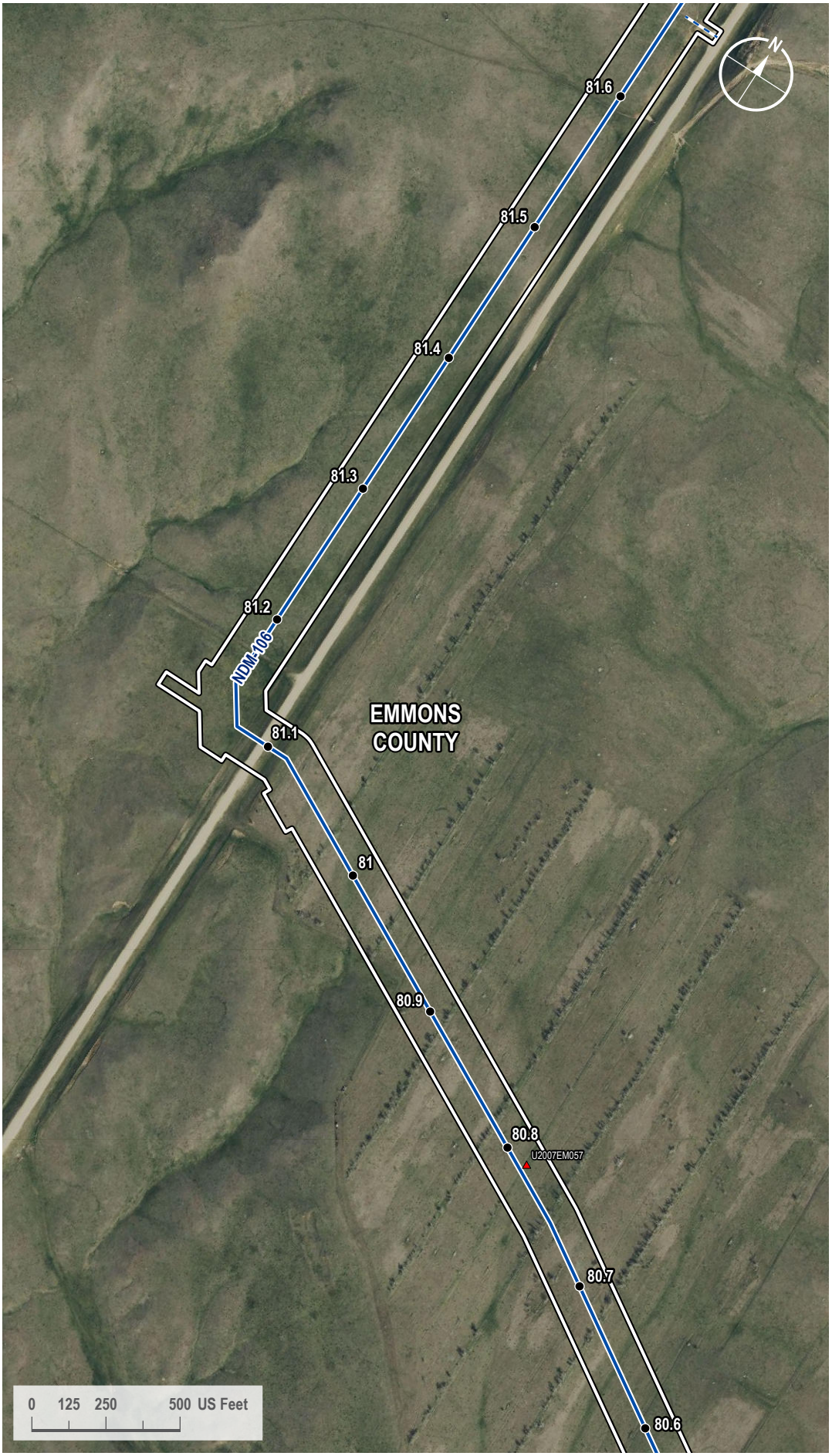

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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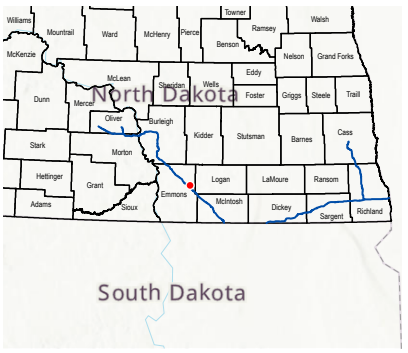

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VICINITY MAP



LEGEND

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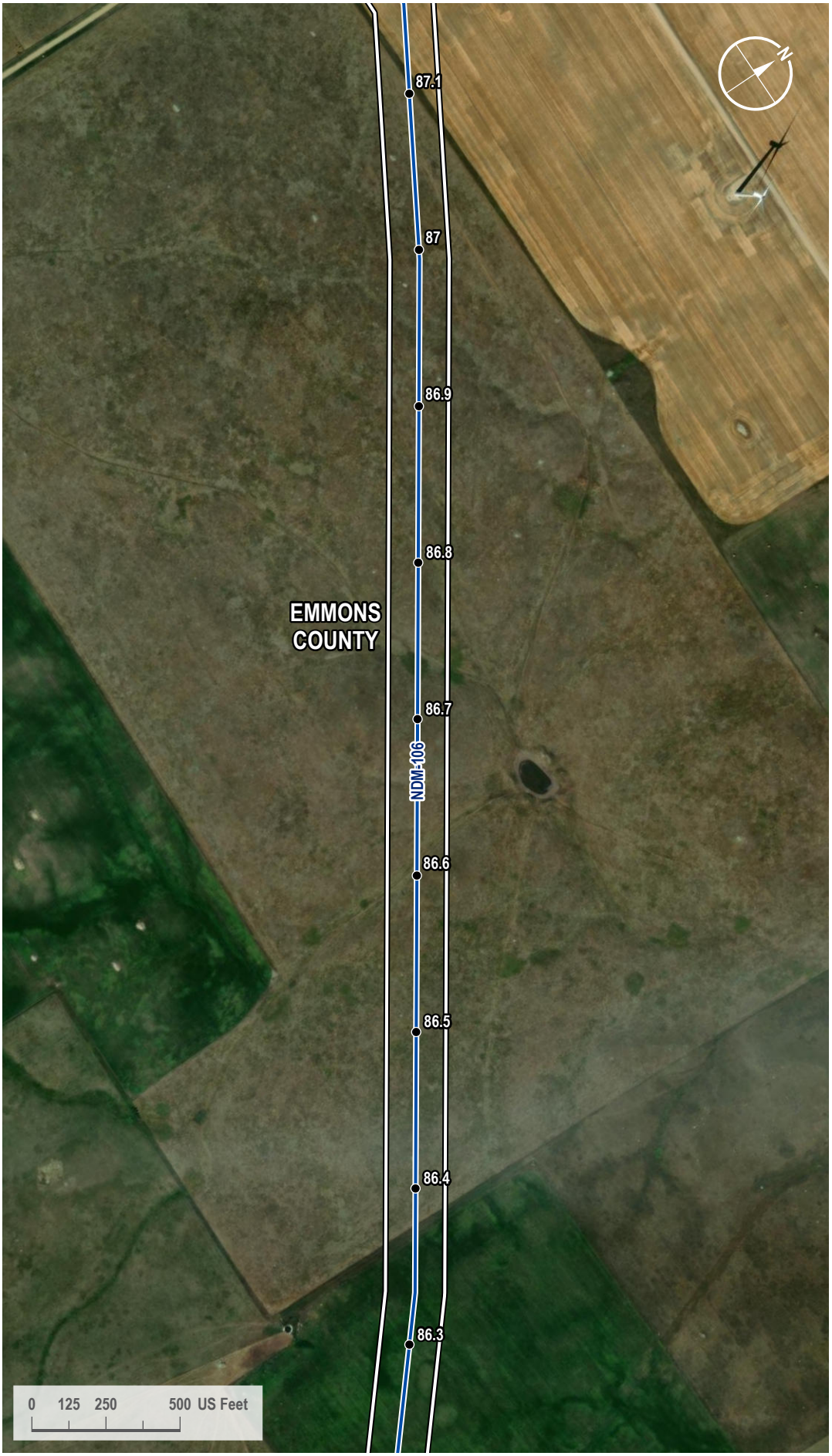

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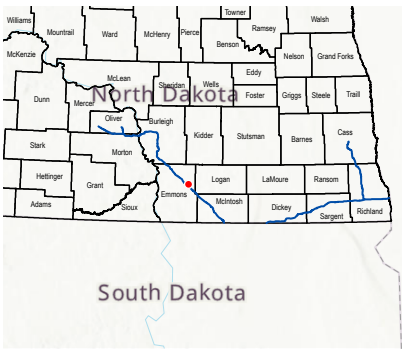

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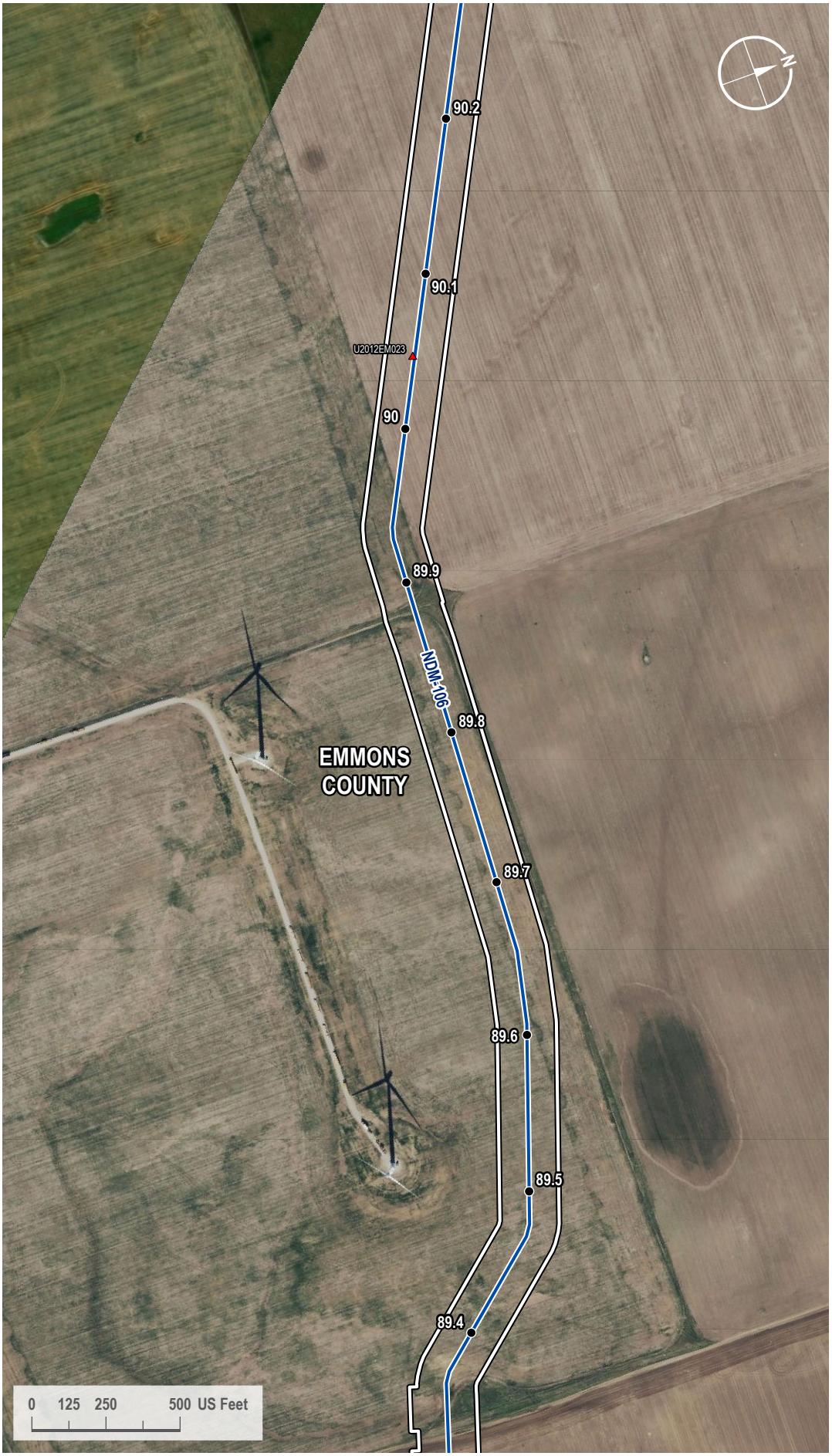

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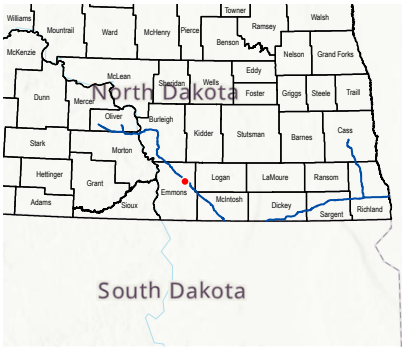

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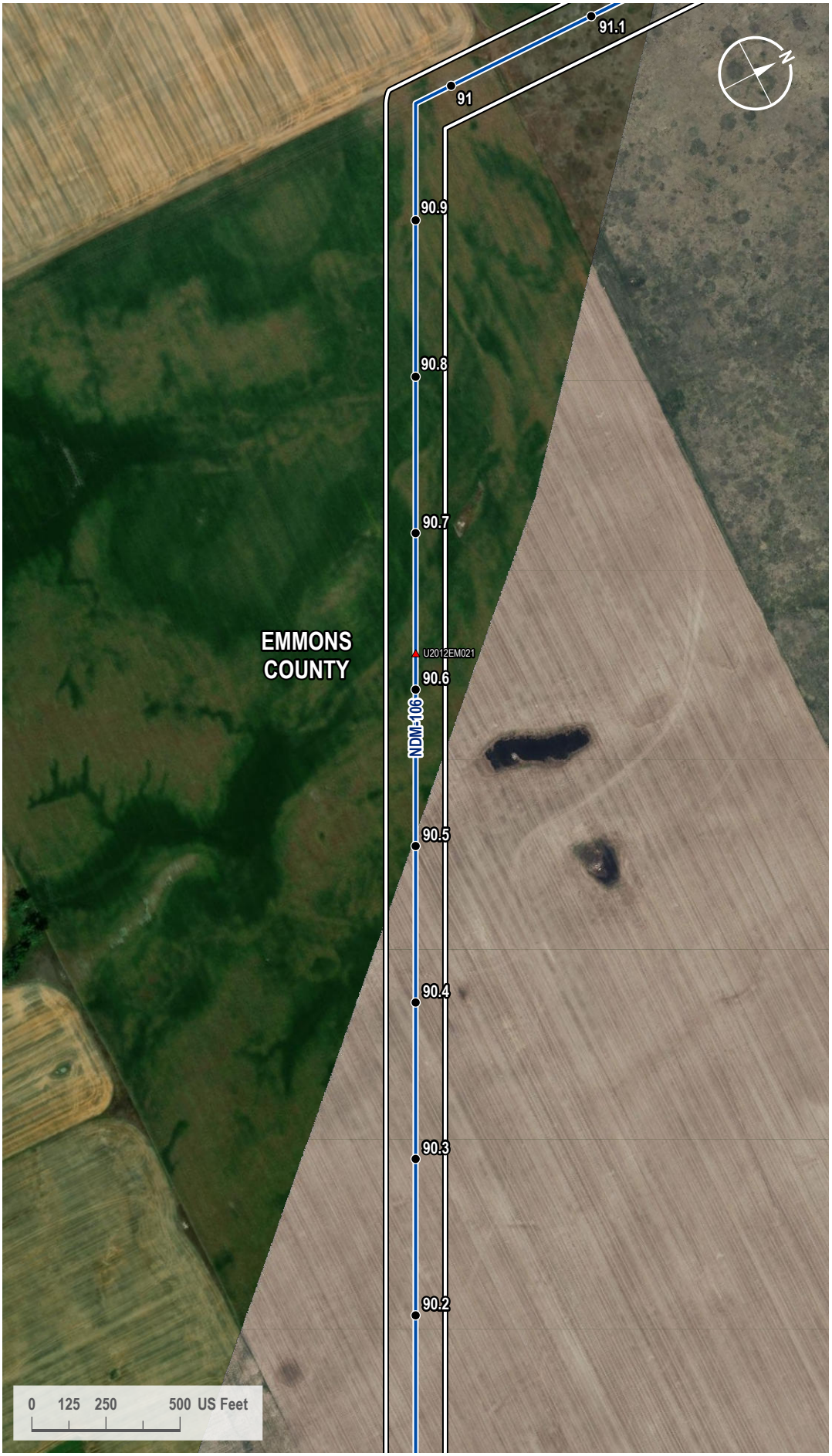

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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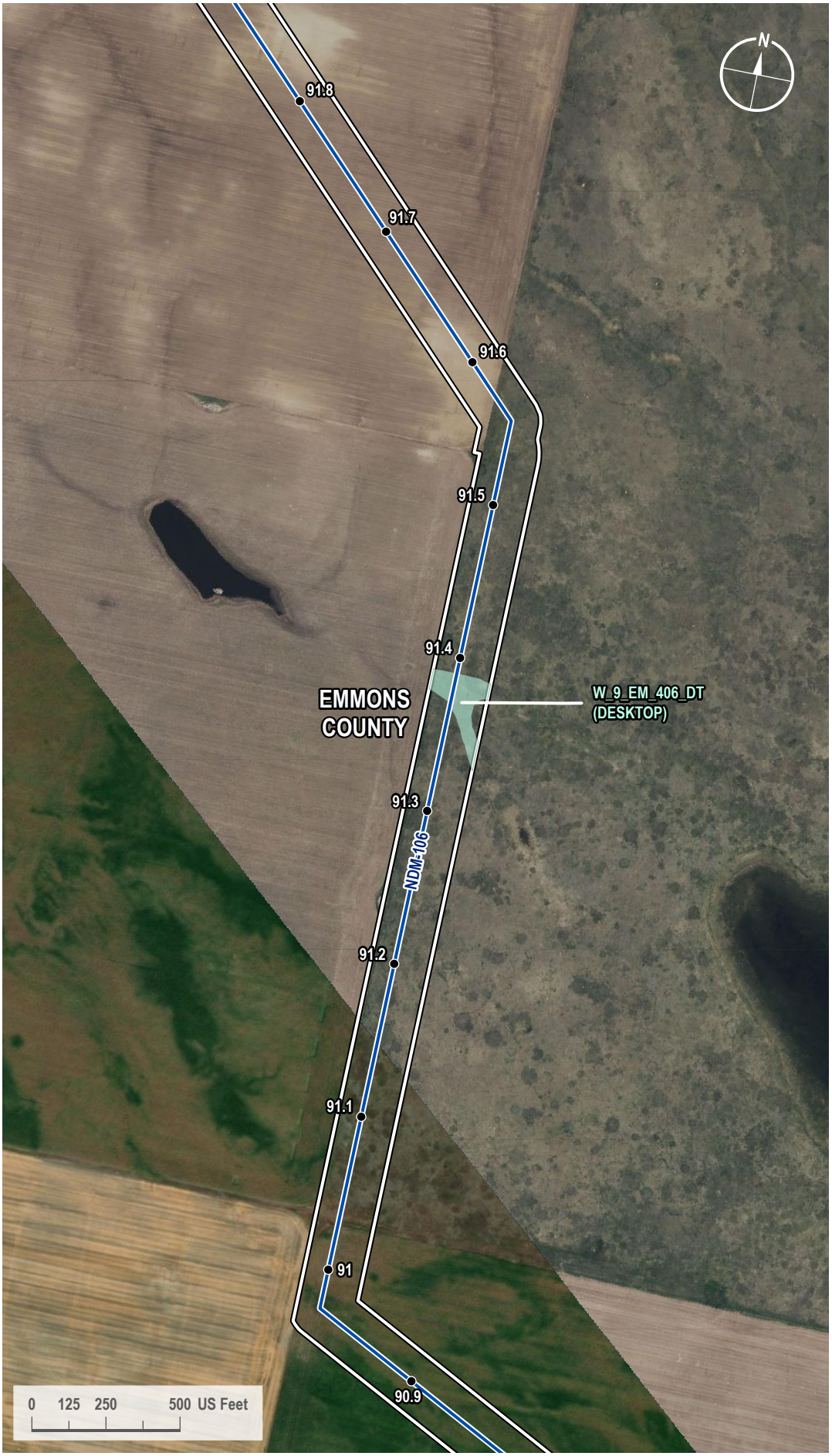

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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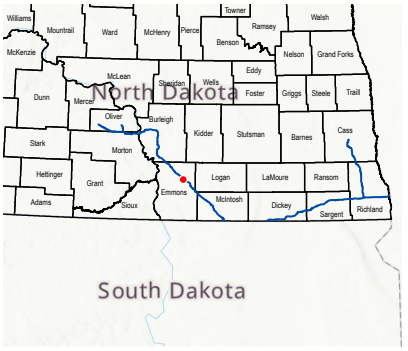

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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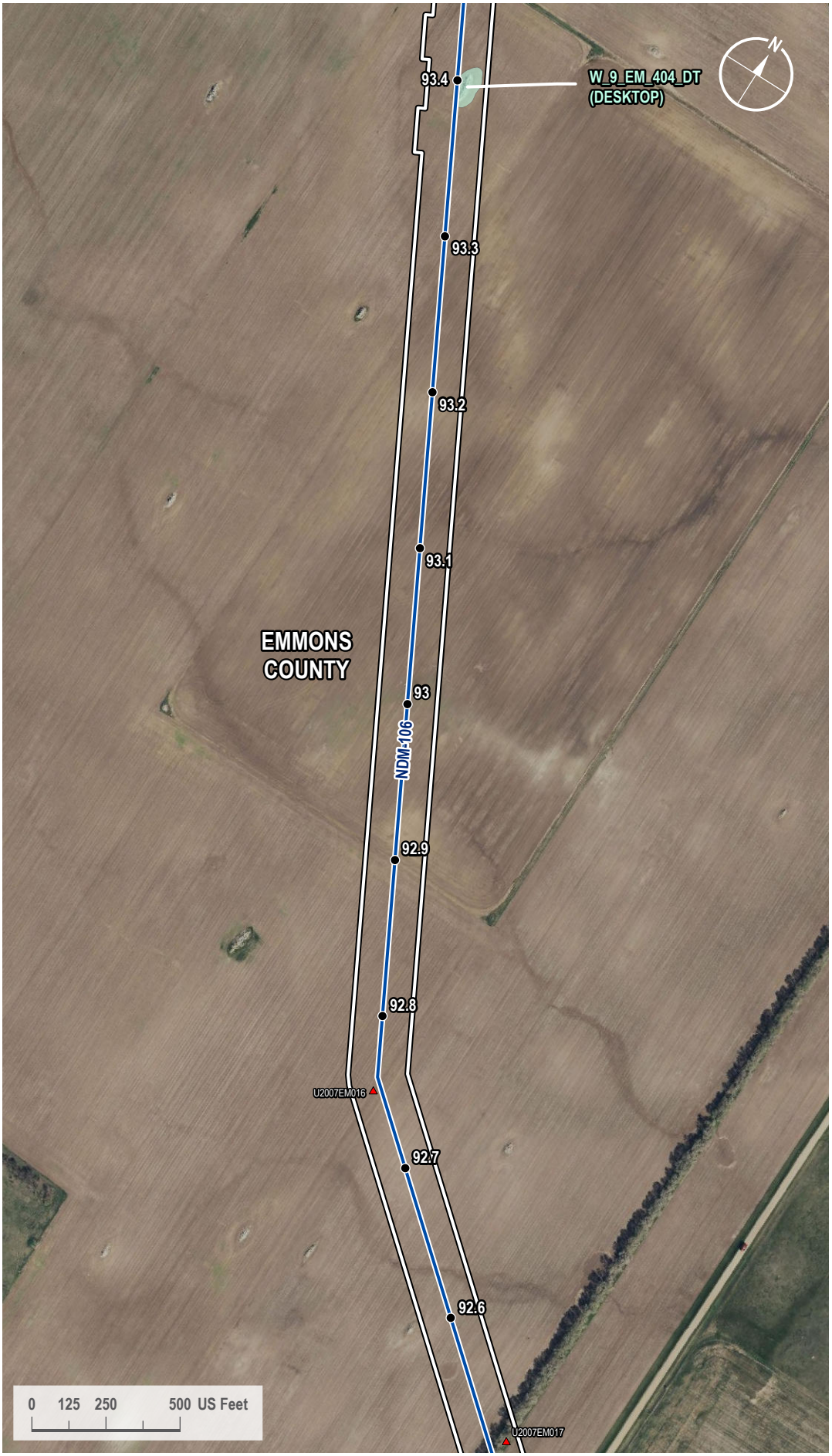

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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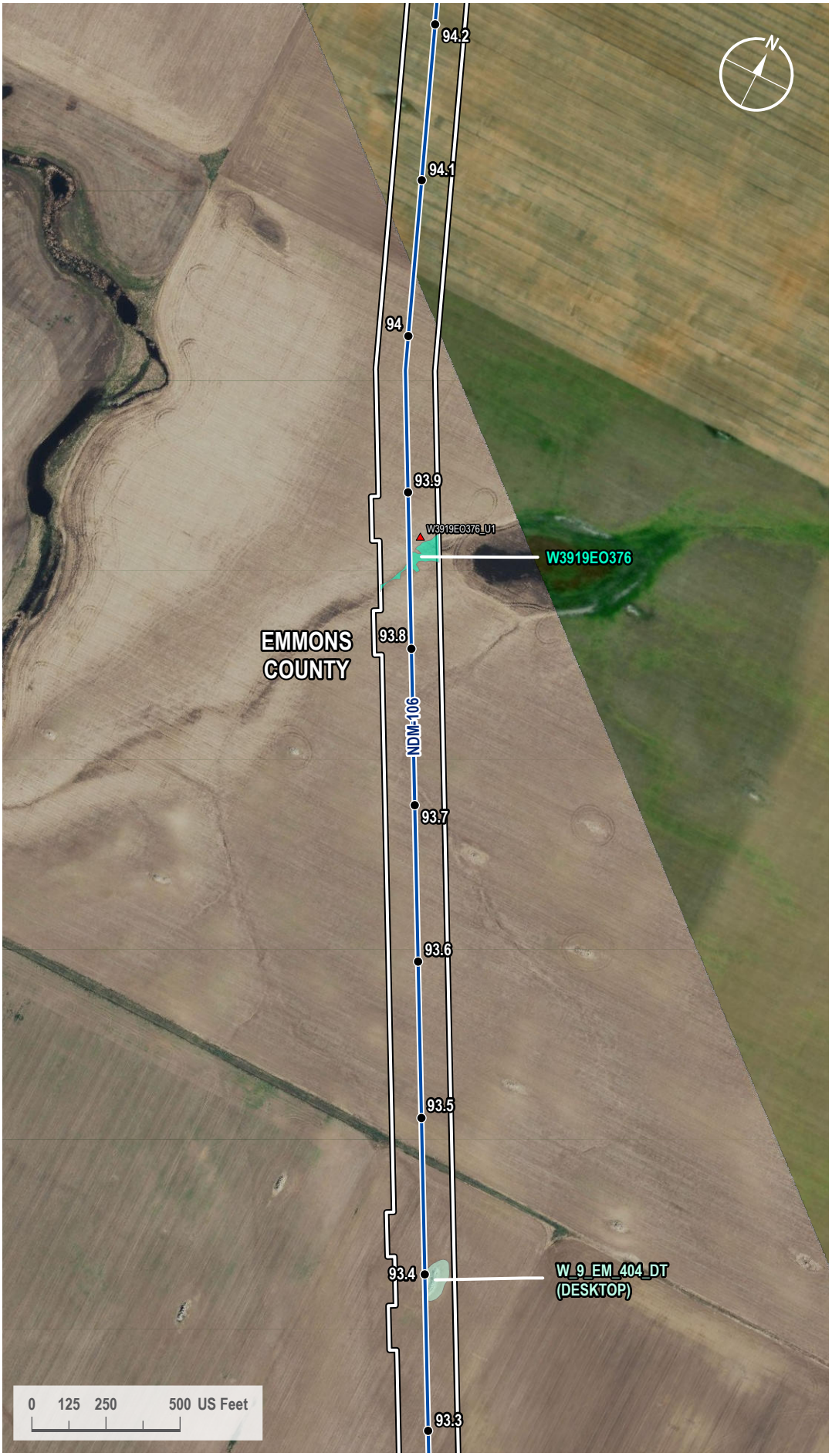

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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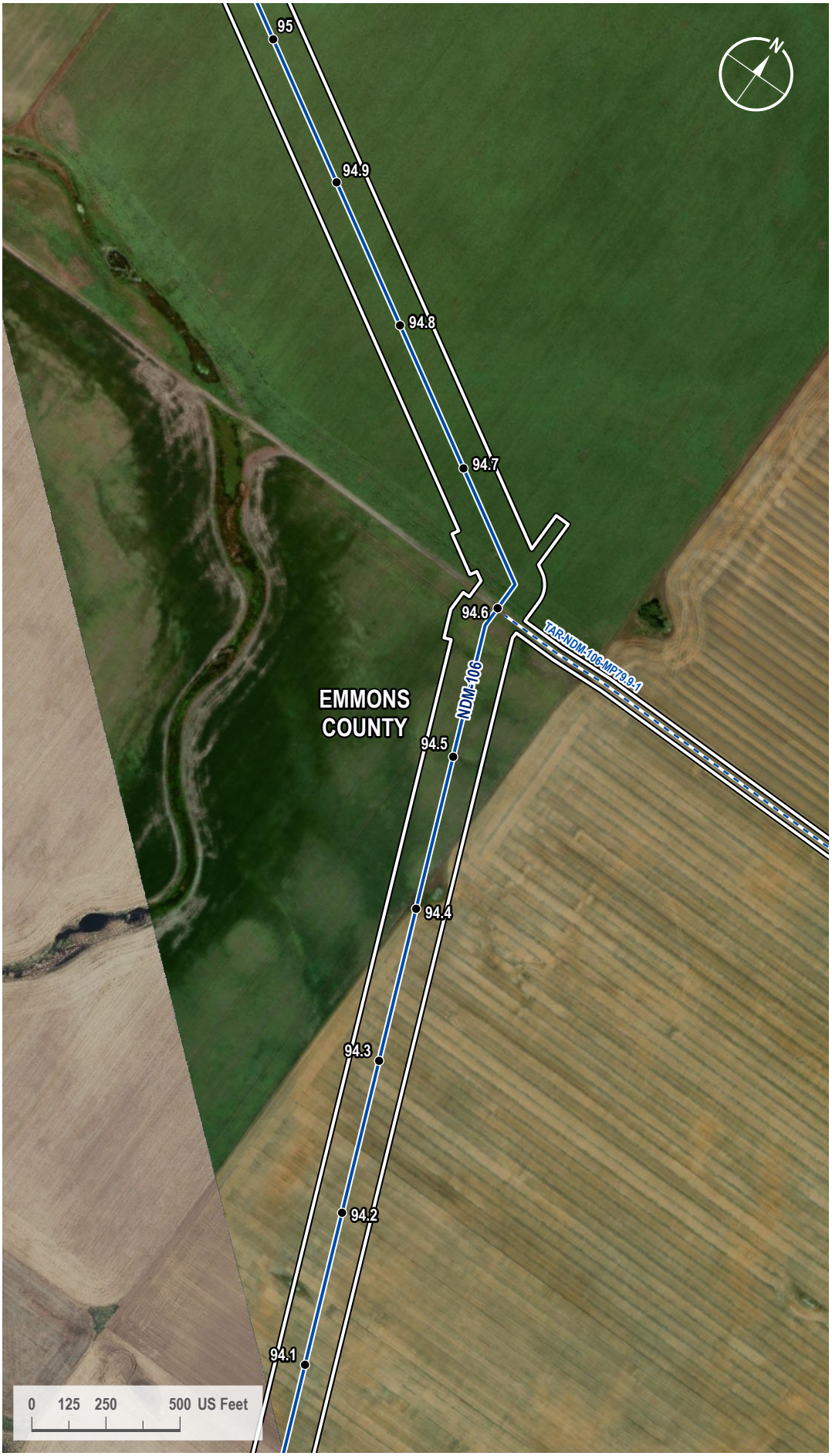

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Soil Station
- Access Road
- 200-foot Siting Corridor

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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VICINITY MAP



LEGEND

- Milepost
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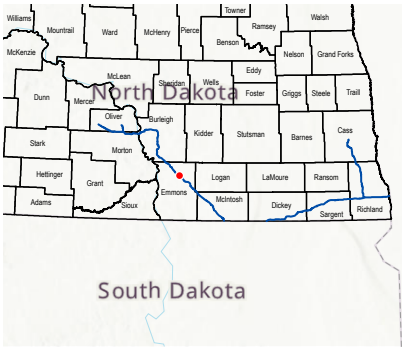

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- Milepost
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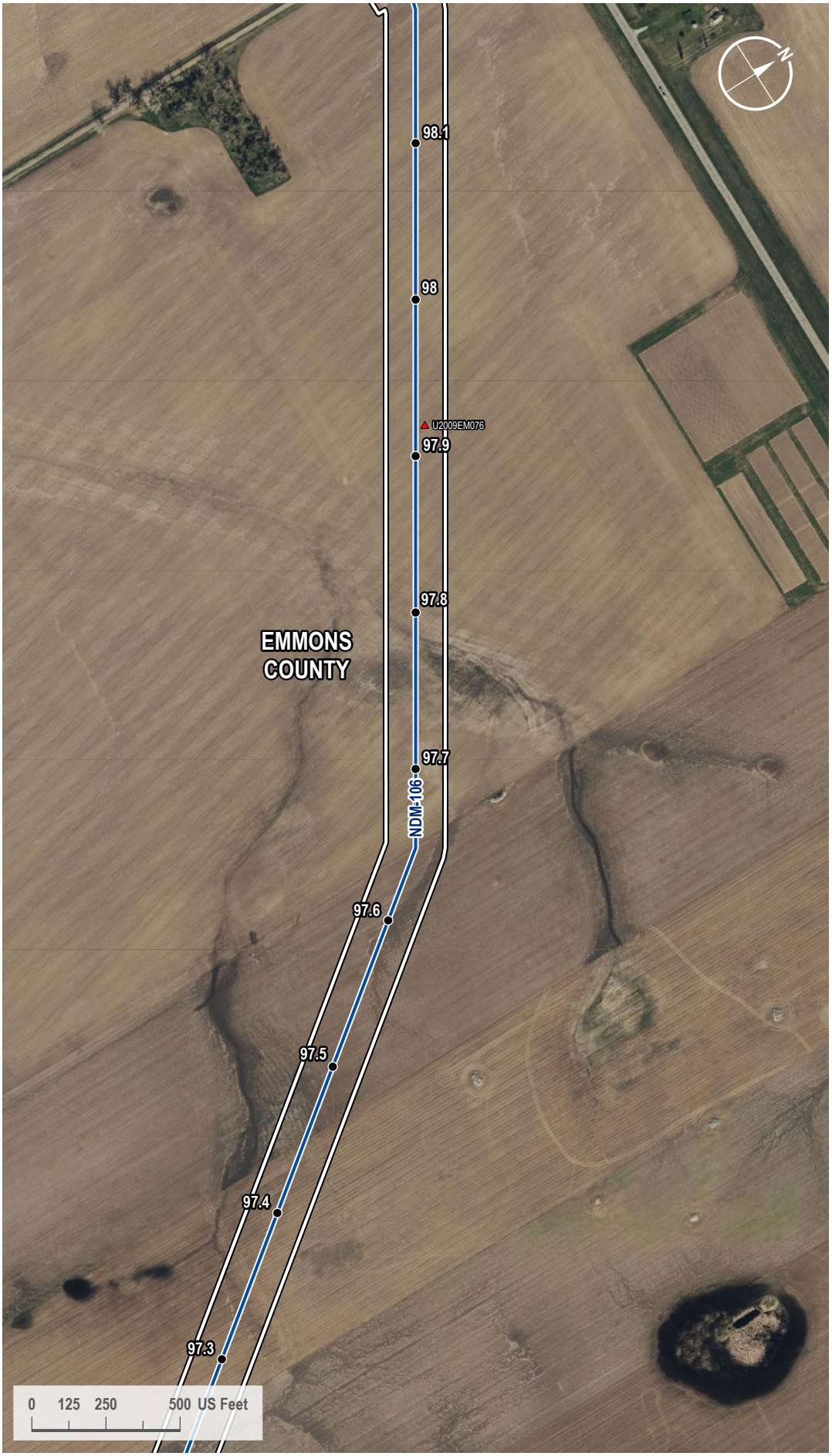

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LEGEND

- Milepost
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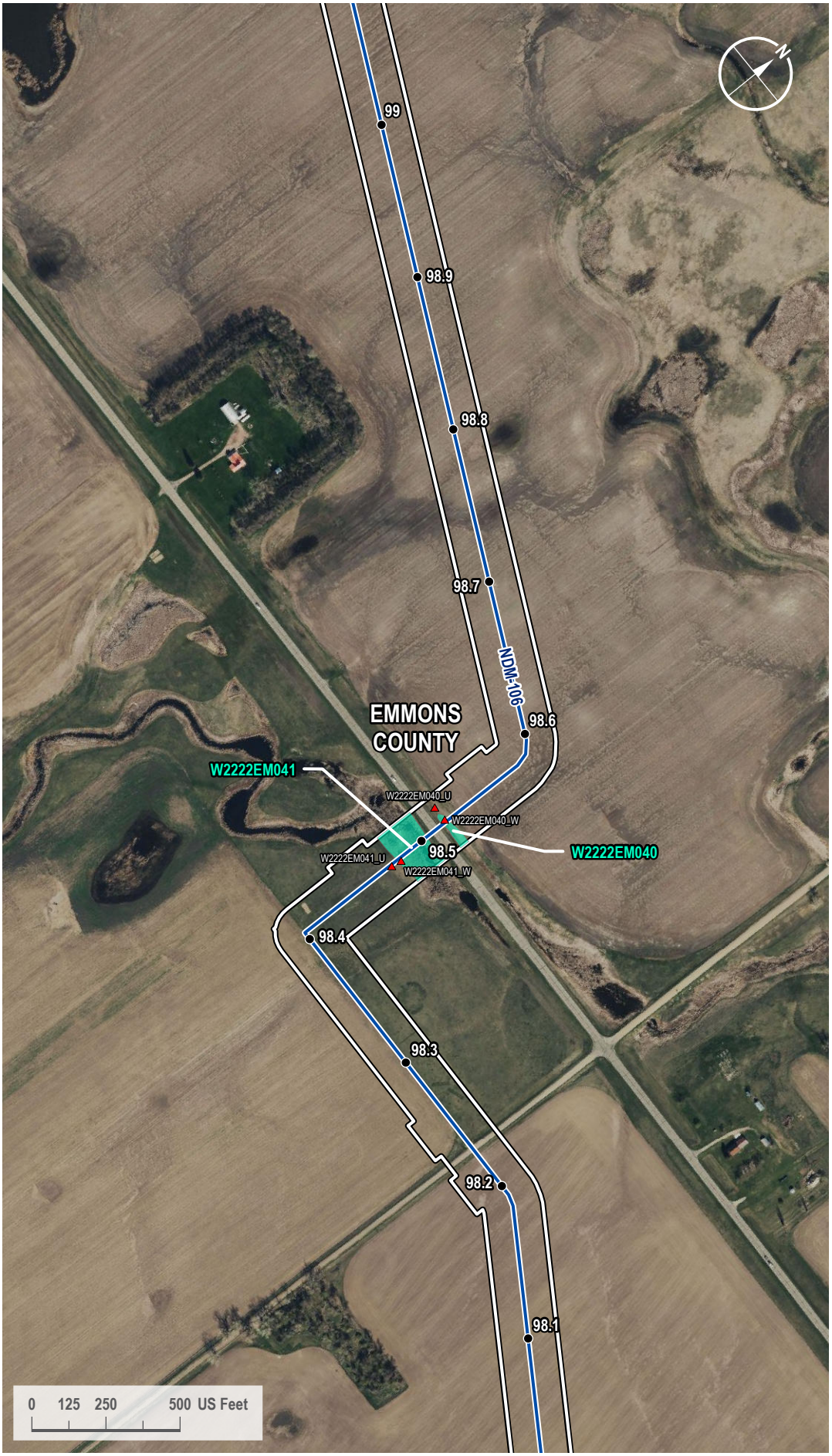

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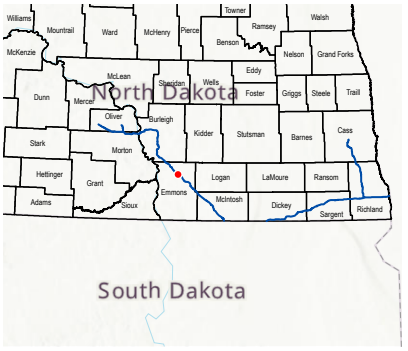

LEGEND

- Milepost
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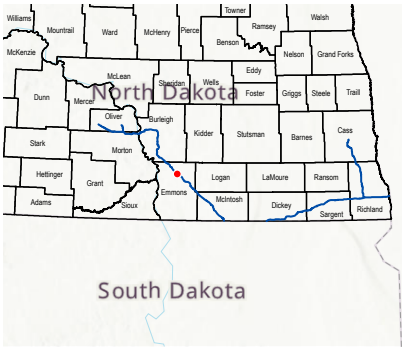

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor

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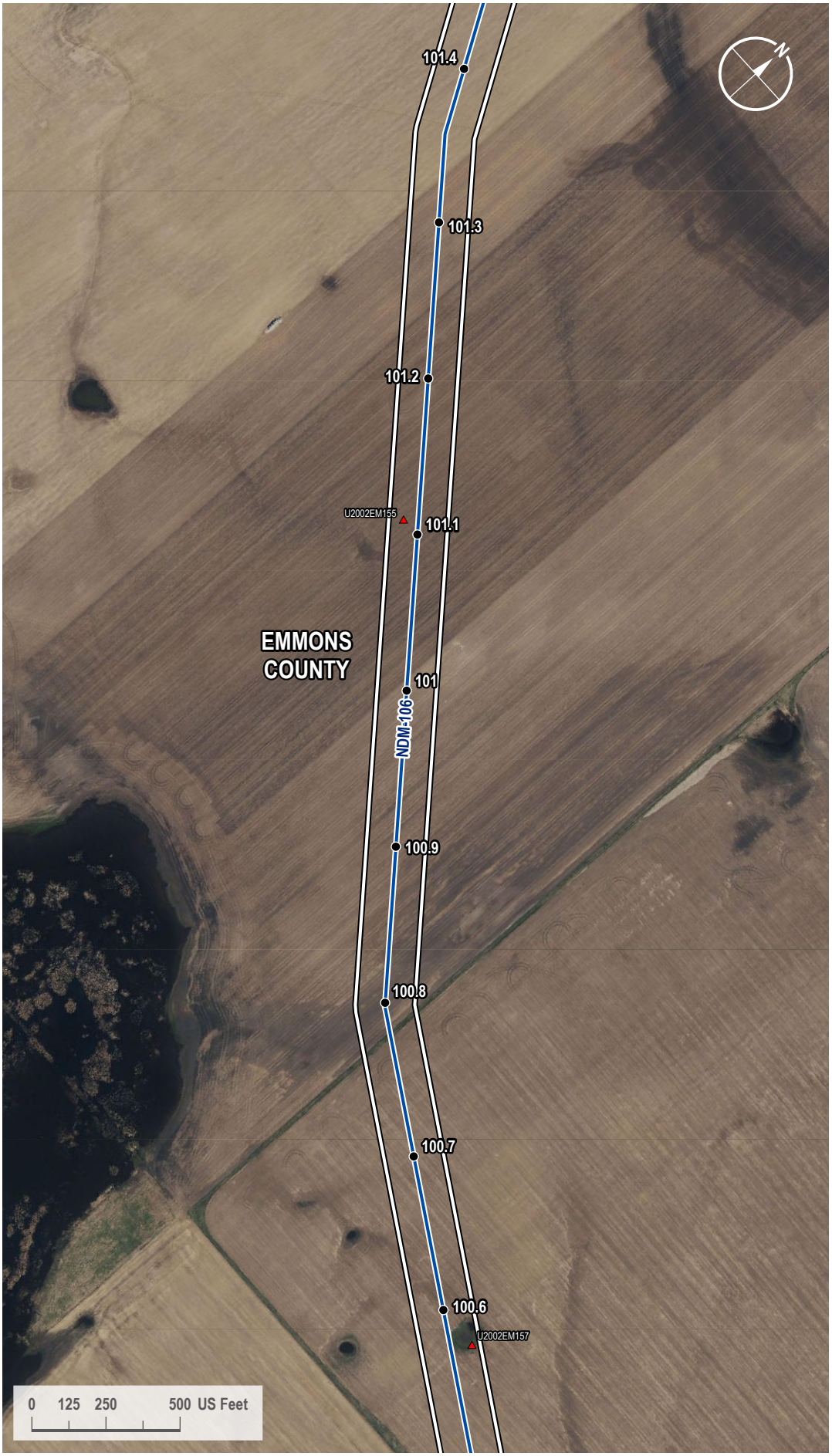

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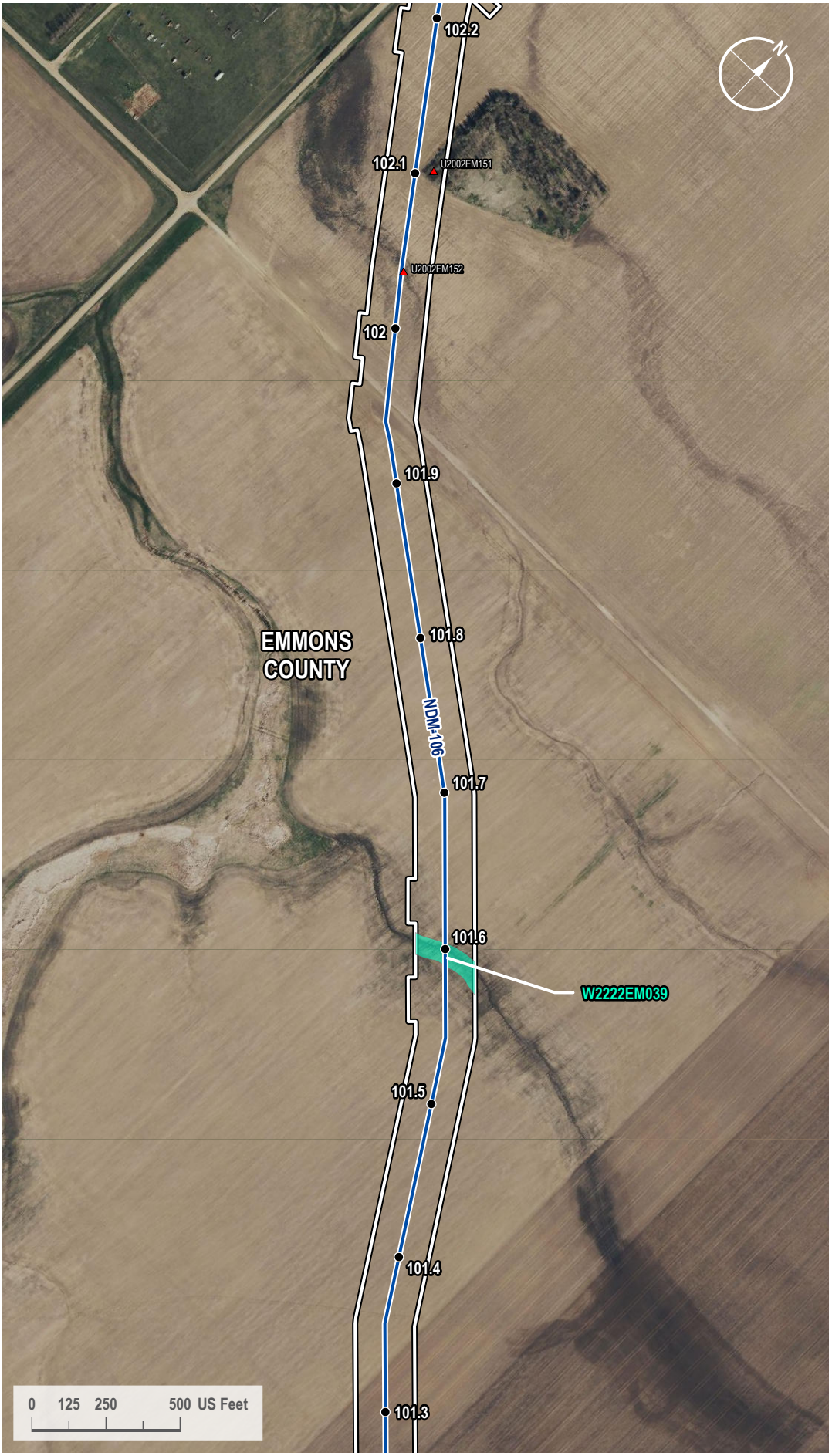

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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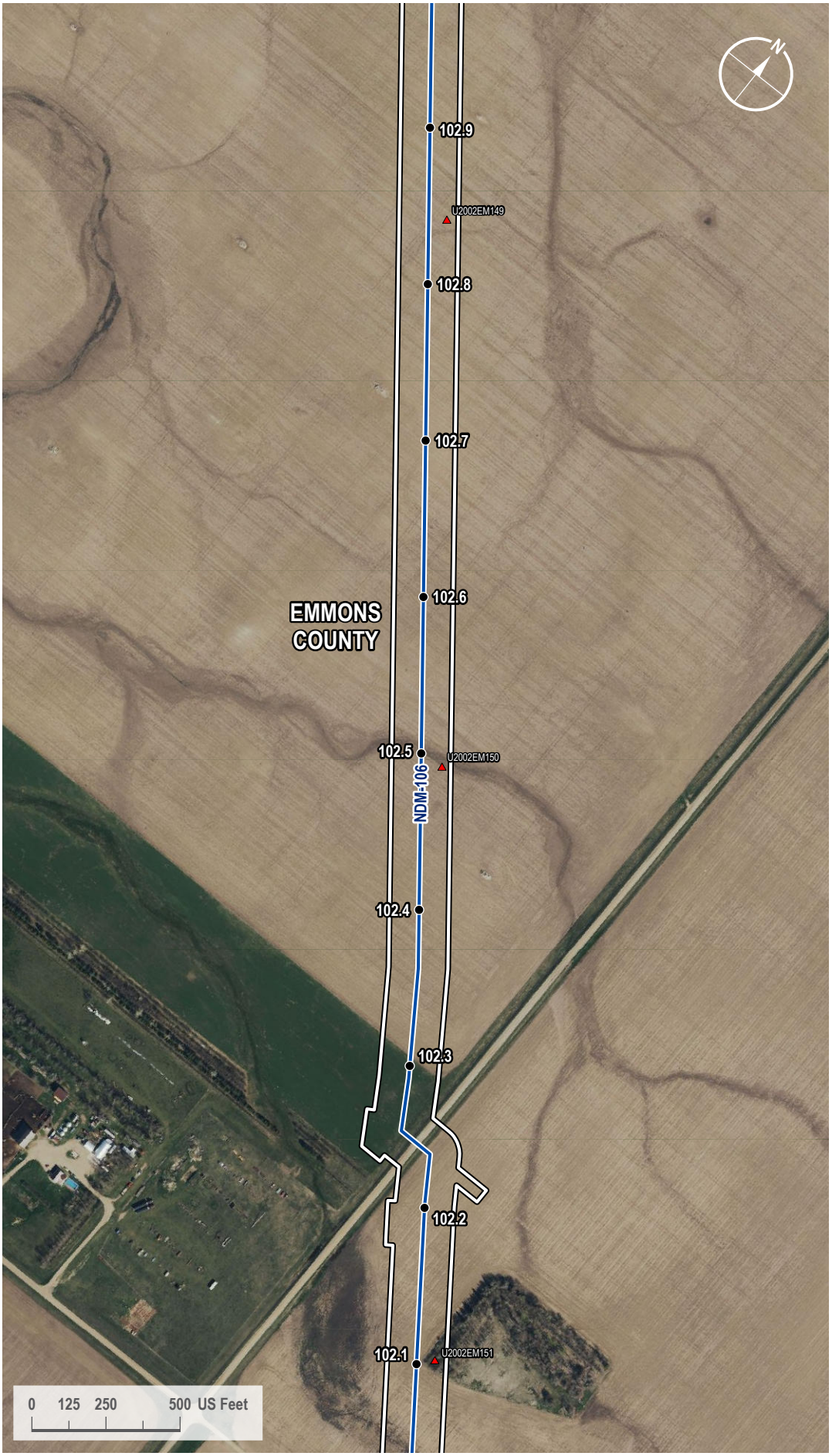

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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VICINITY MAP



LEGEND

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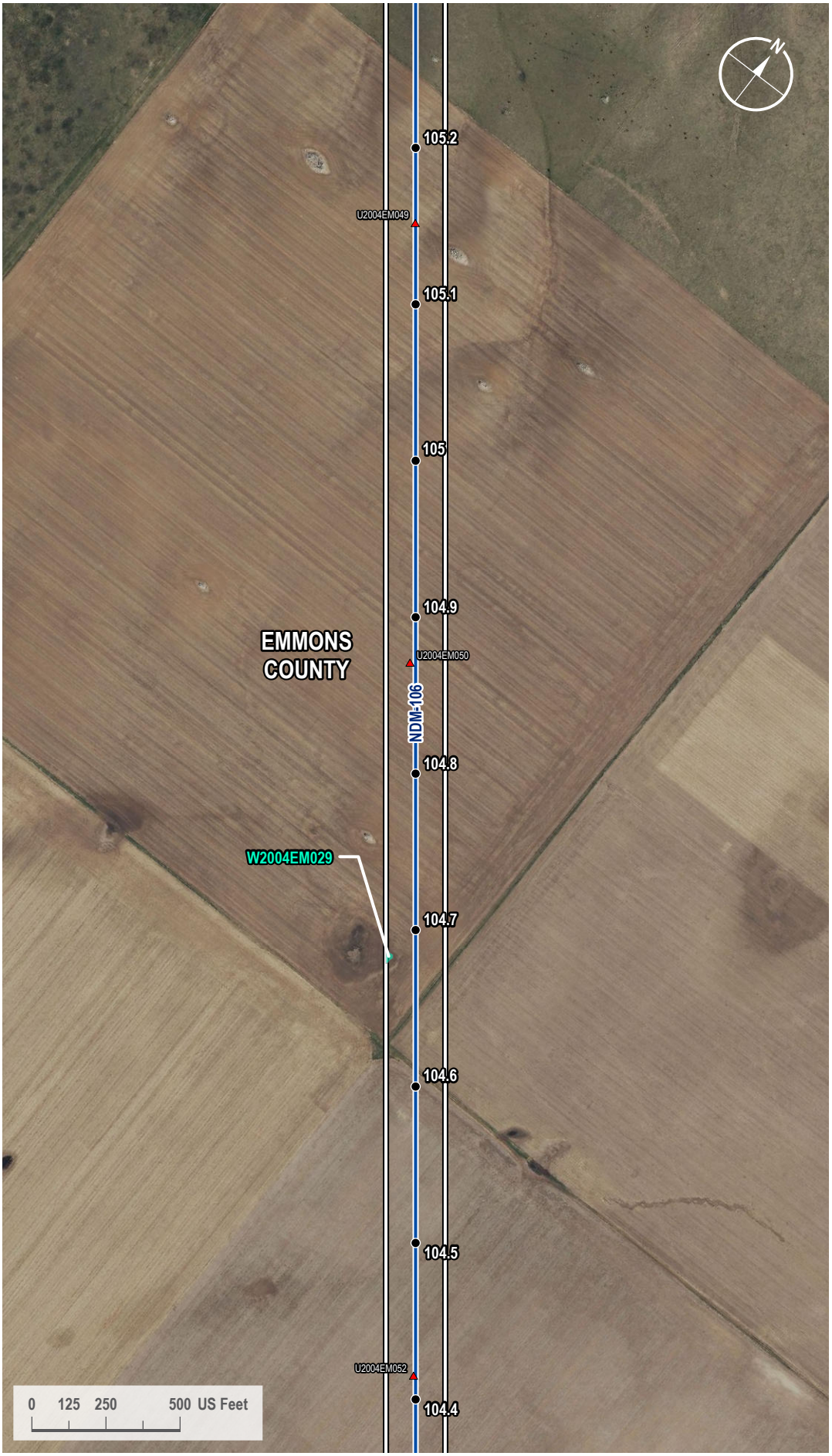

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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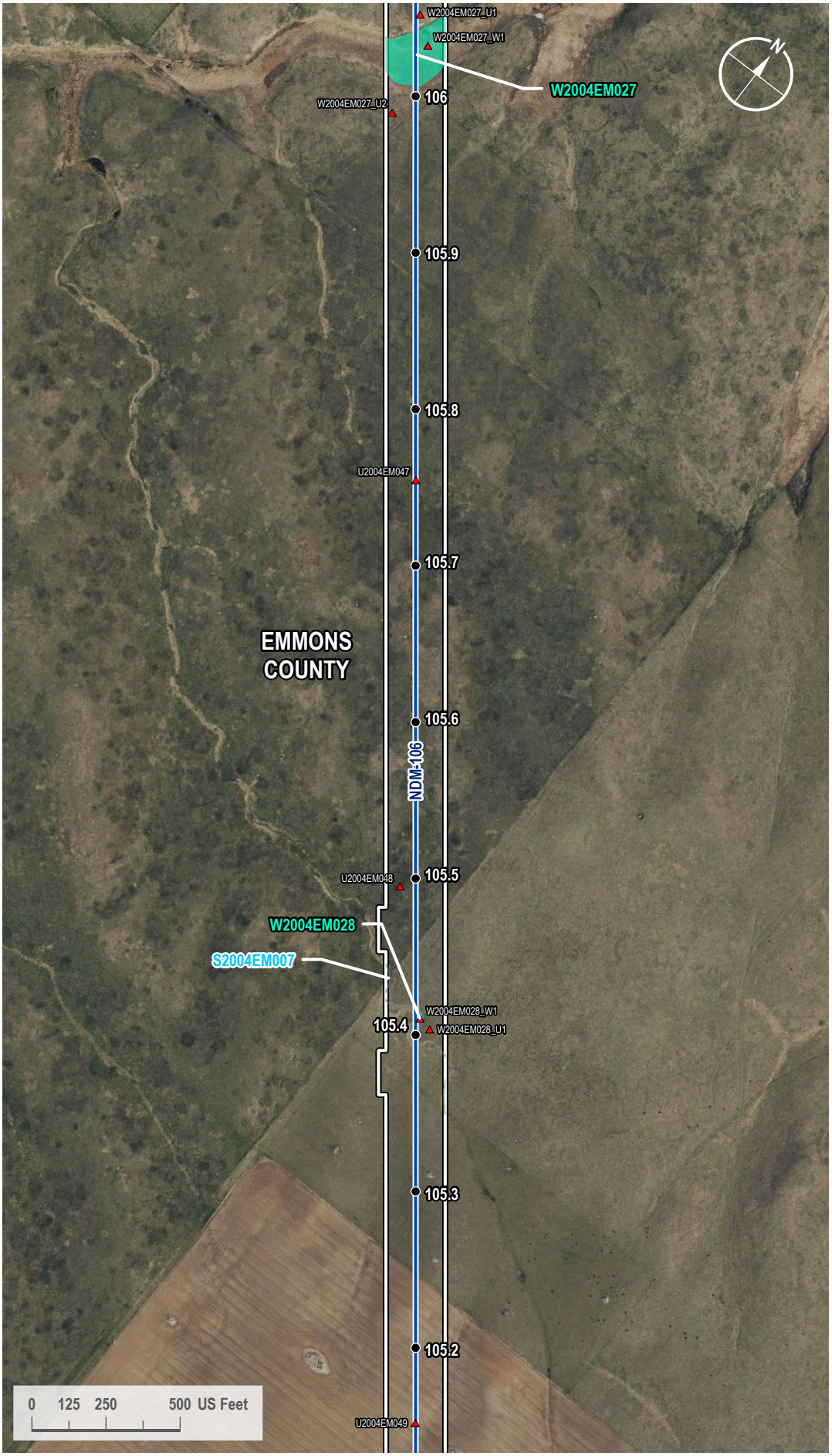

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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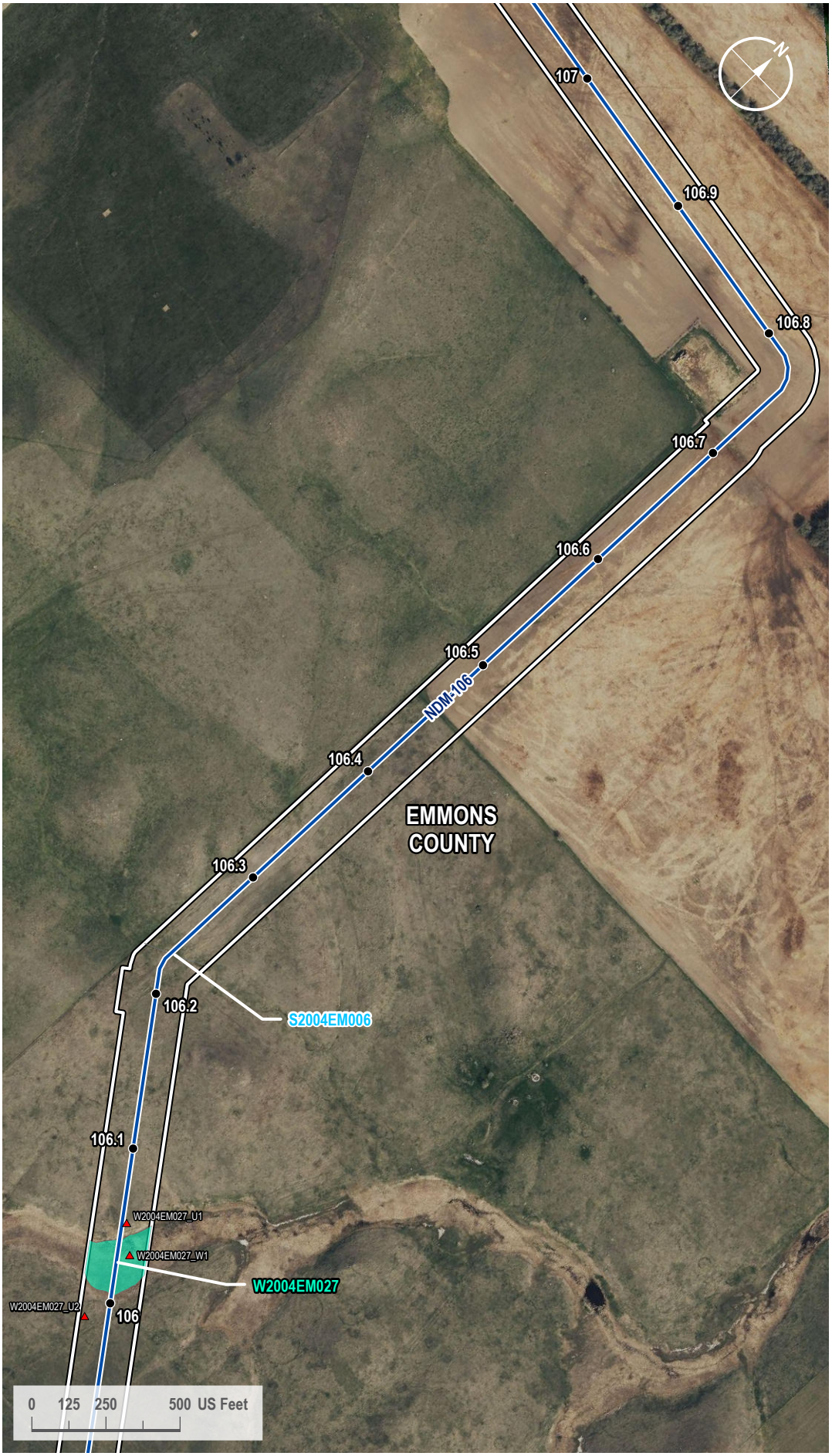

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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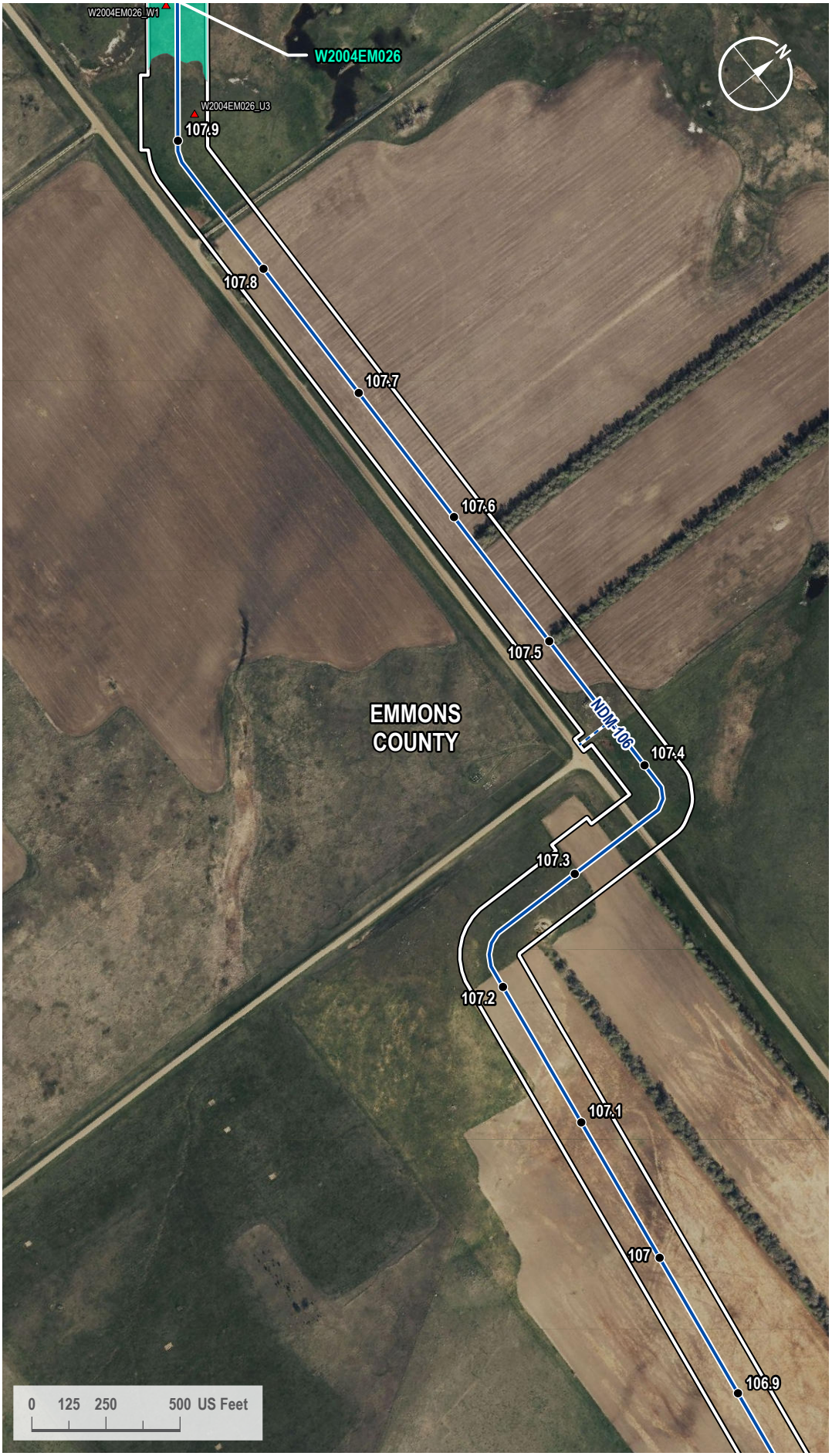

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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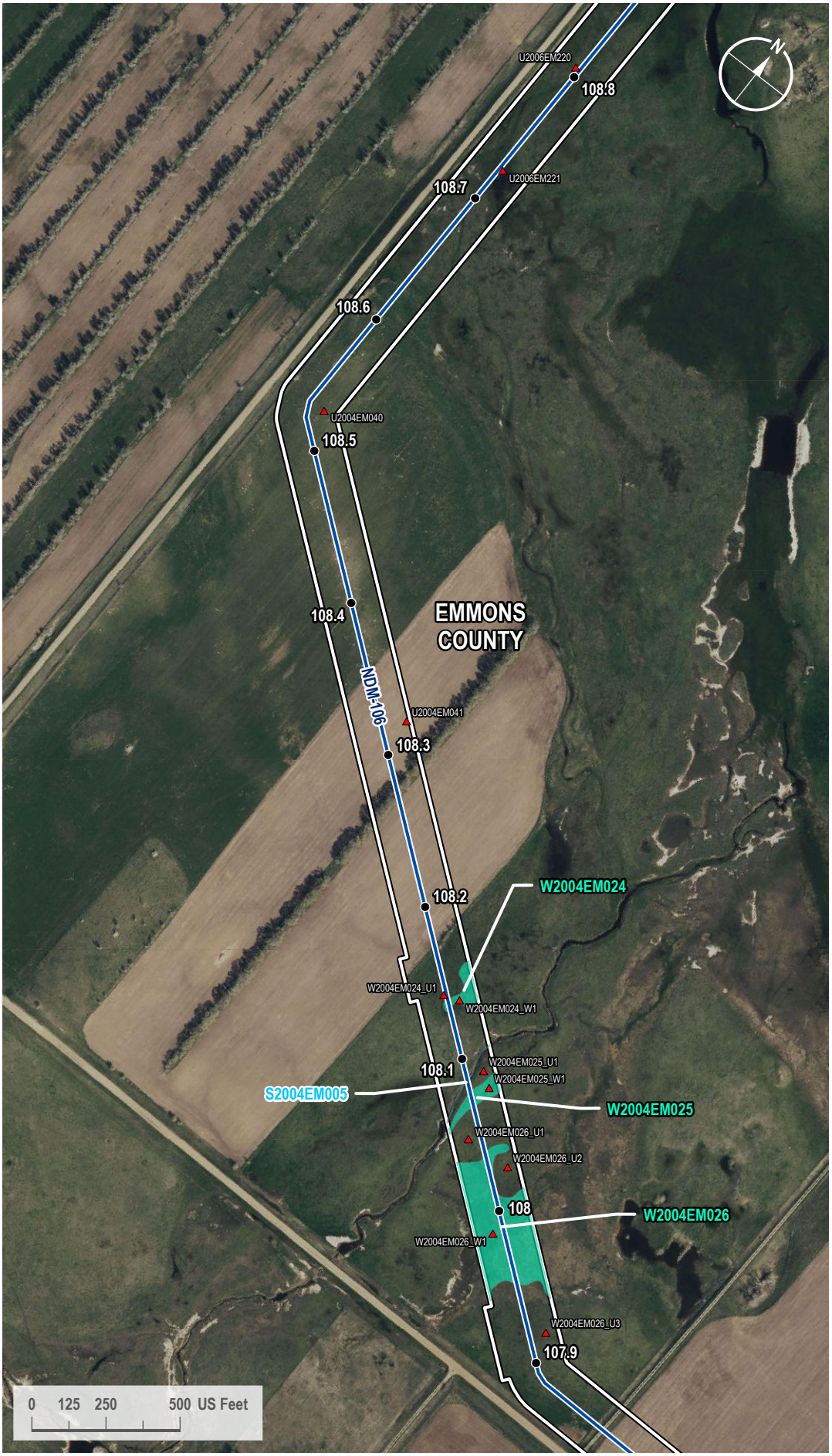

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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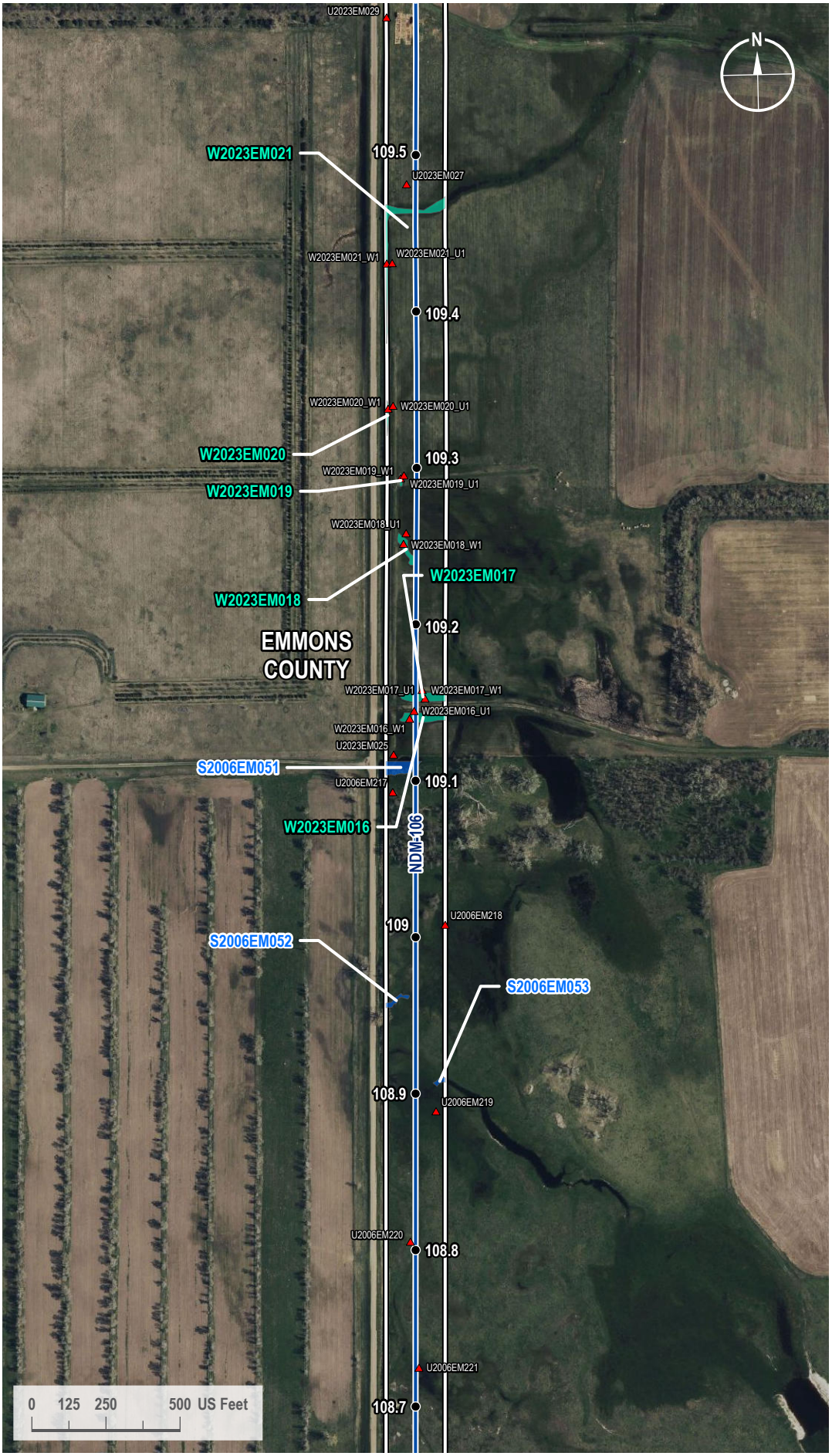

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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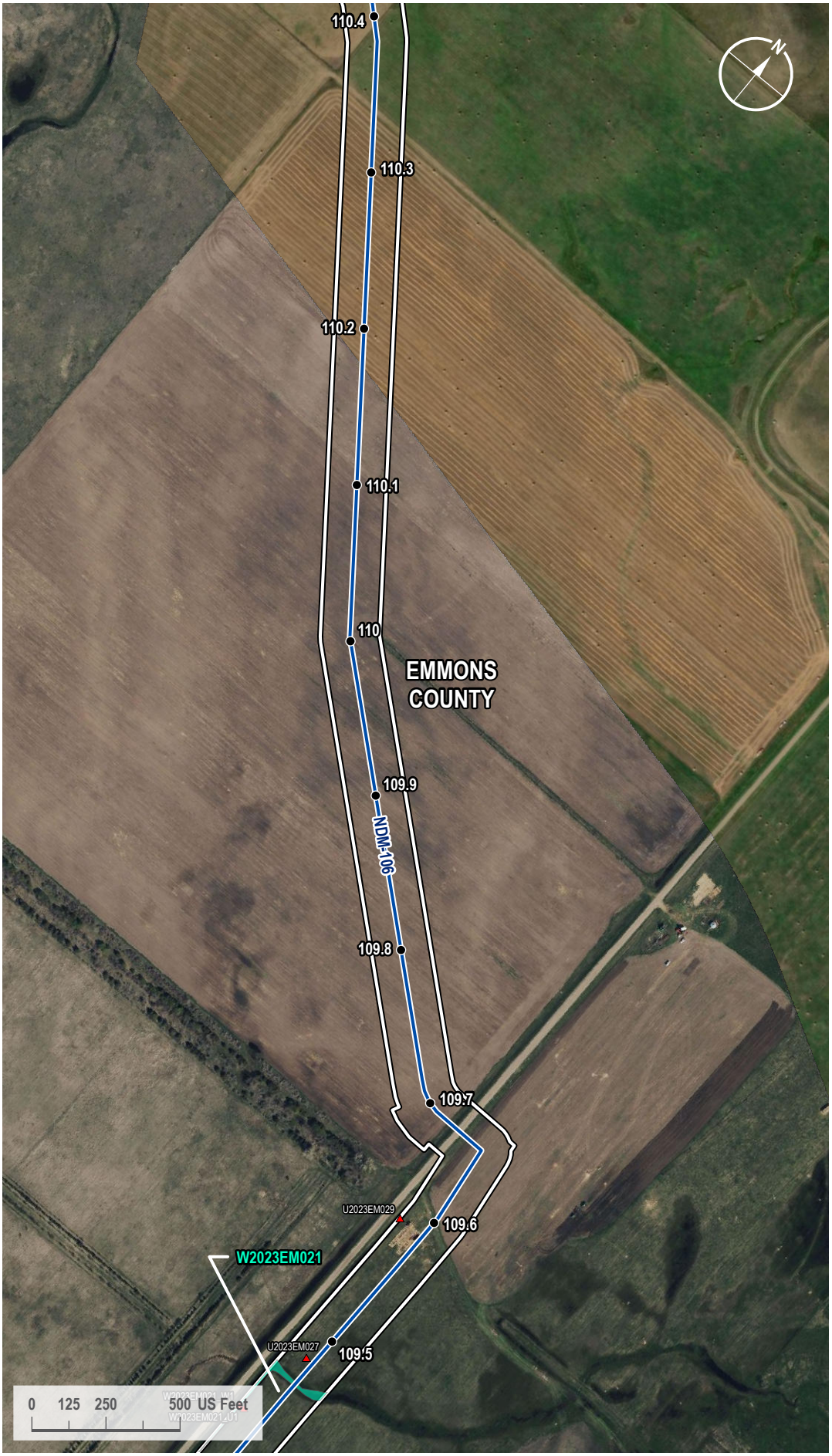

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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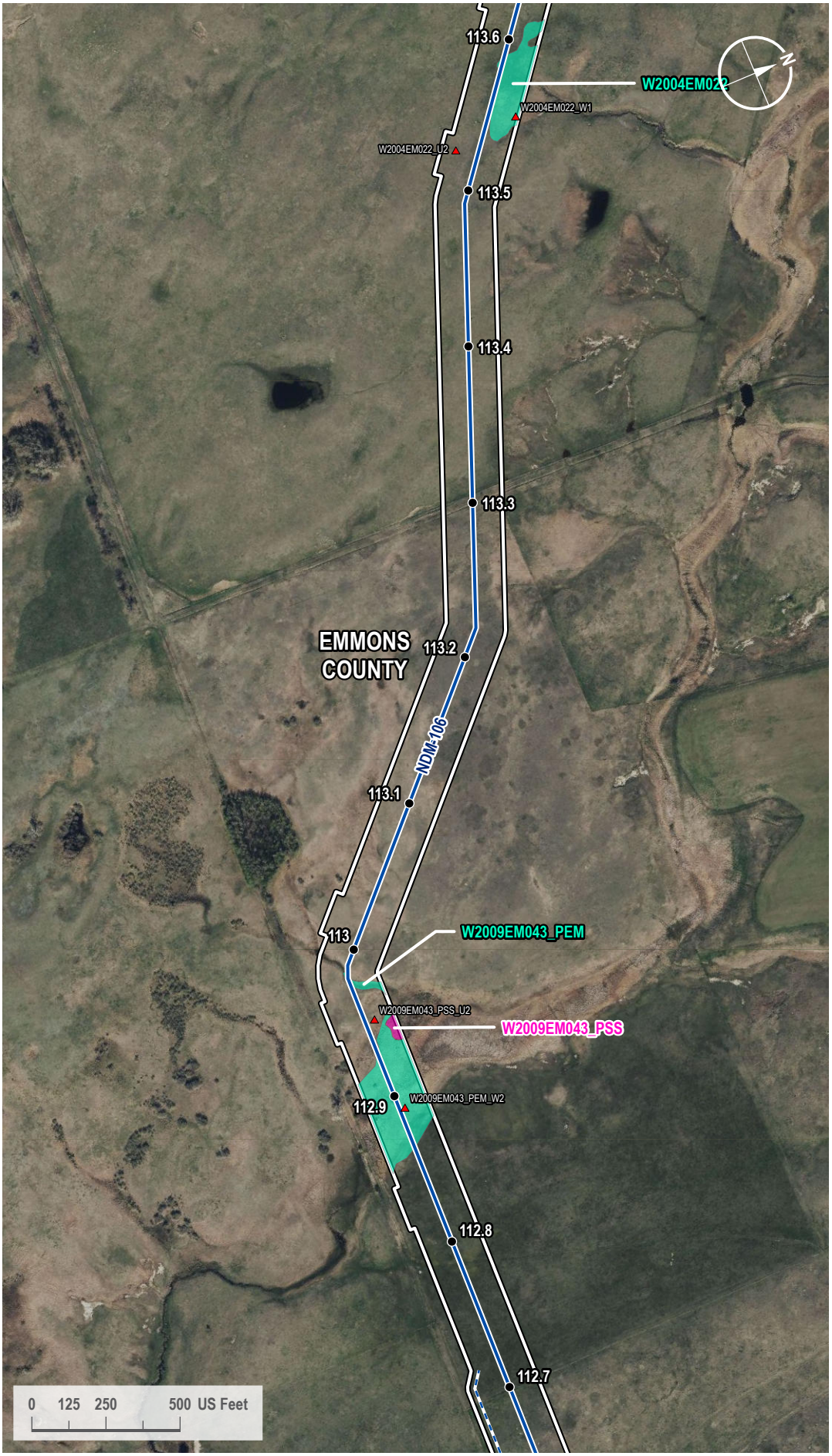

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Scrub-Shrub Wetland (Surveyed)

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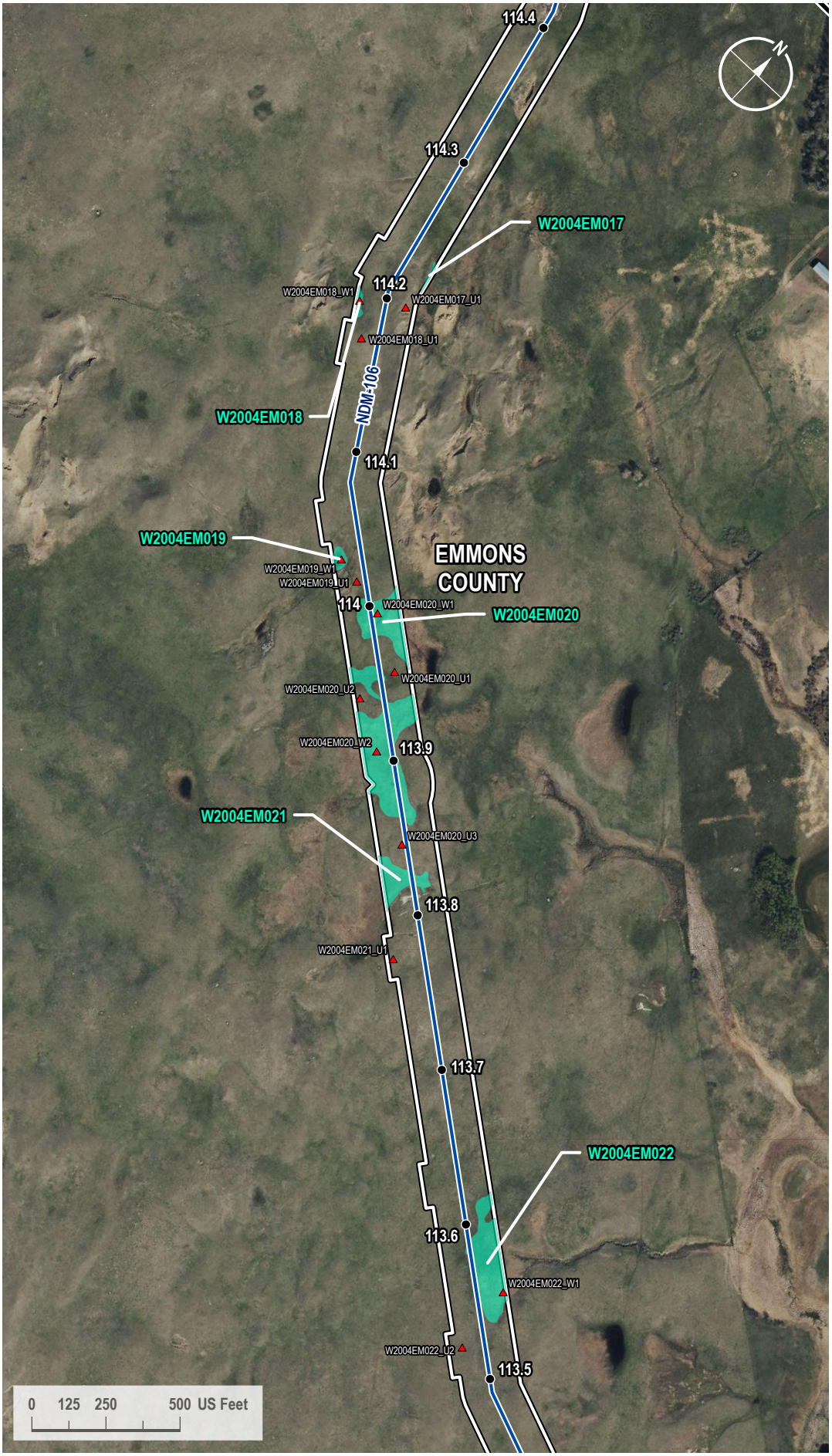

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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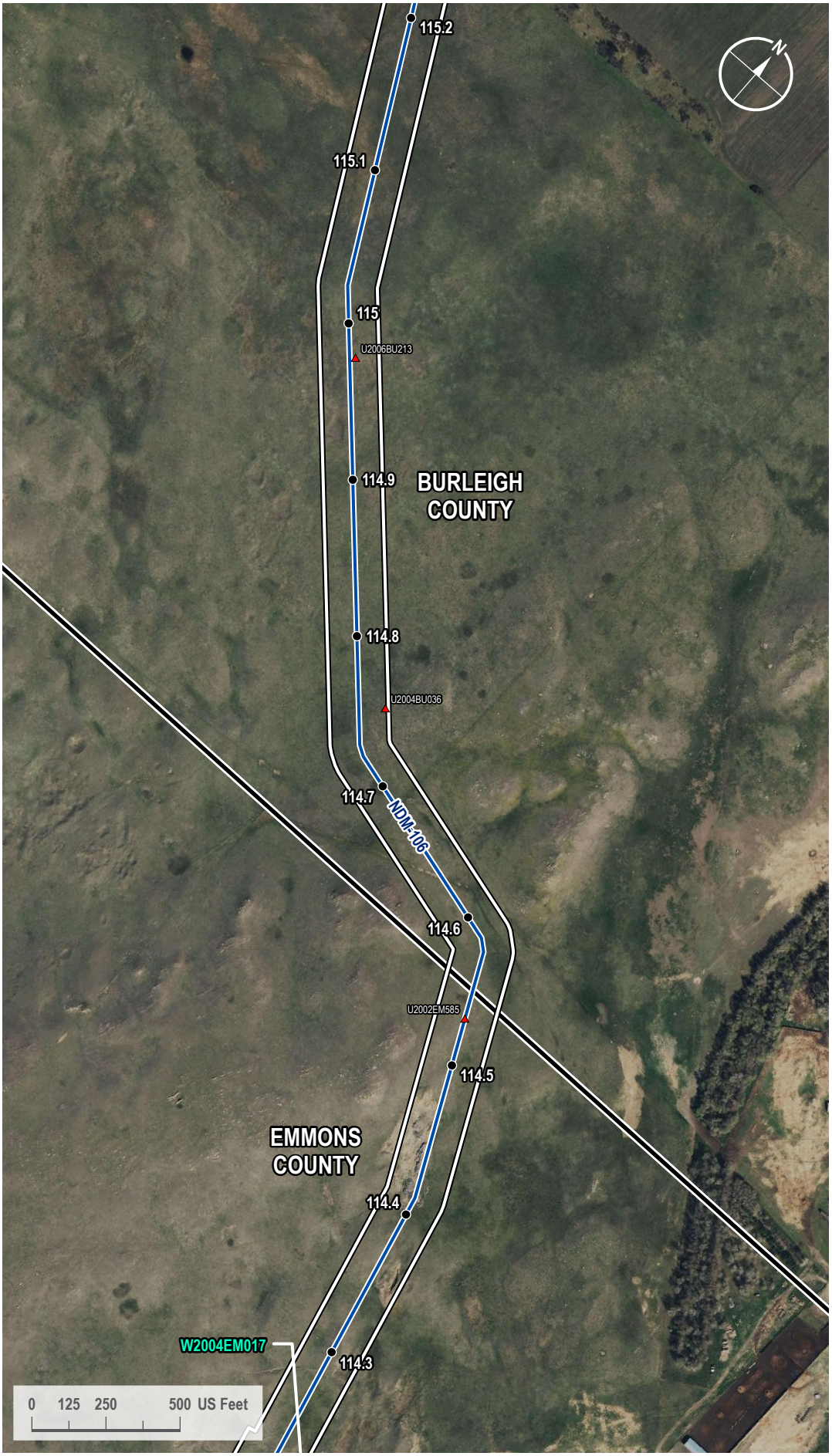

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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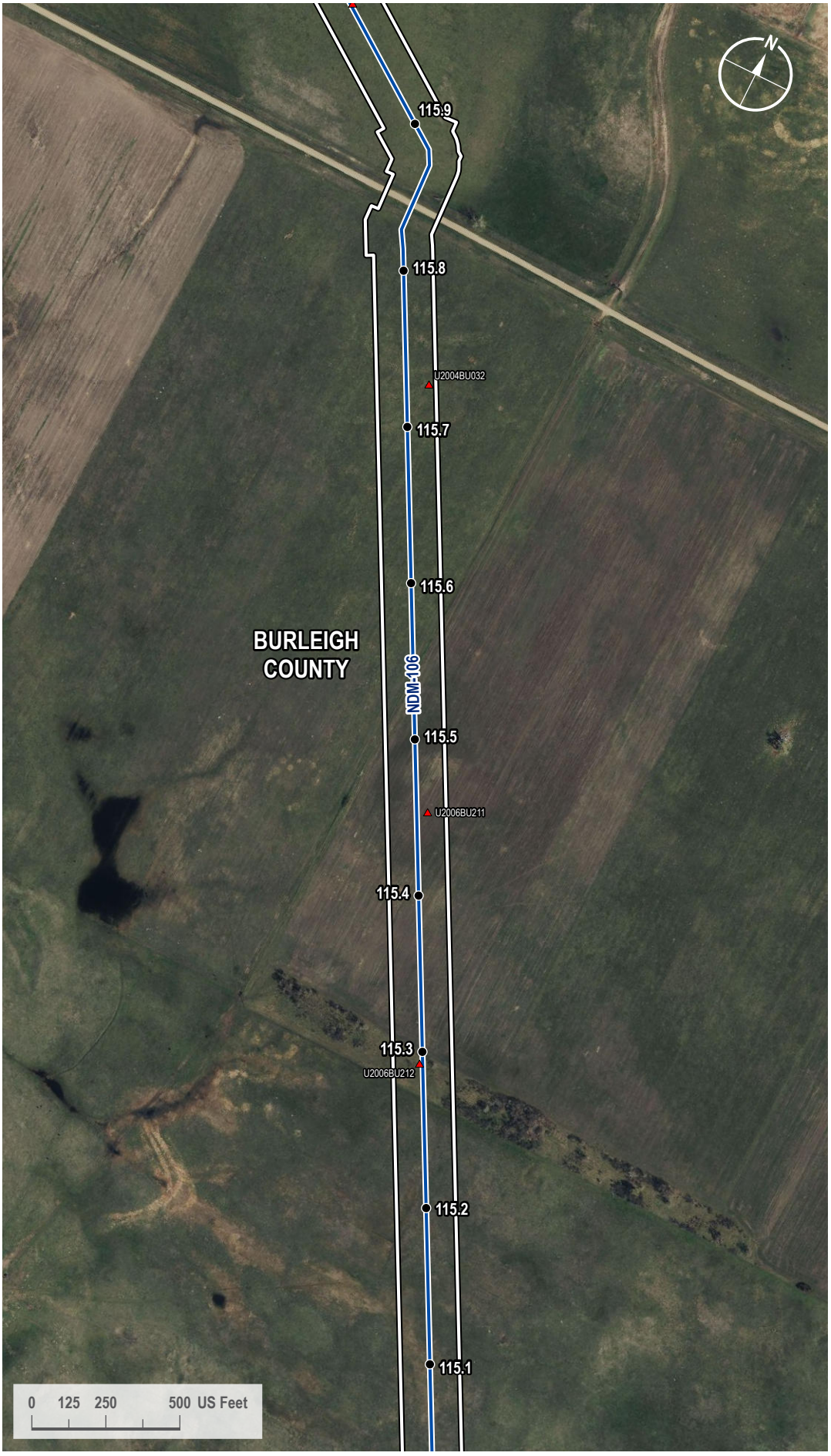

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor

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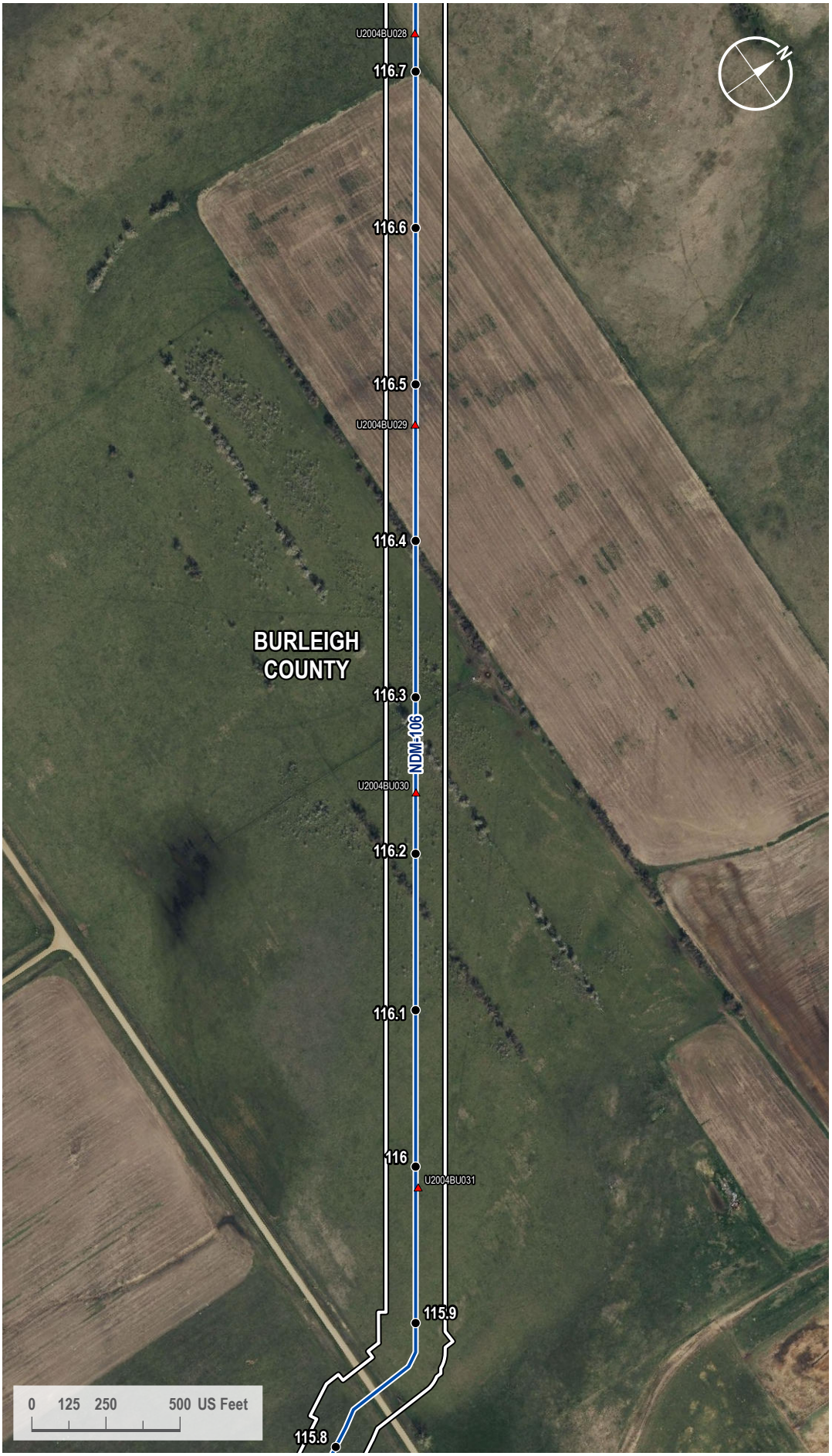

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LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor

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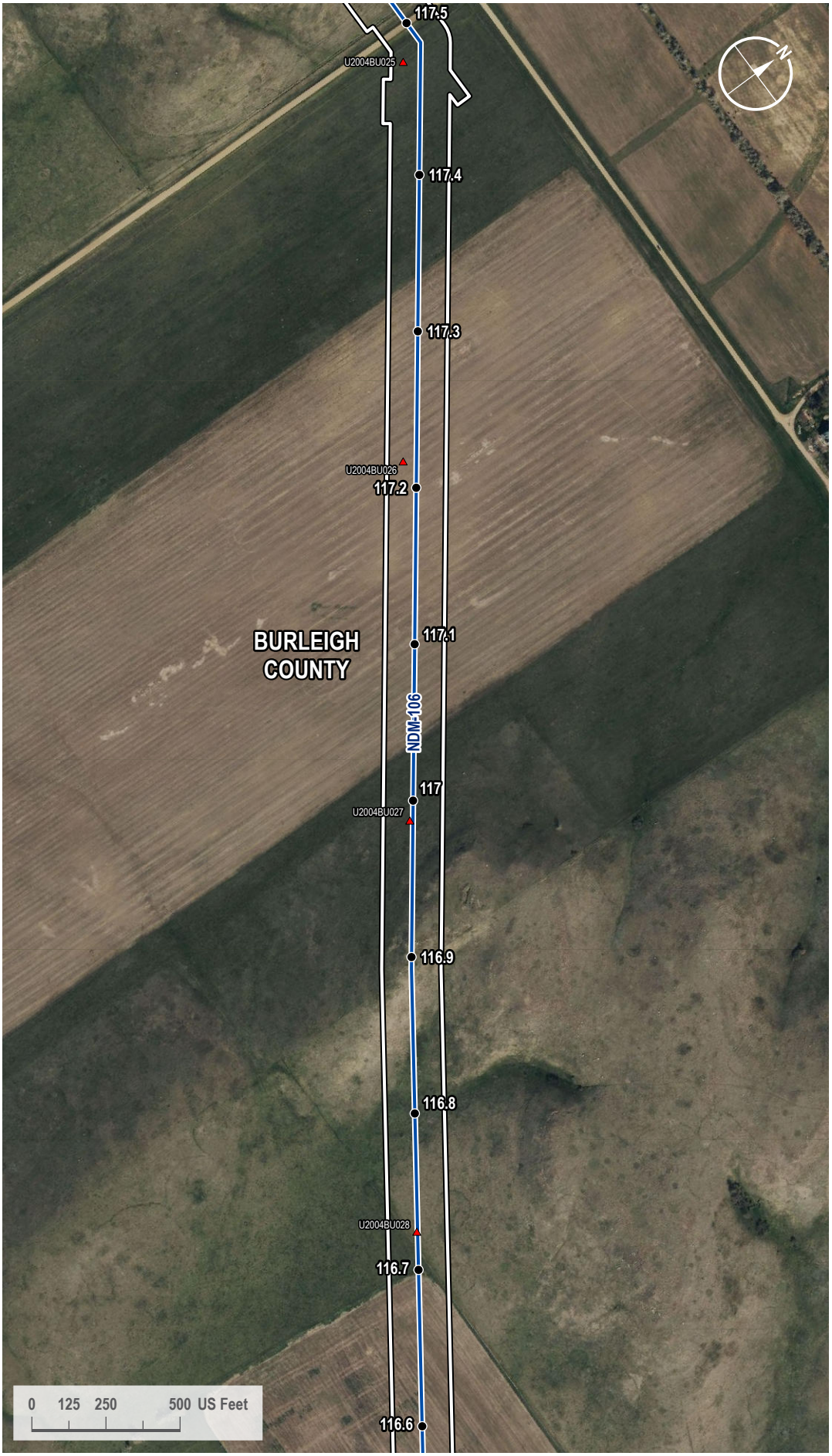

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VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor

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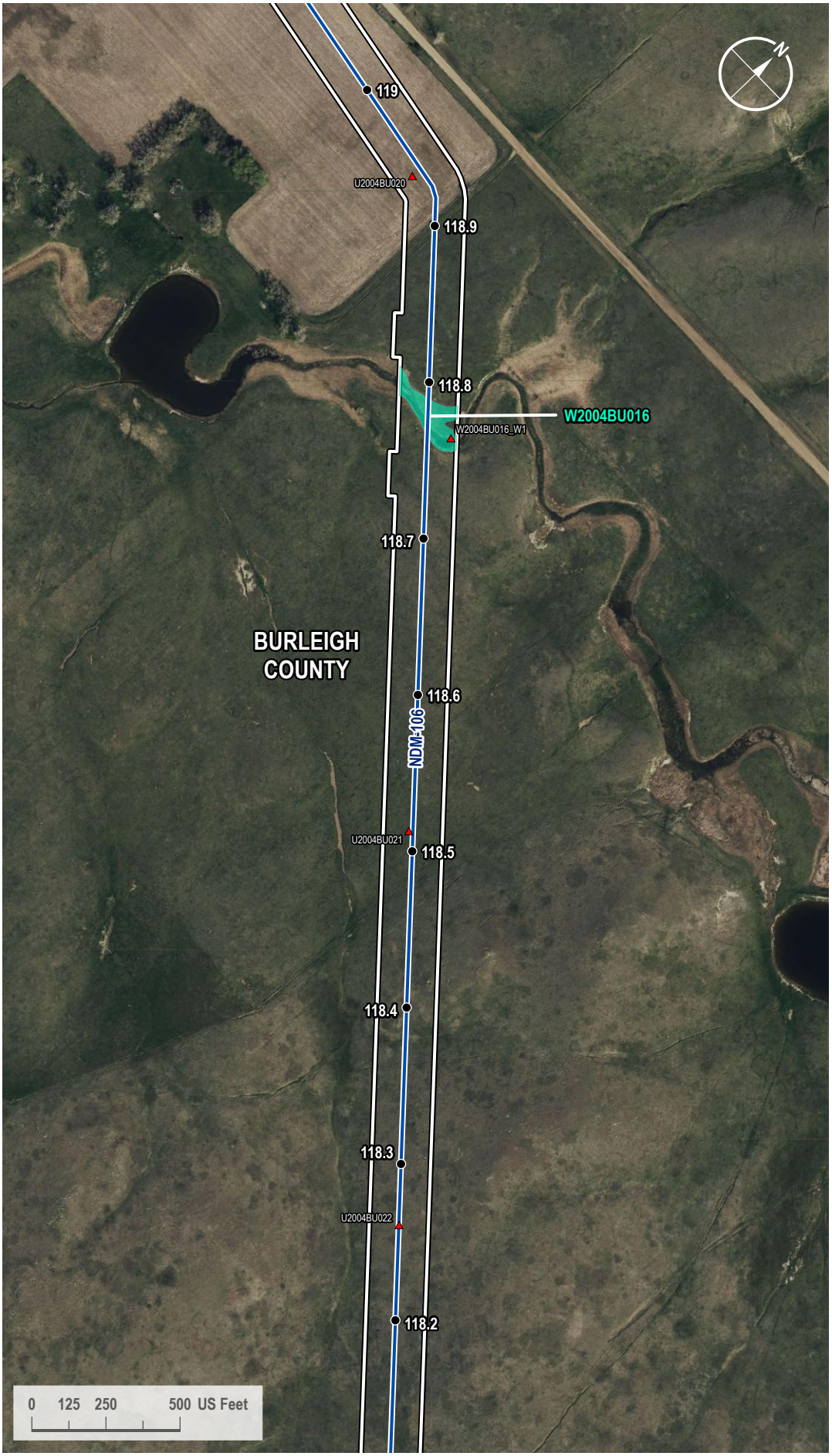

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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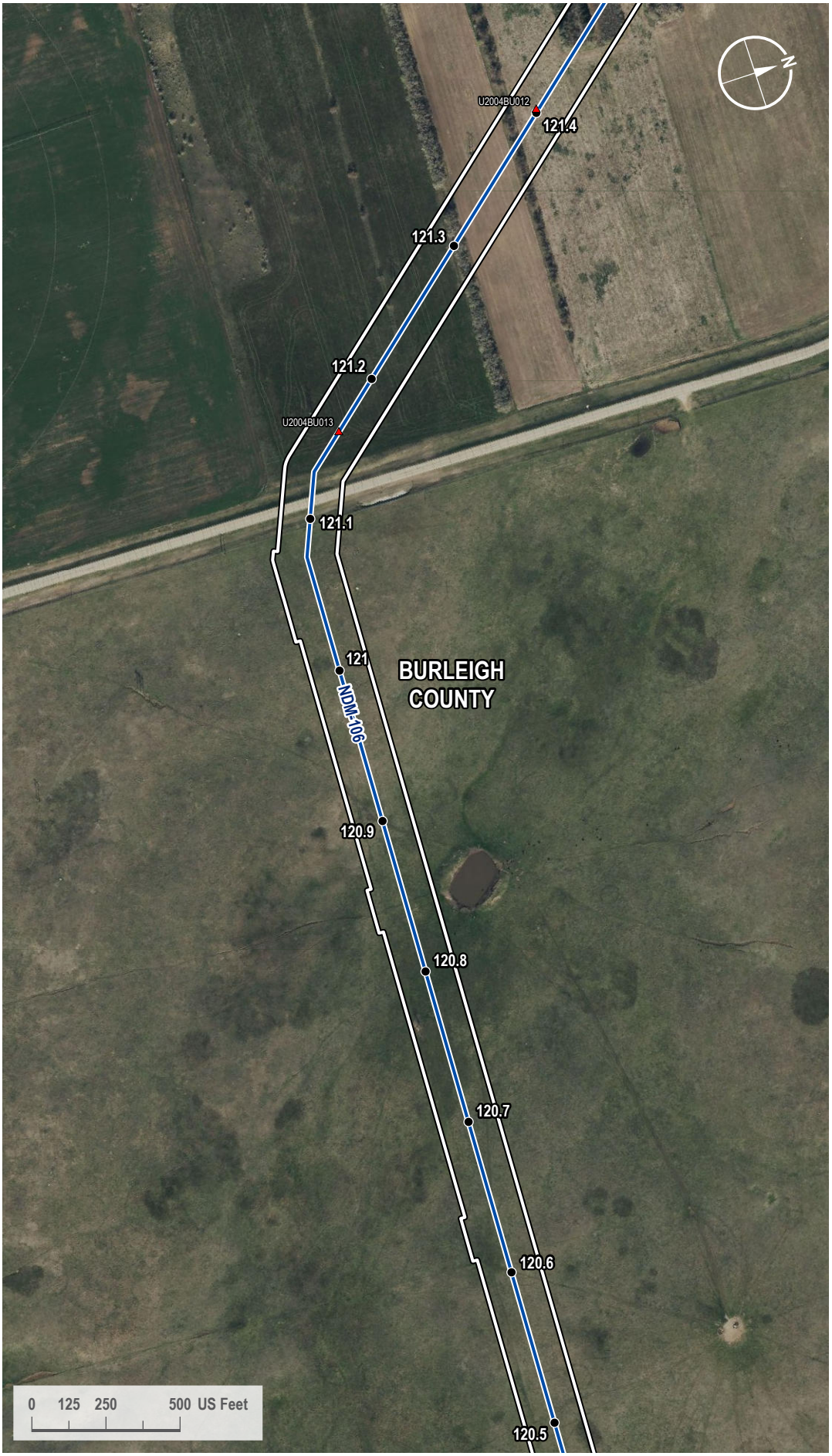

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor

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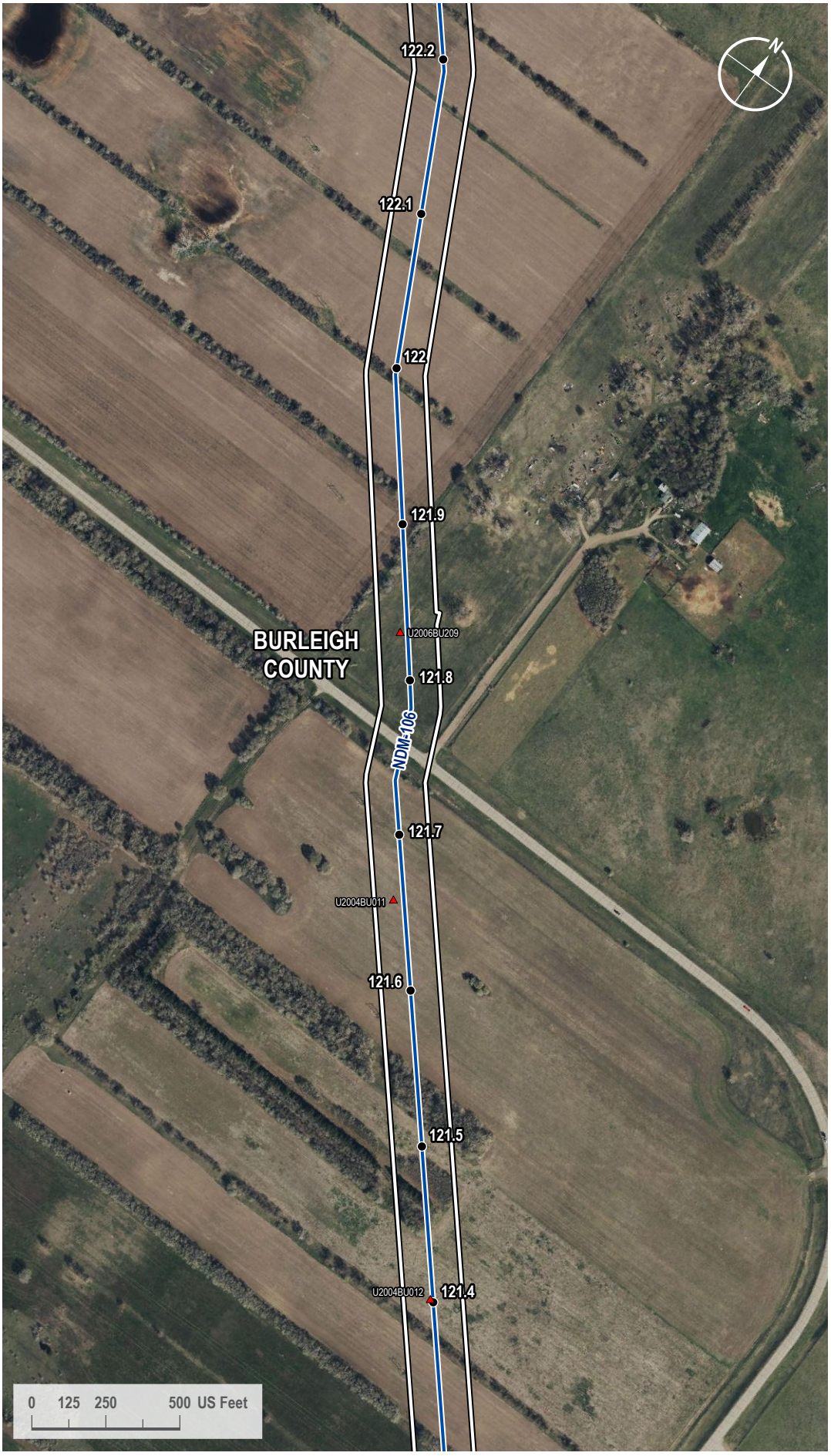

VICINITY MAP



LEGEND

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- Proposed Route
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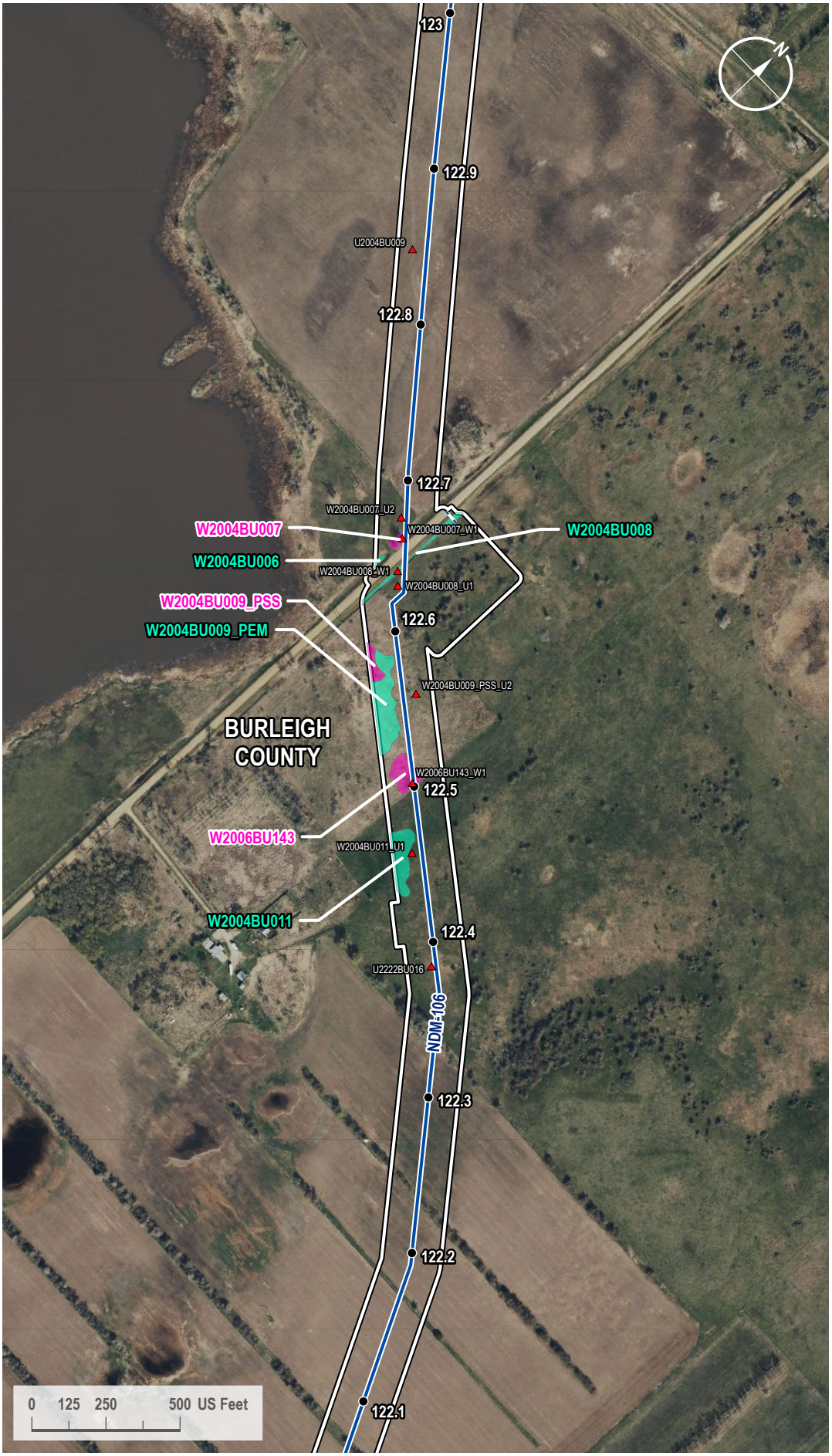

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Scrub-Shrub Wetland (Surveyed)

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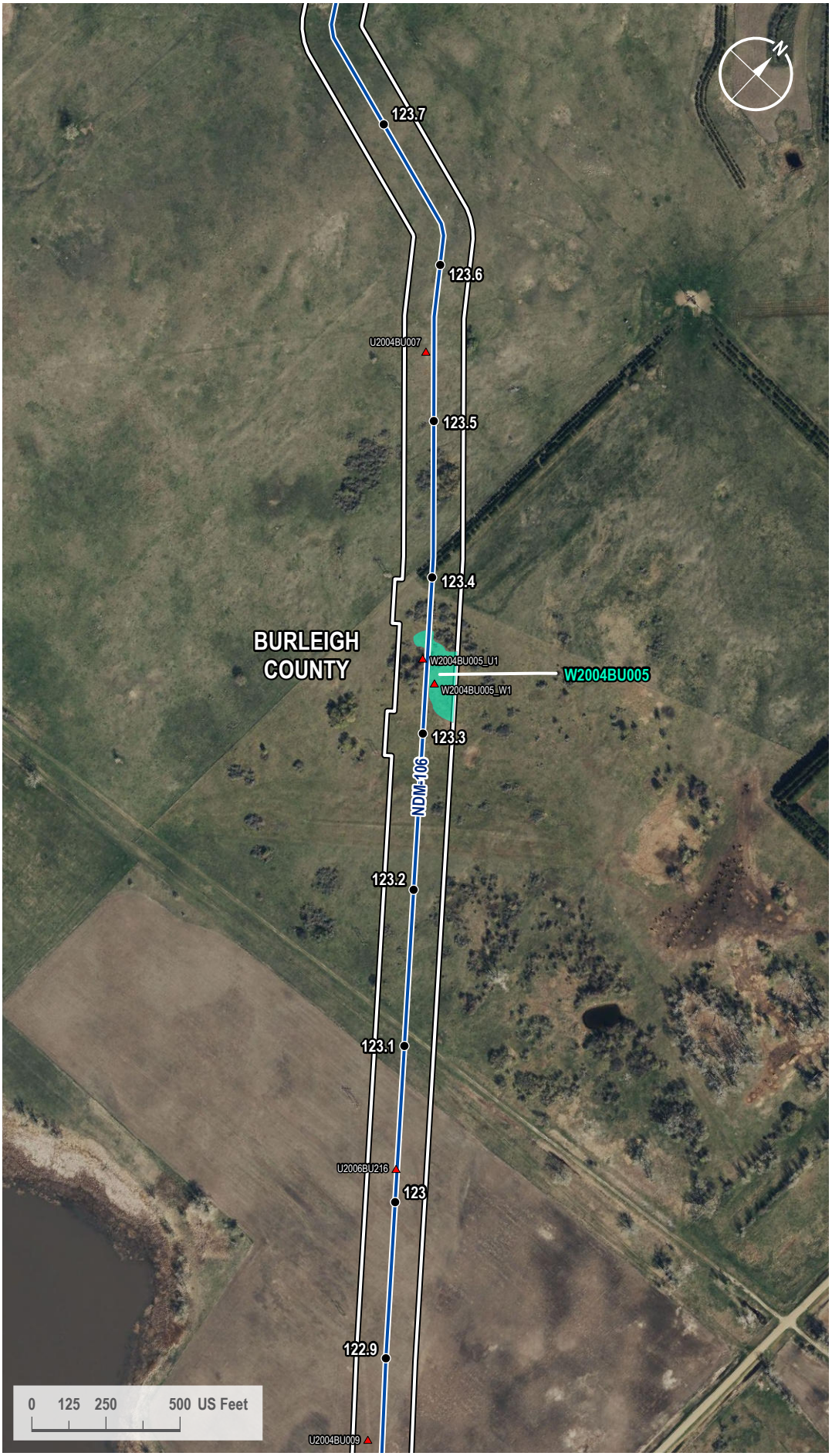

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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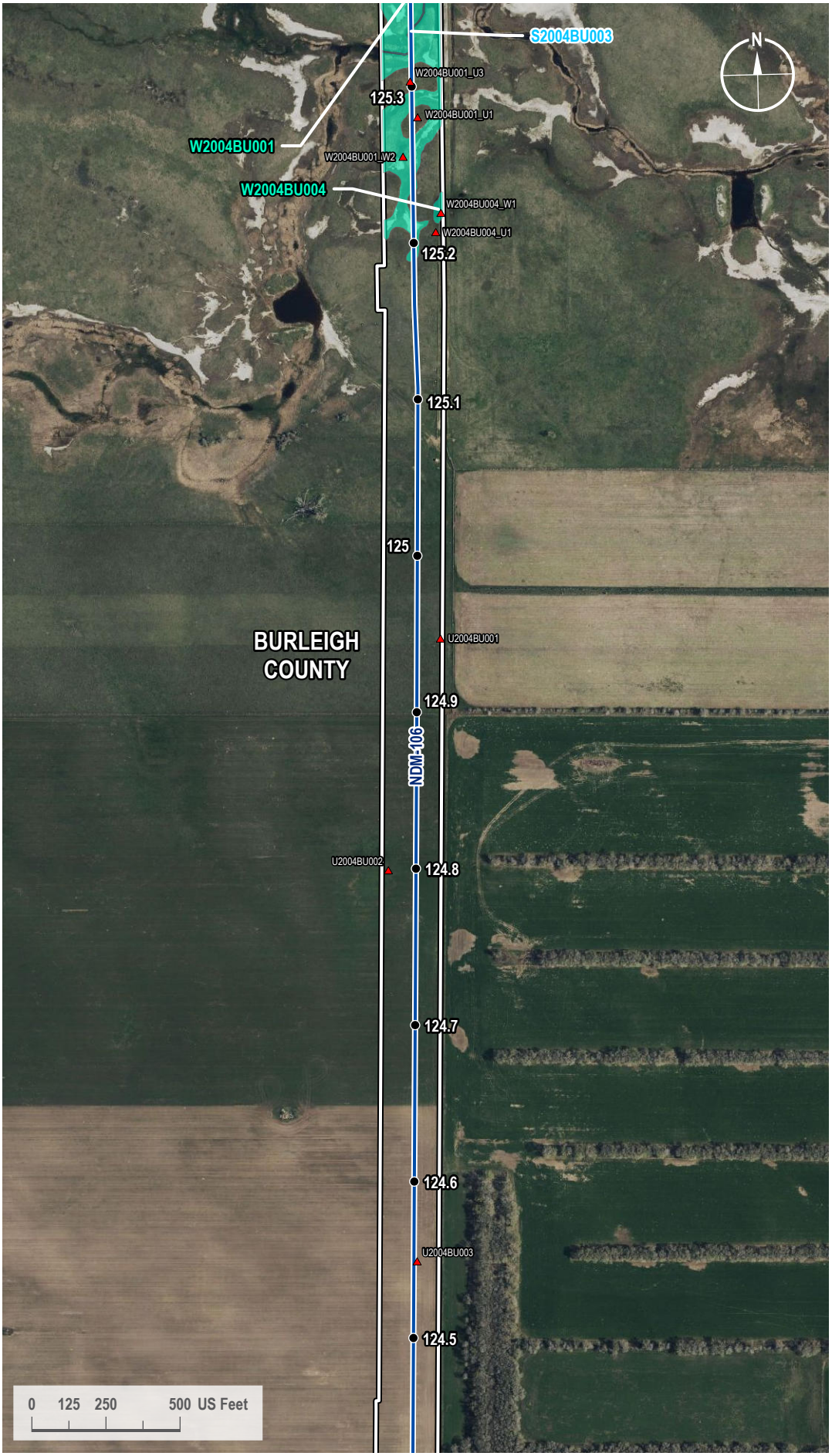

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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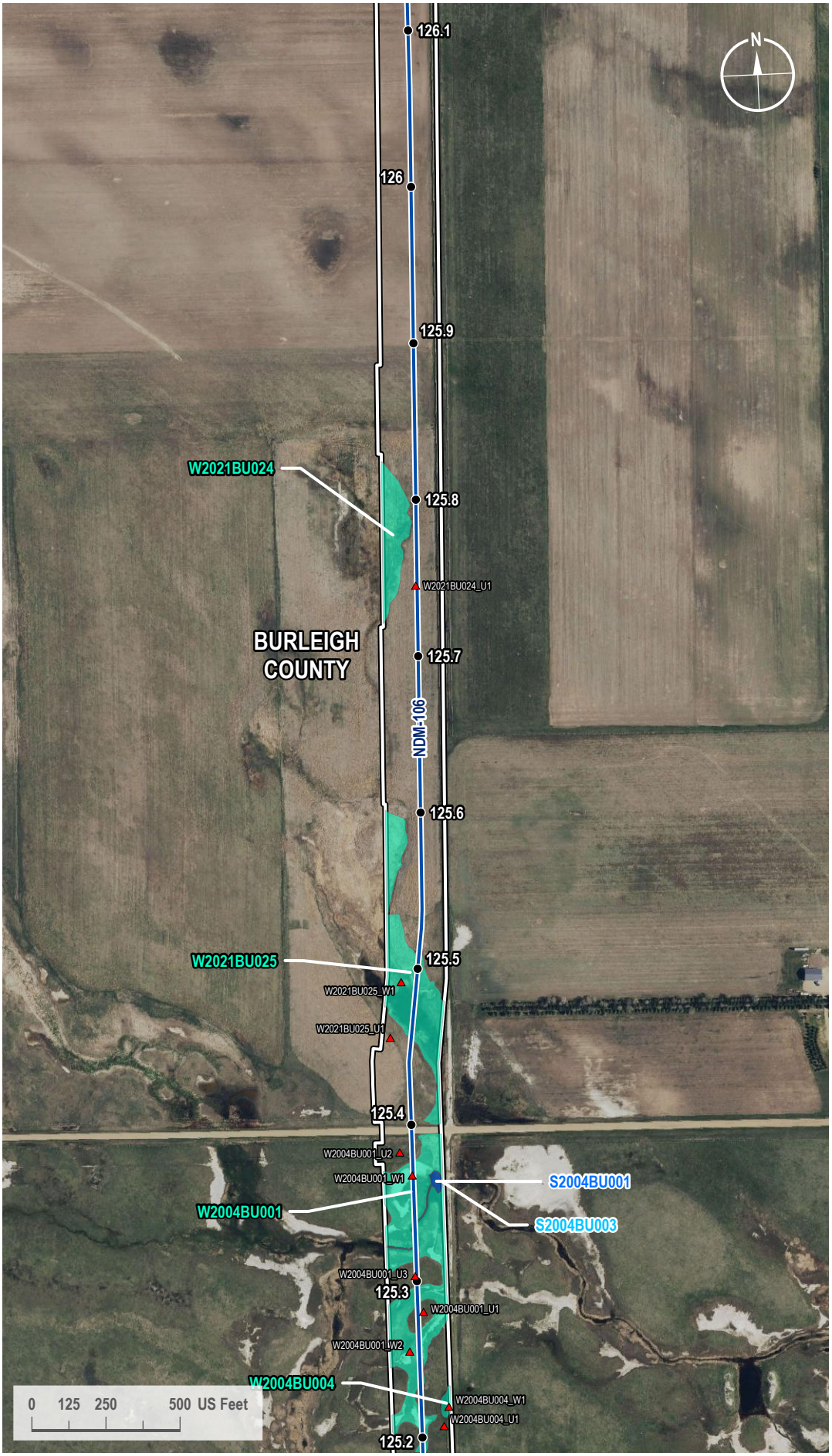

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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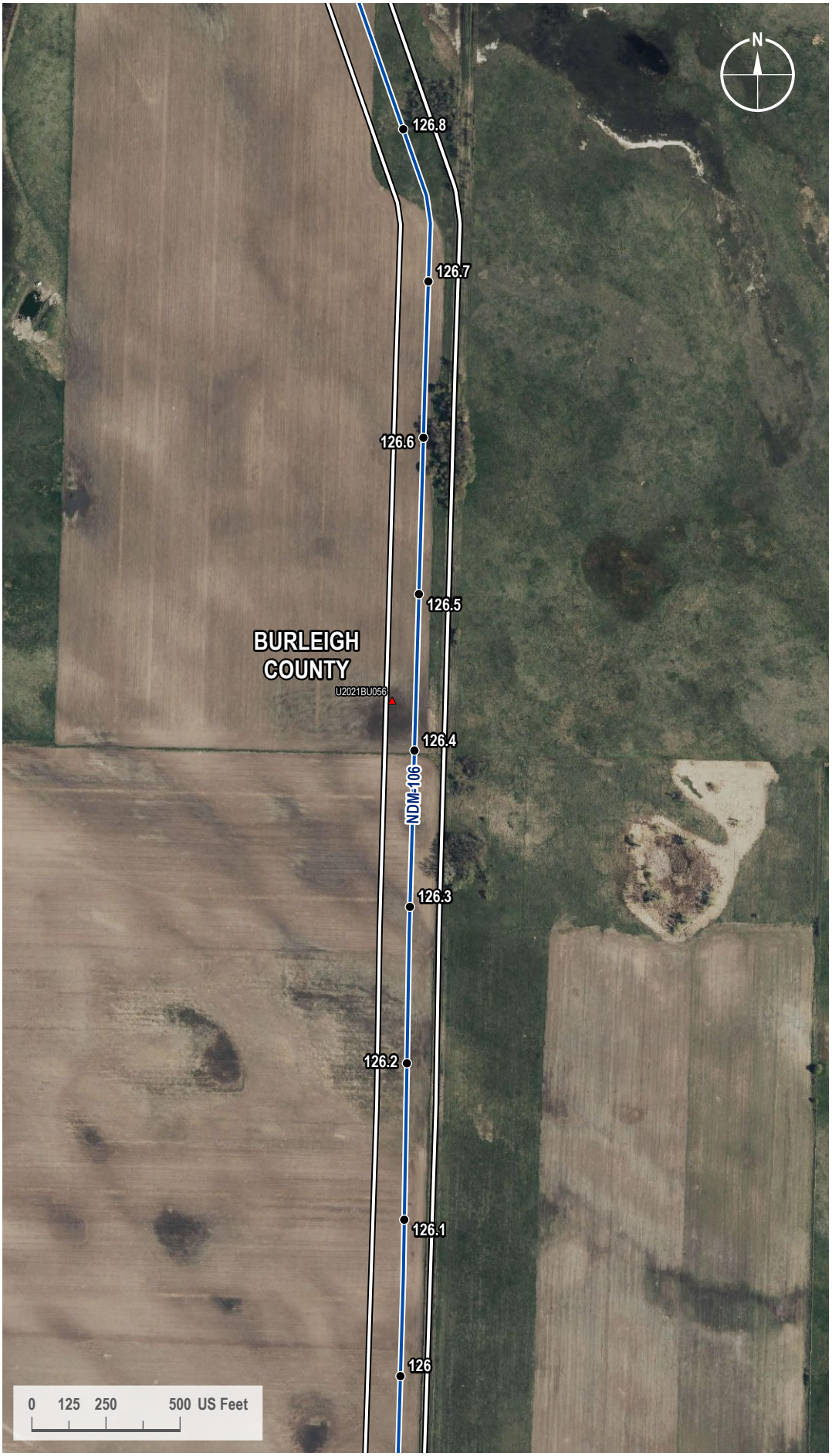

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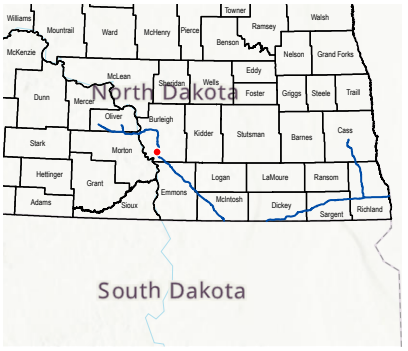

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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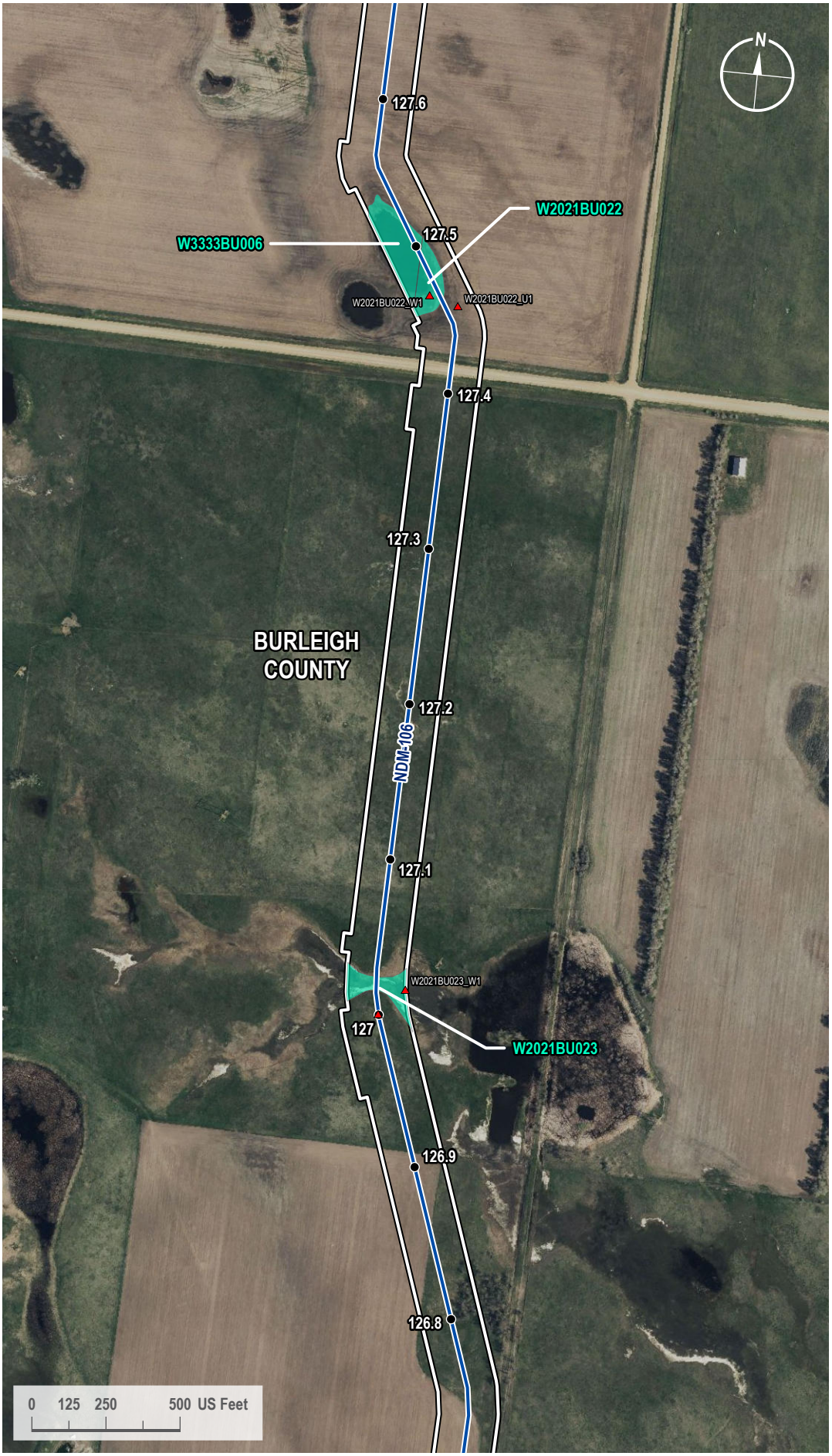

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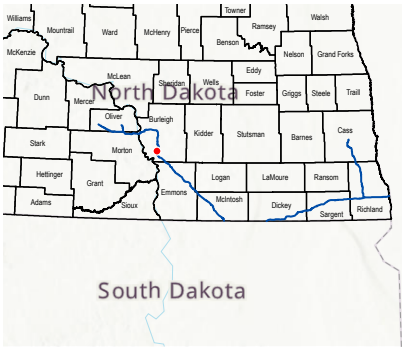

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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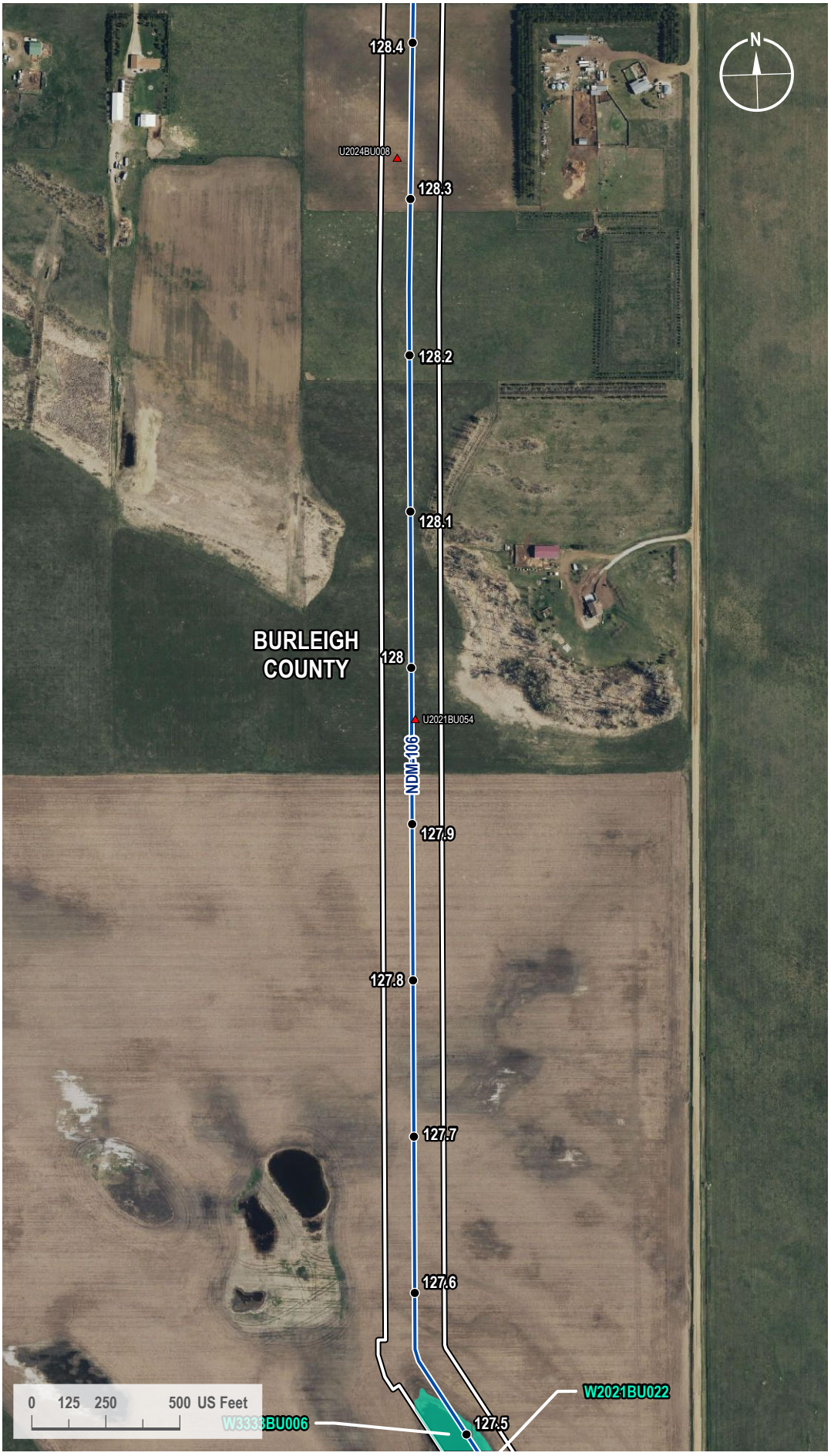

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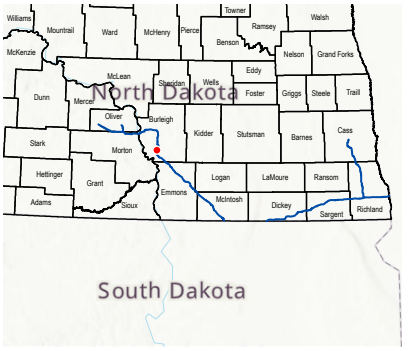

LEGEND

- Milepost
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- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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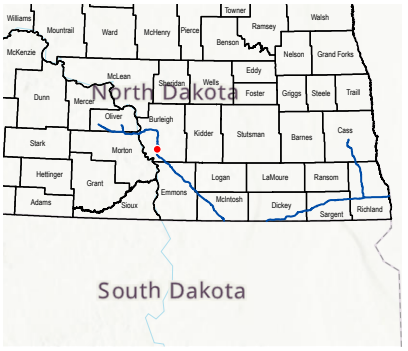

LEGEND

- Milepost
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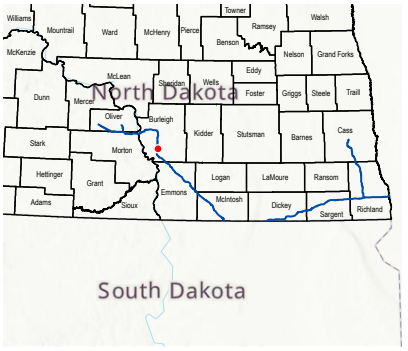

LEGEND

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- 200-foot Siting Corridor

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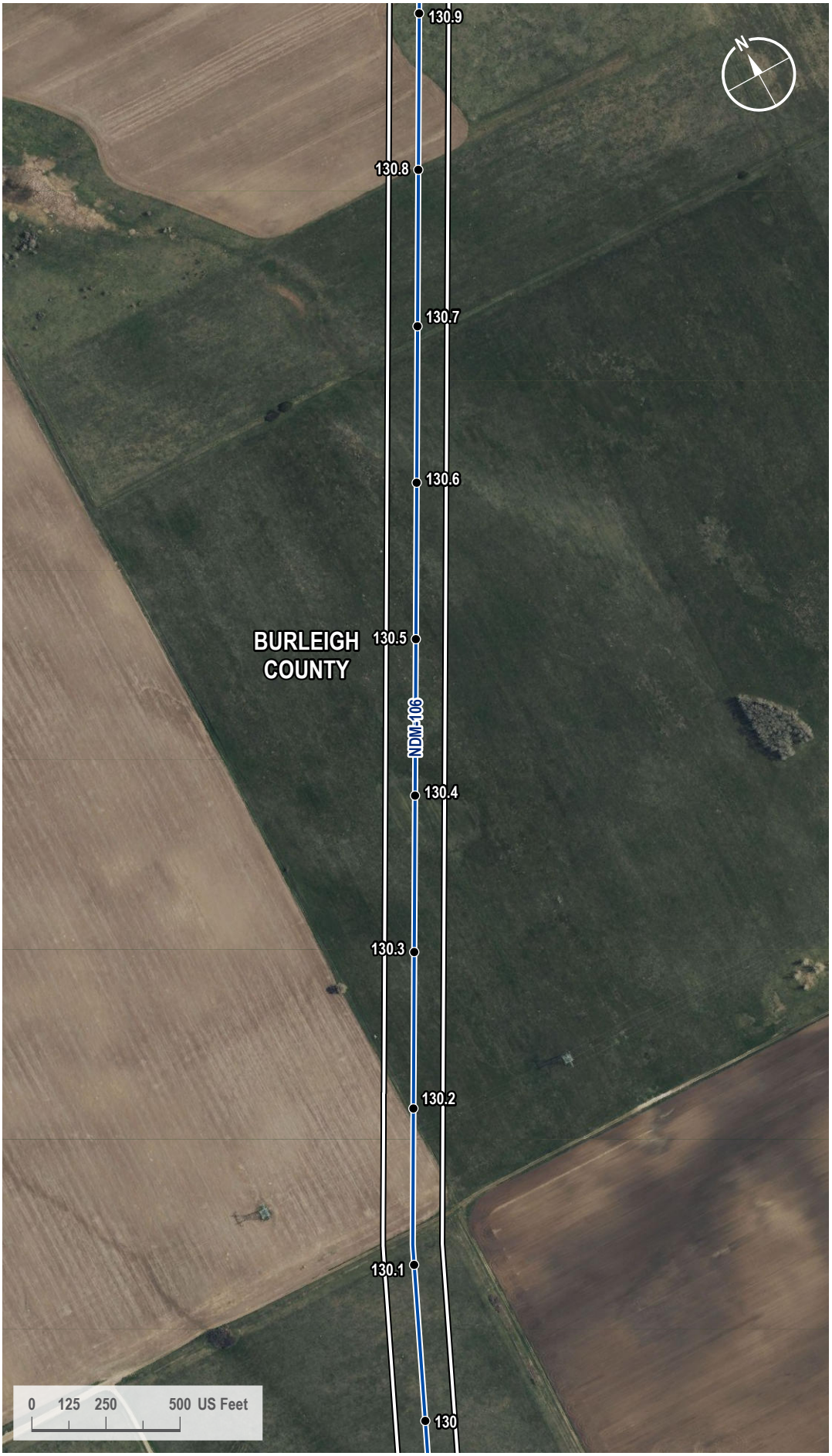

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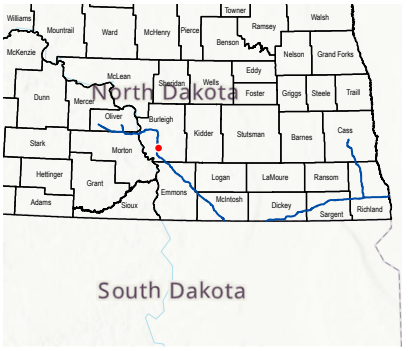

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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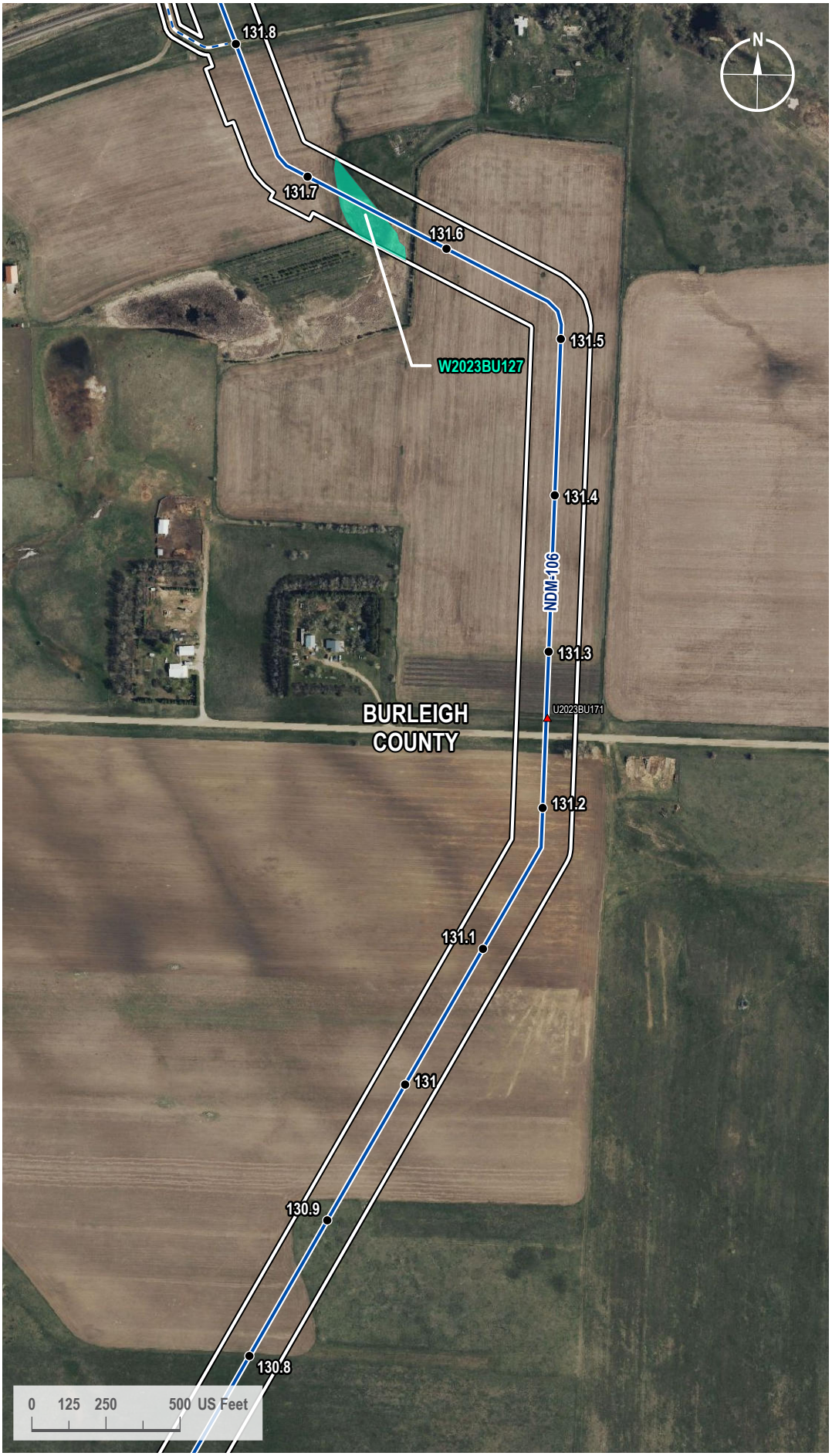

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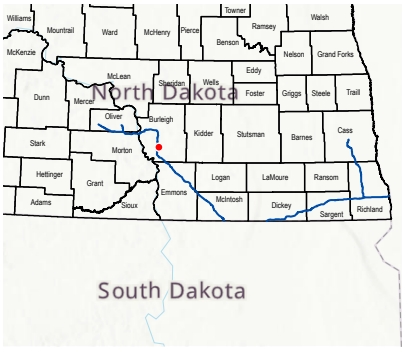

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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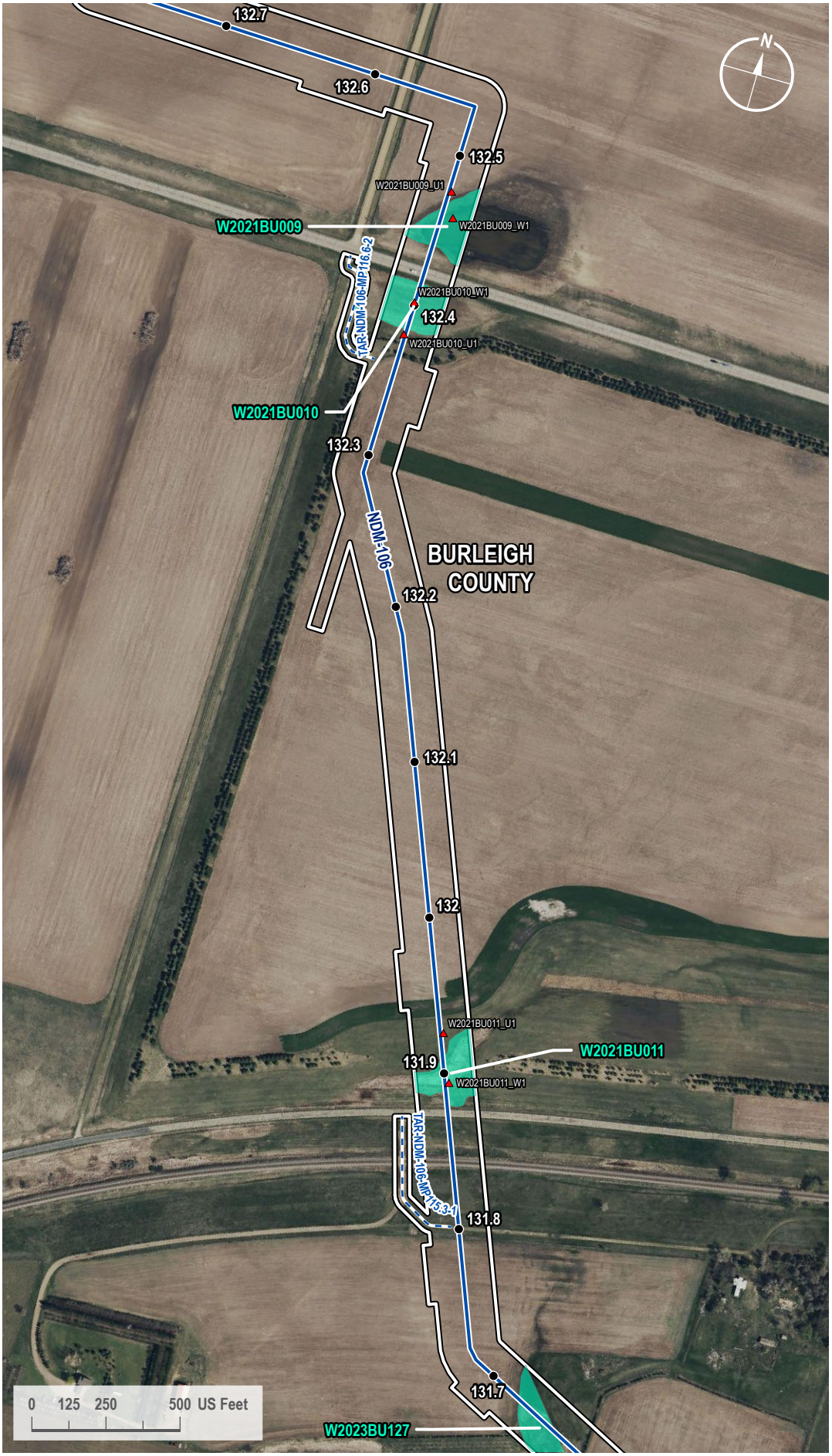

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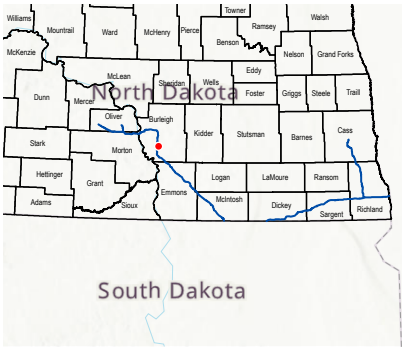

LEGEND

- Milepost
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- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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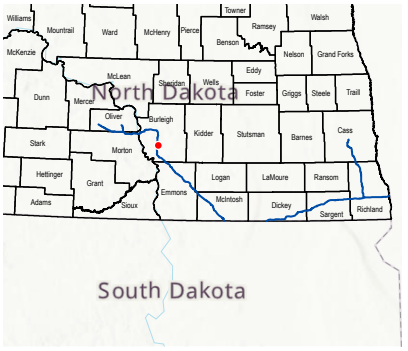
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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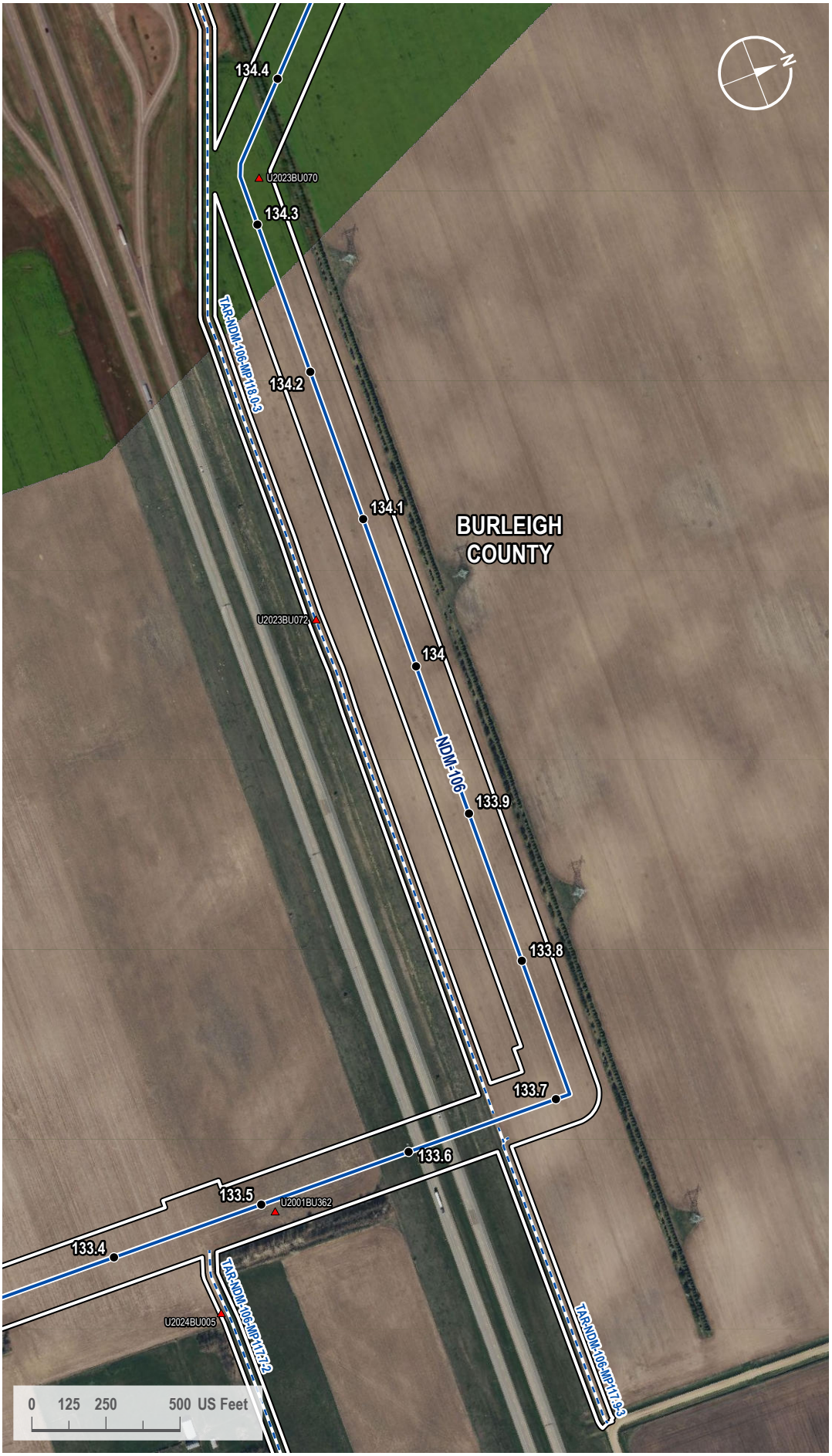

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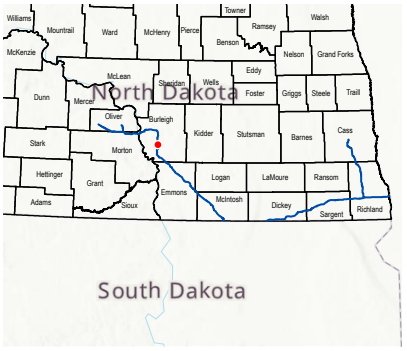

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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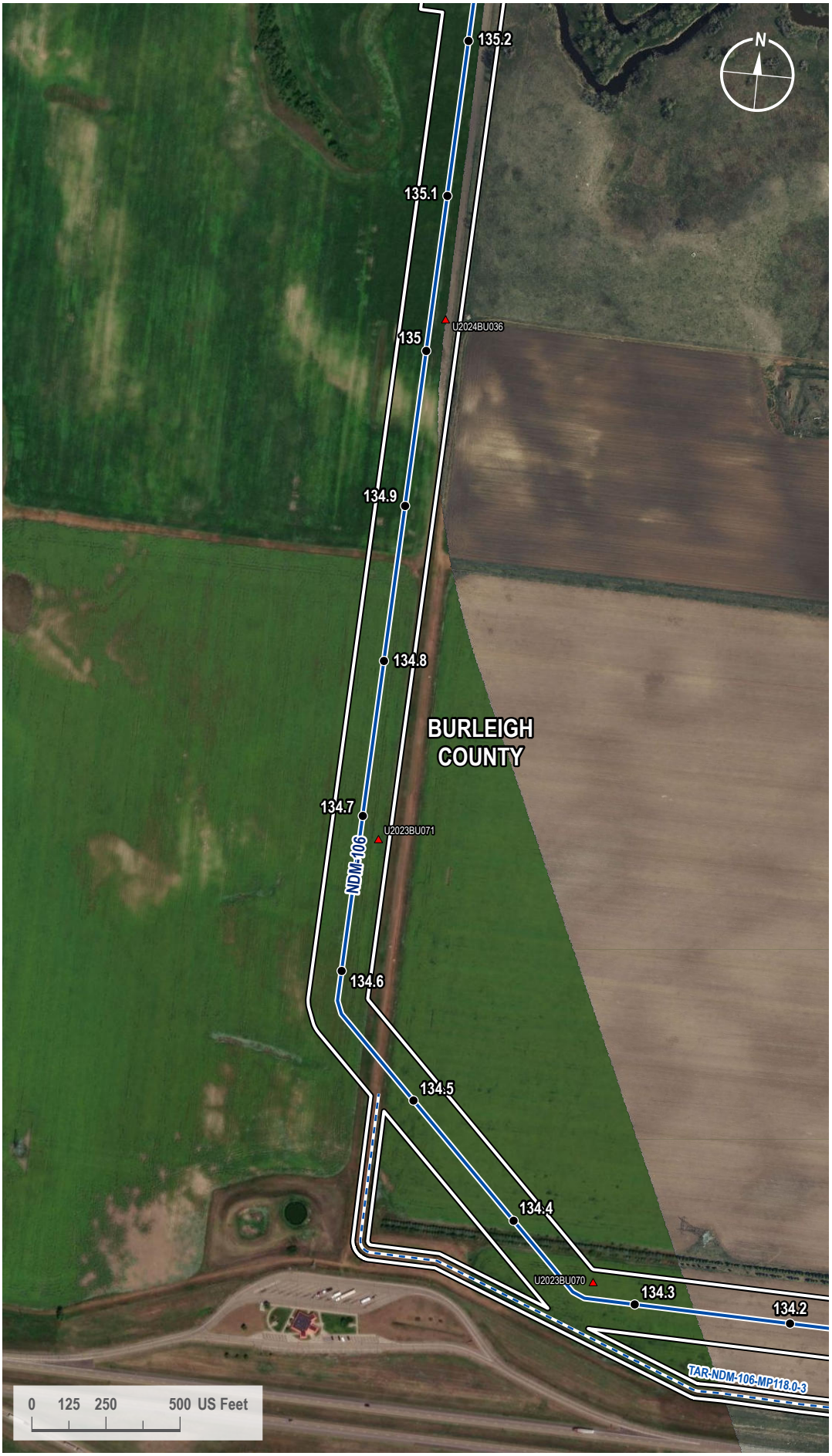

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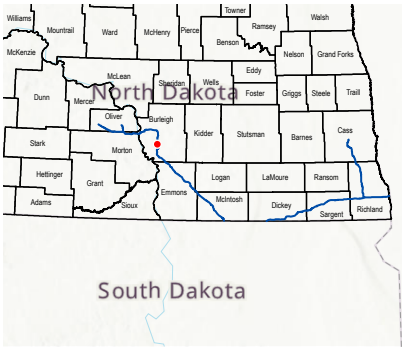

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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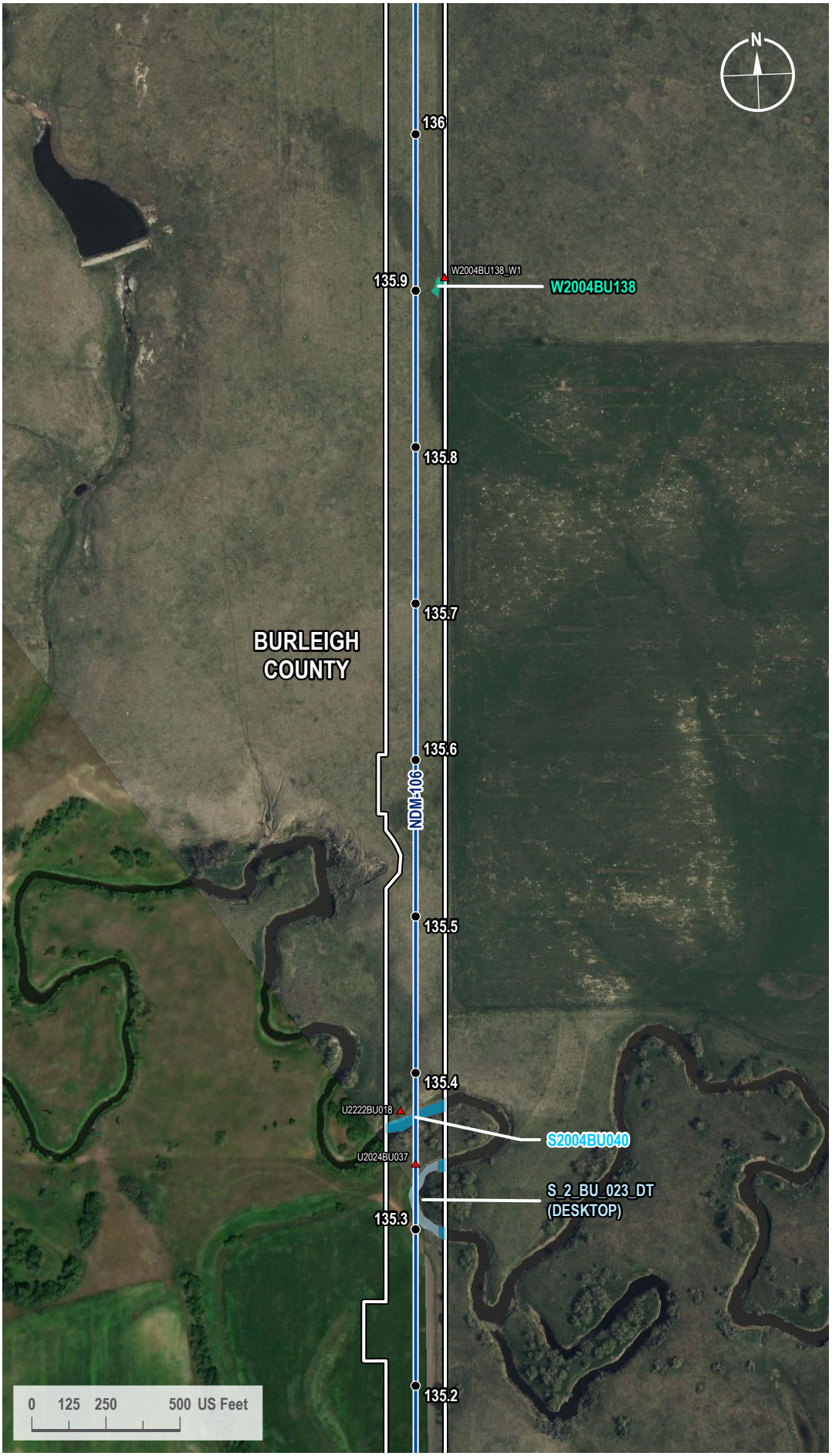

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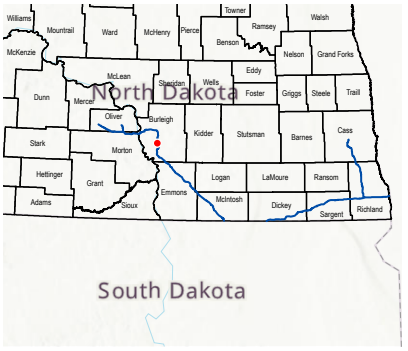

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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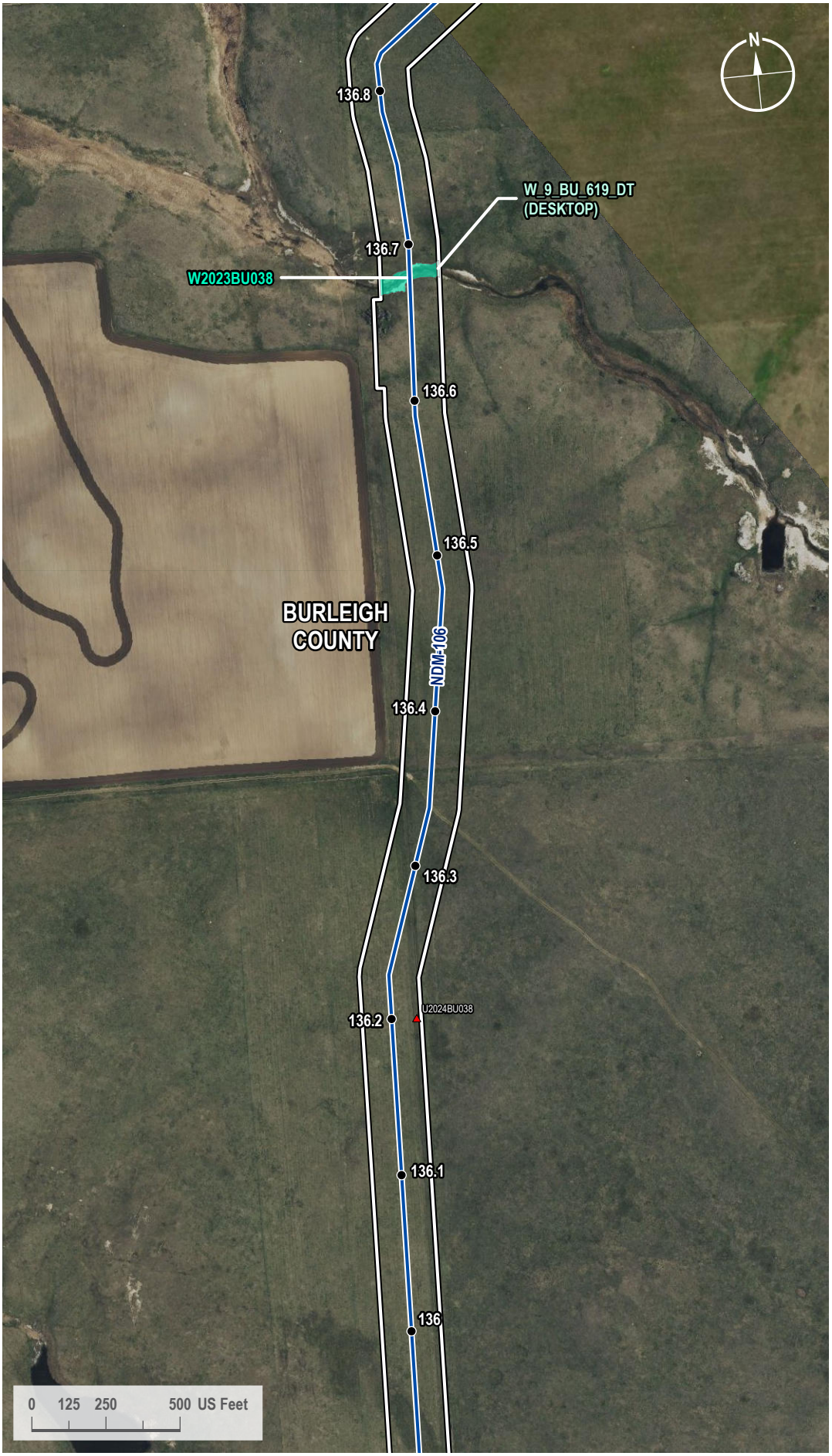

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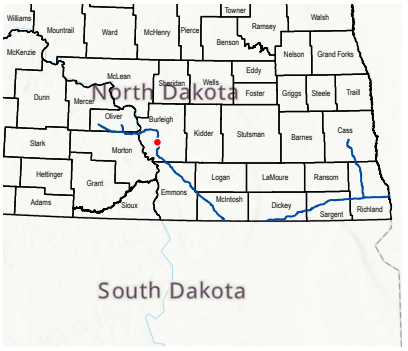

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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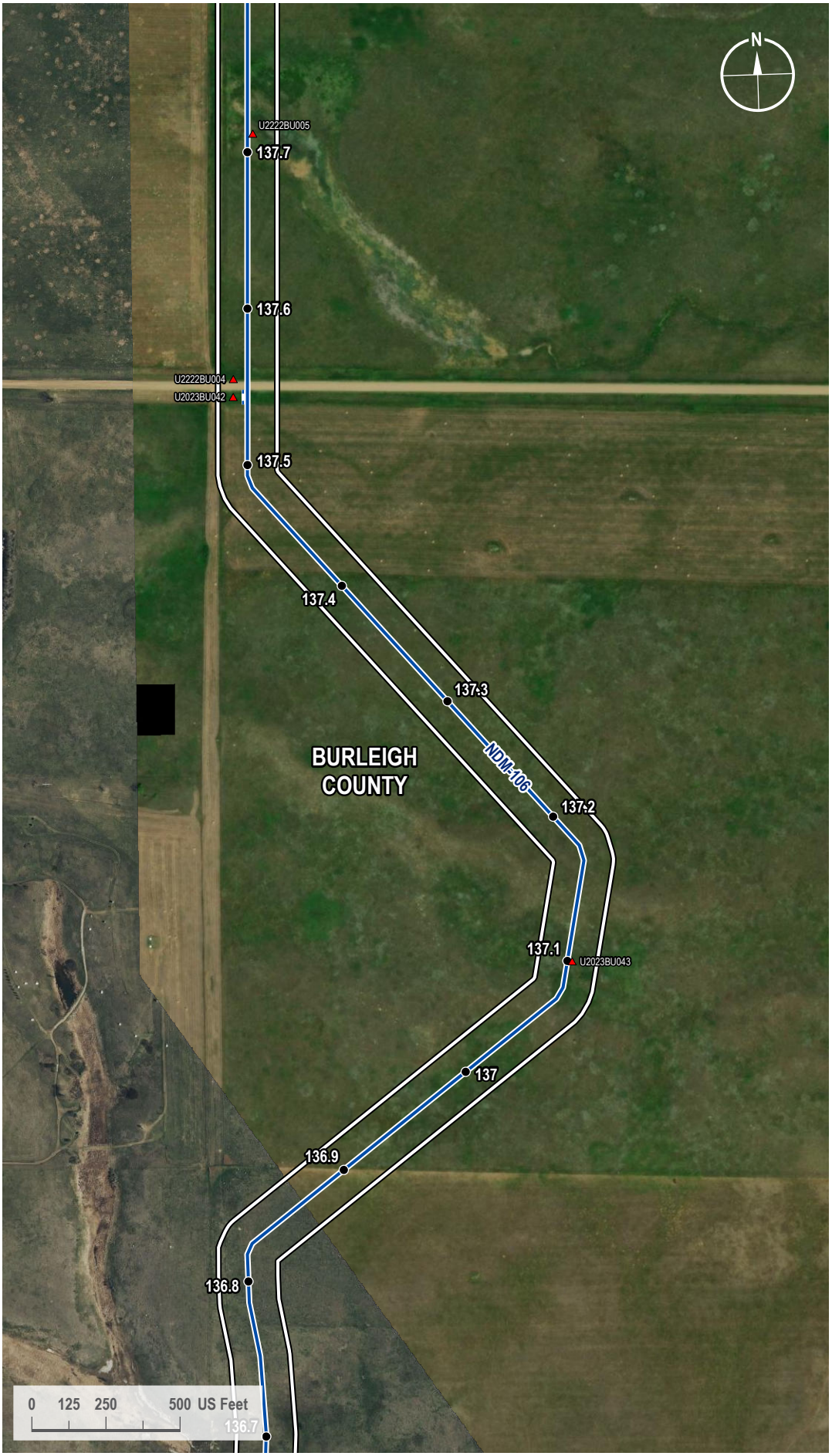

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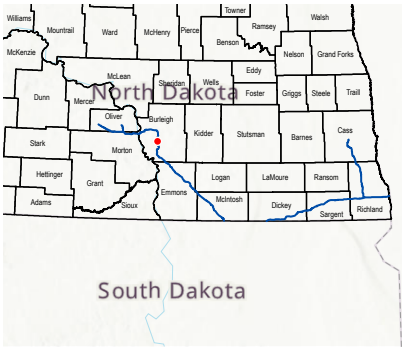

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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AERIAL MAP



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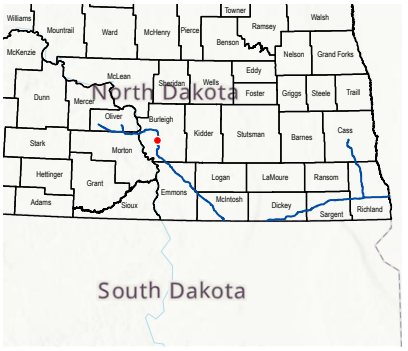

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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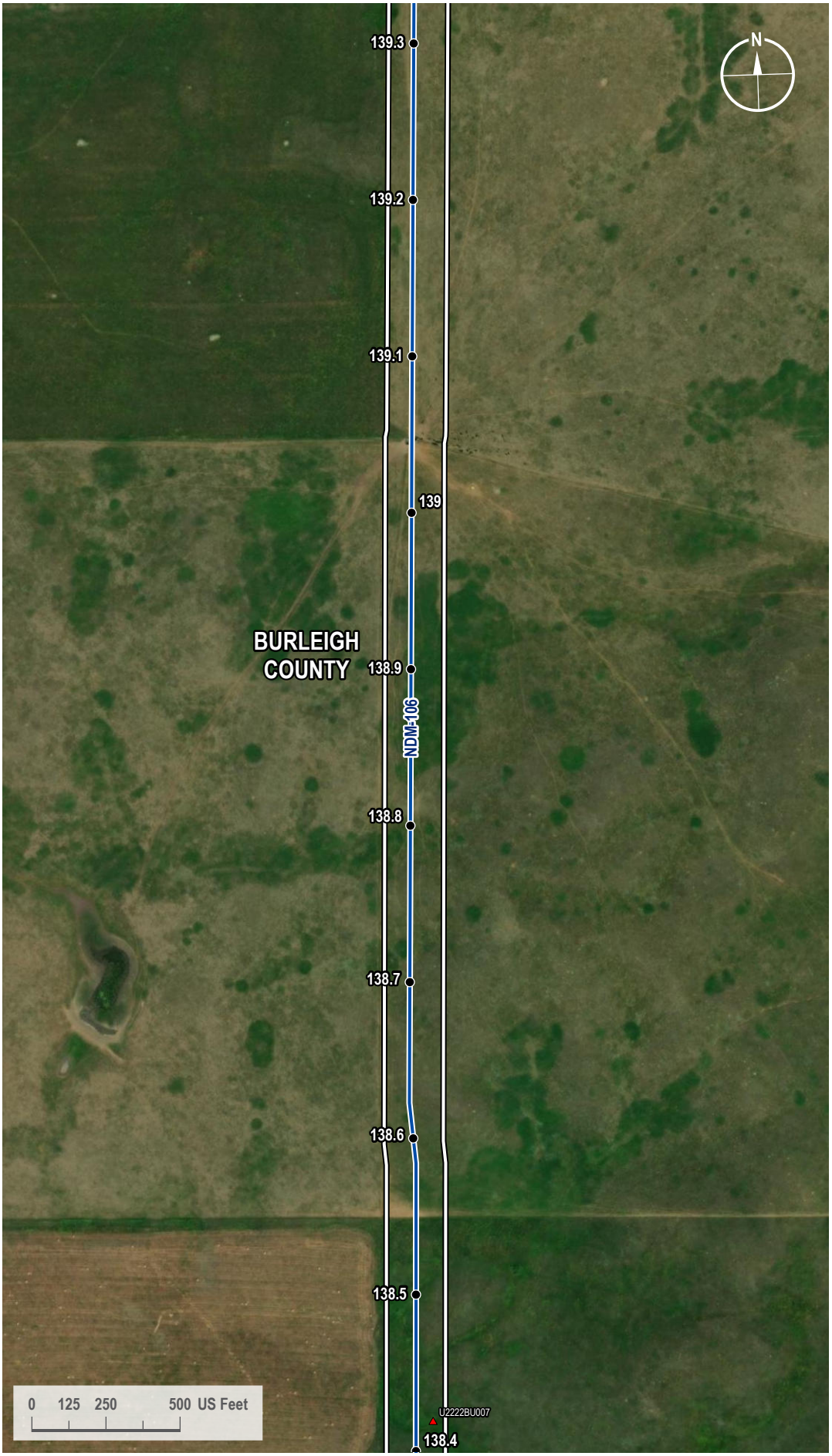

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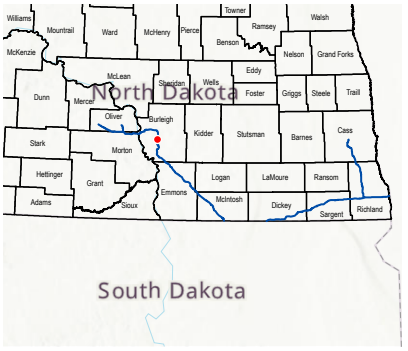

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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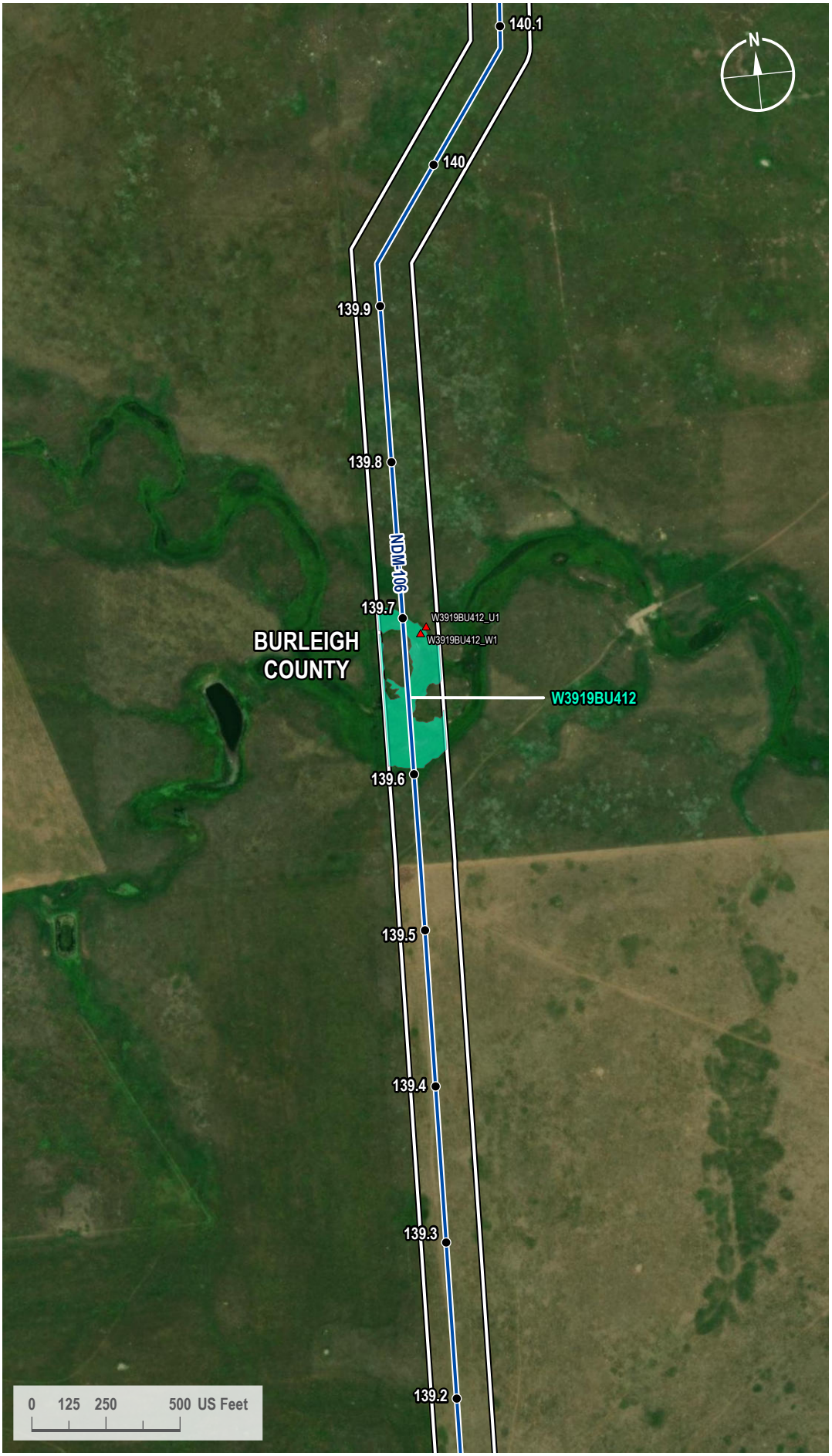

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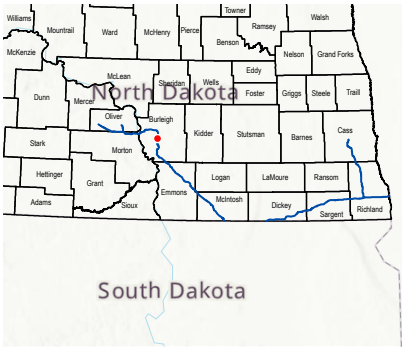

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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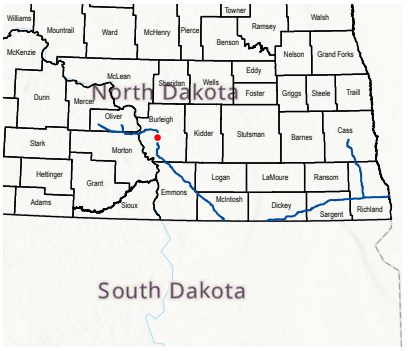

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



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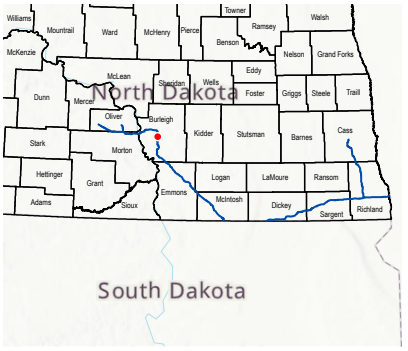

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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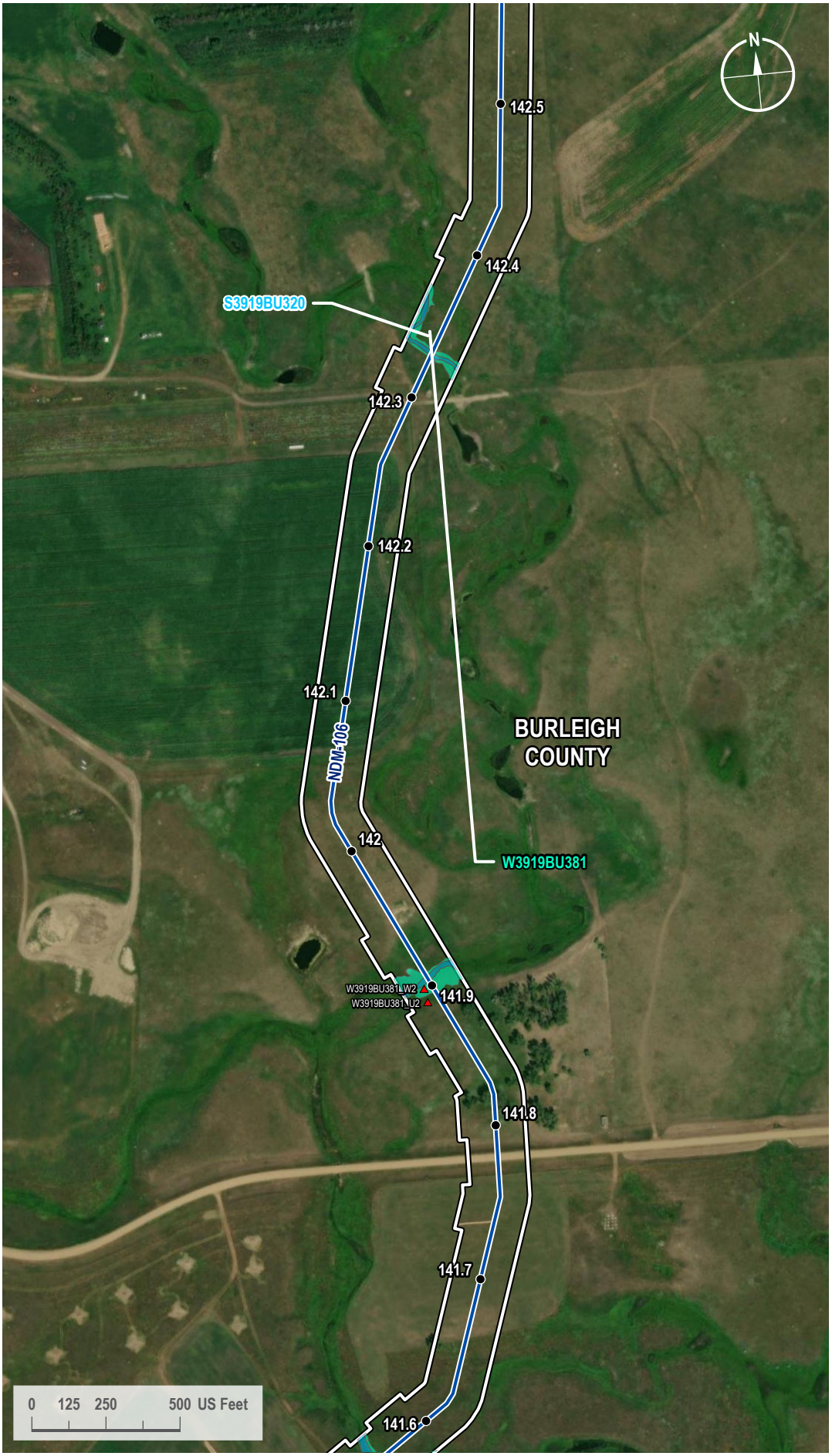

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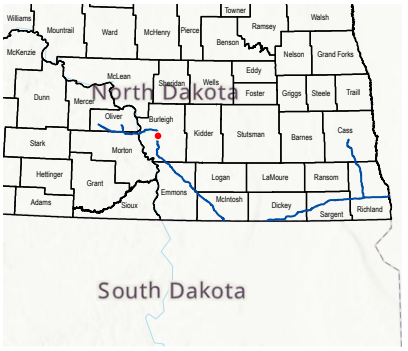

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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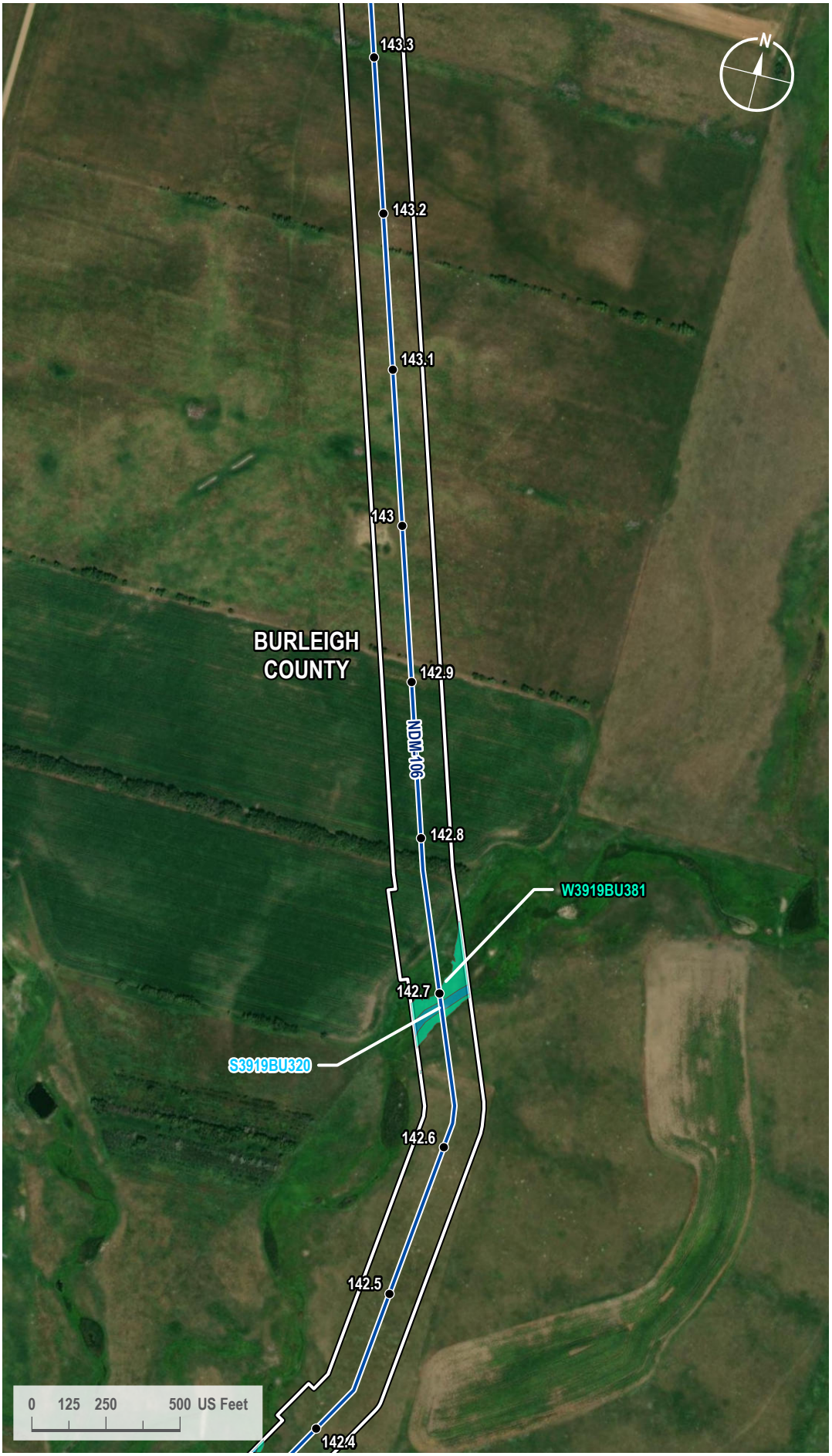

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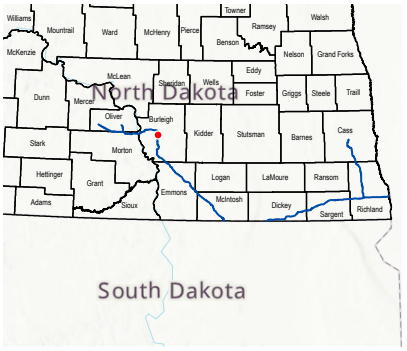

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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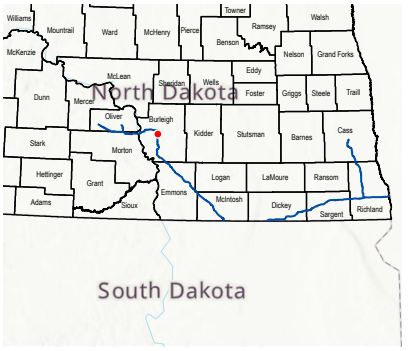

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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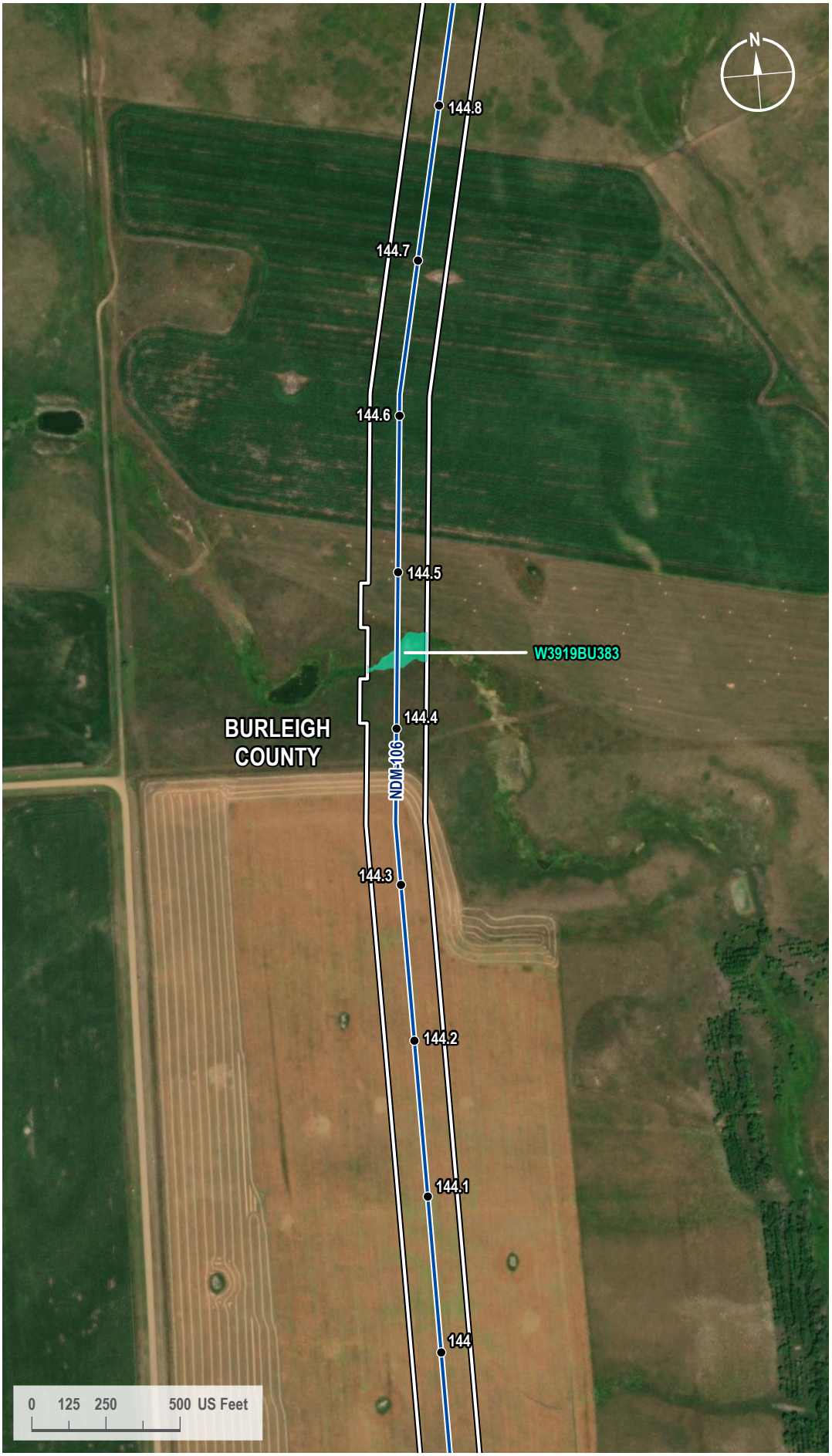

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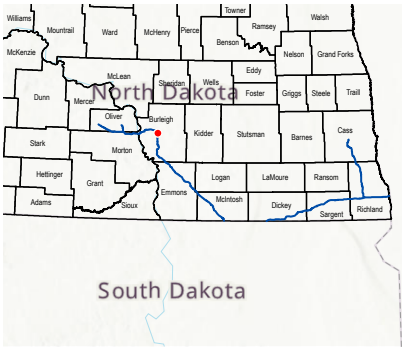

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



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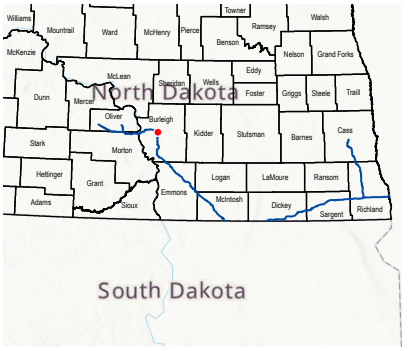

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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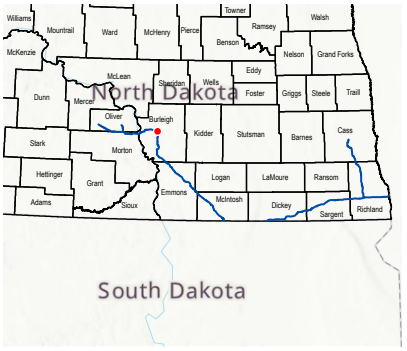
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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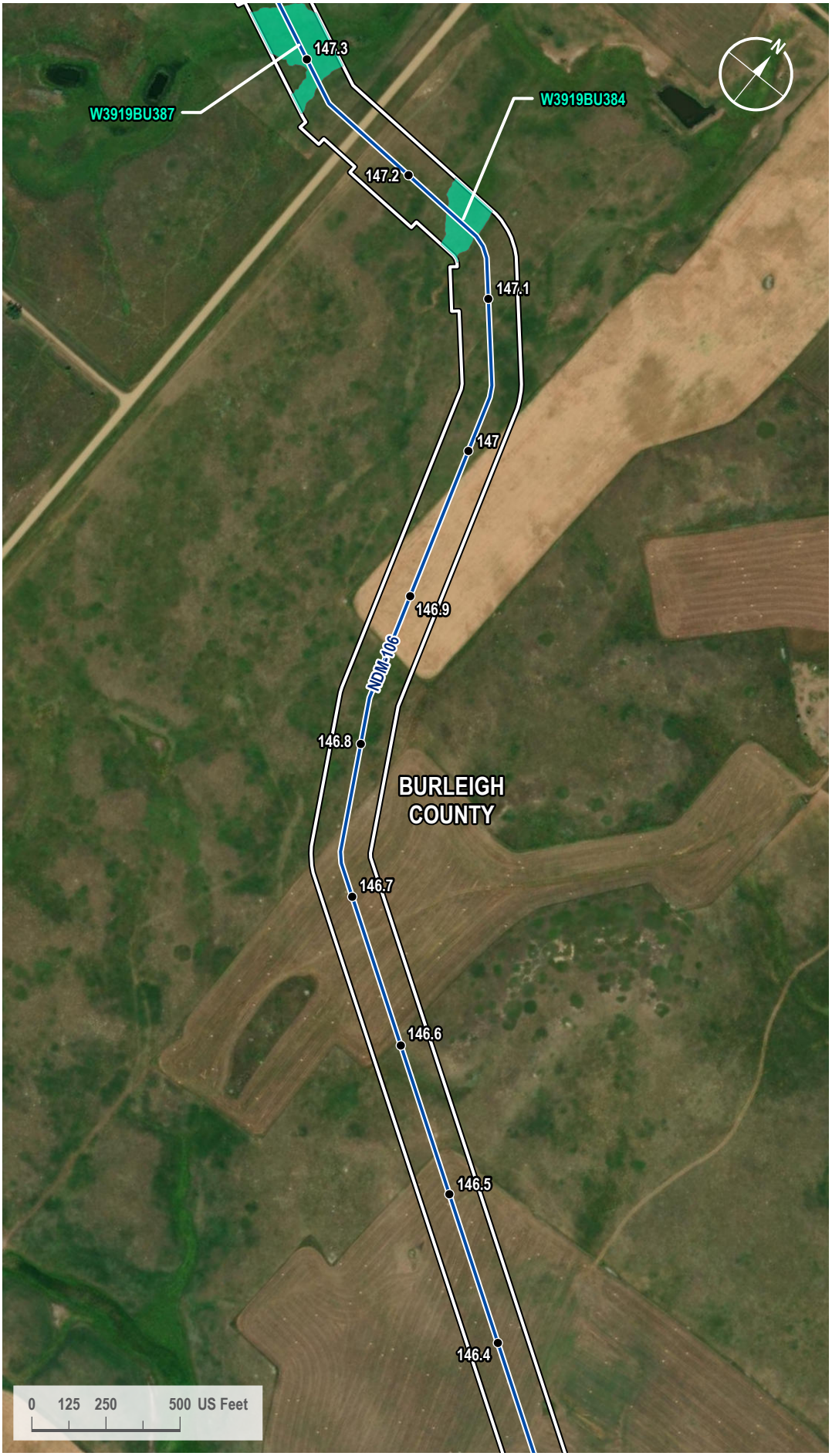

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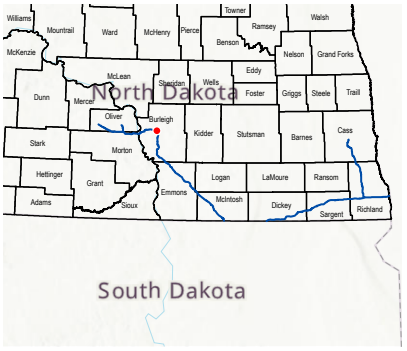

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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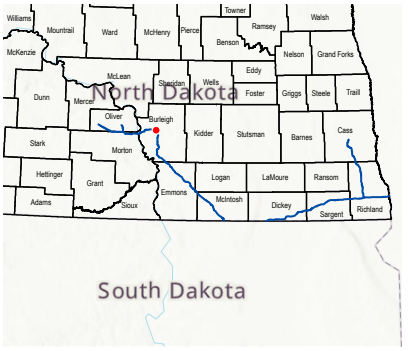

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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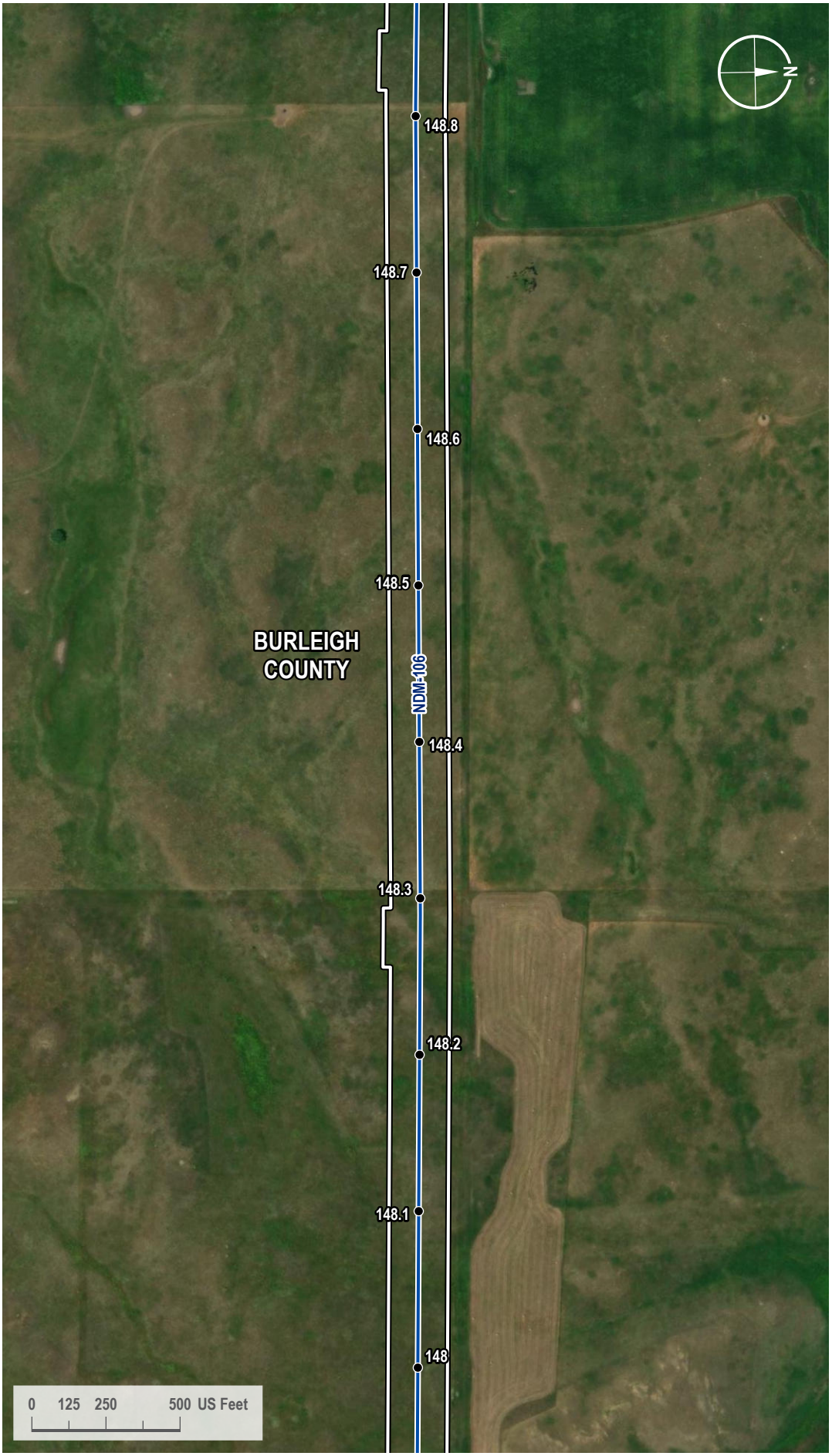

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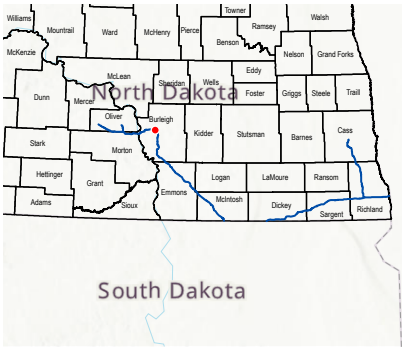

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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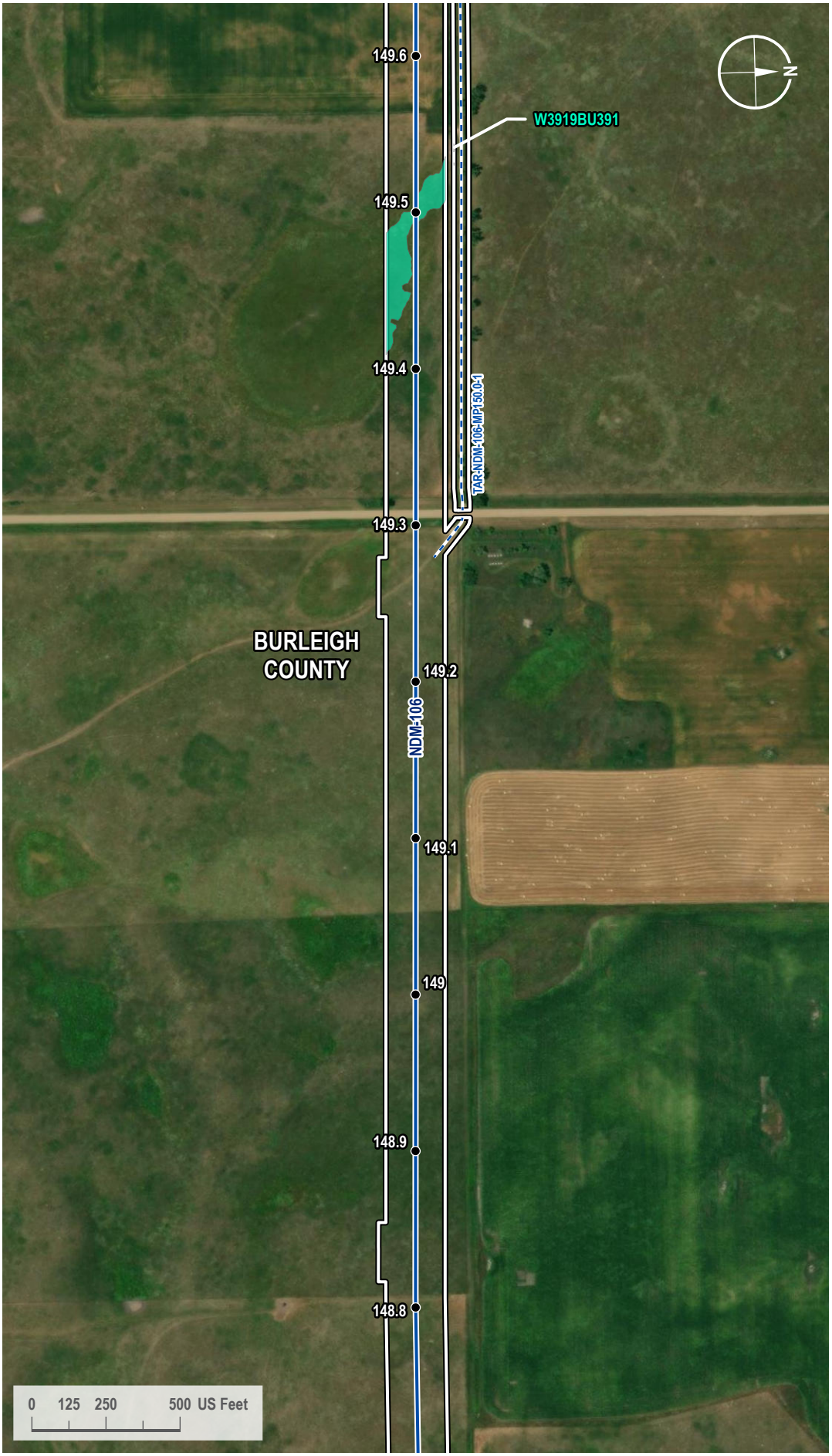

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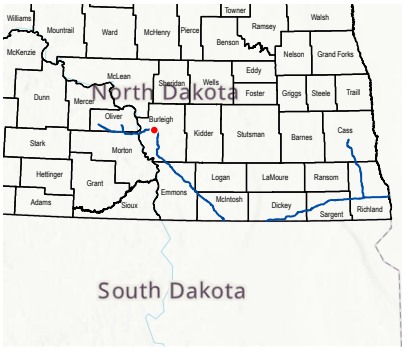

LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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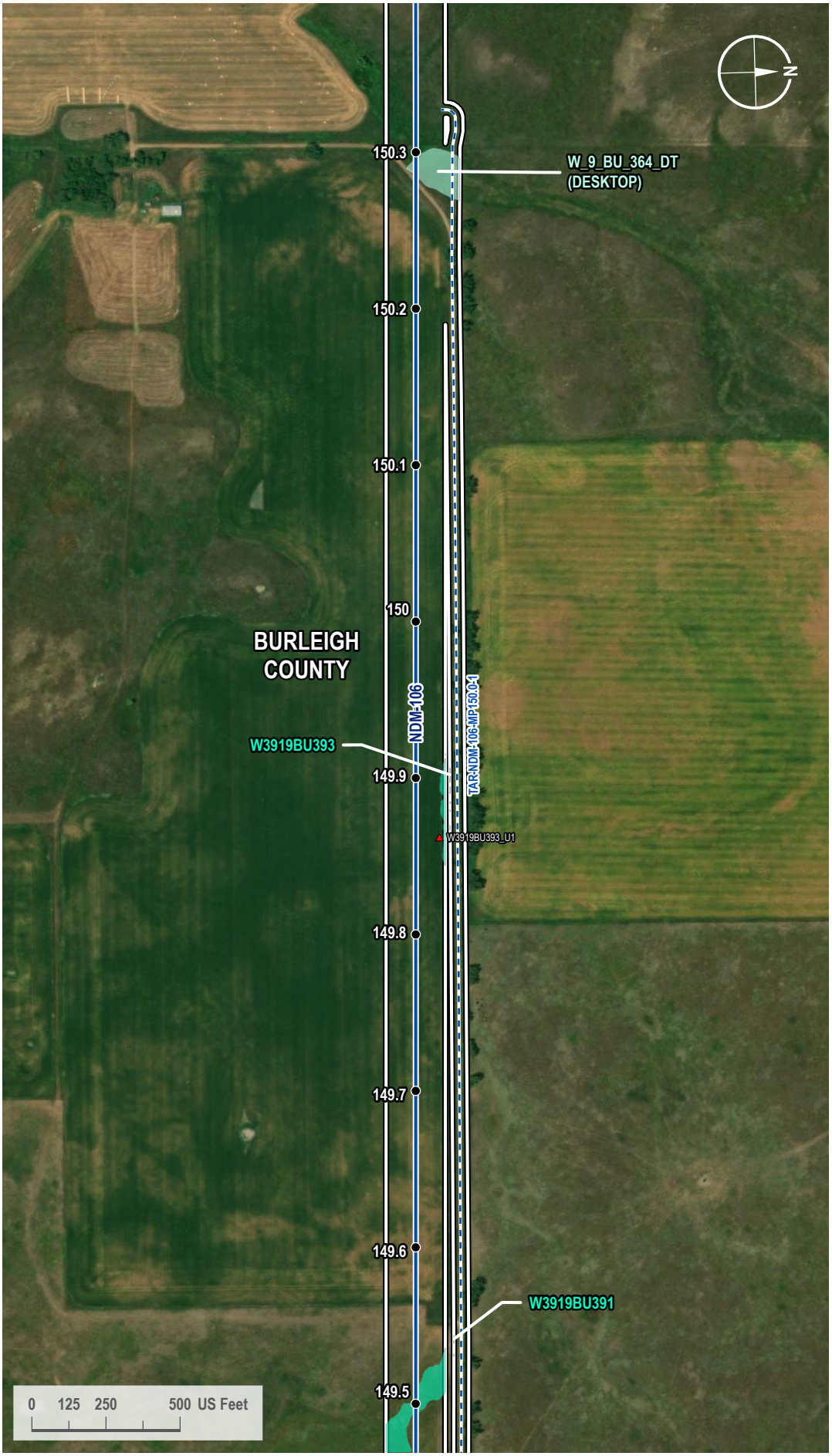

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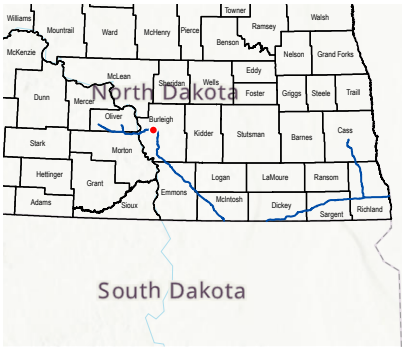

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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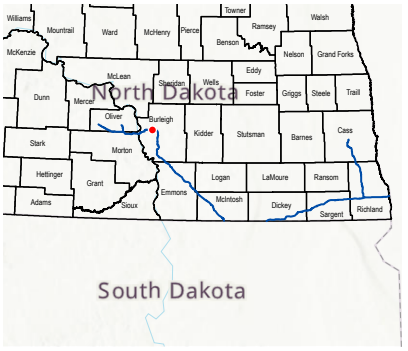

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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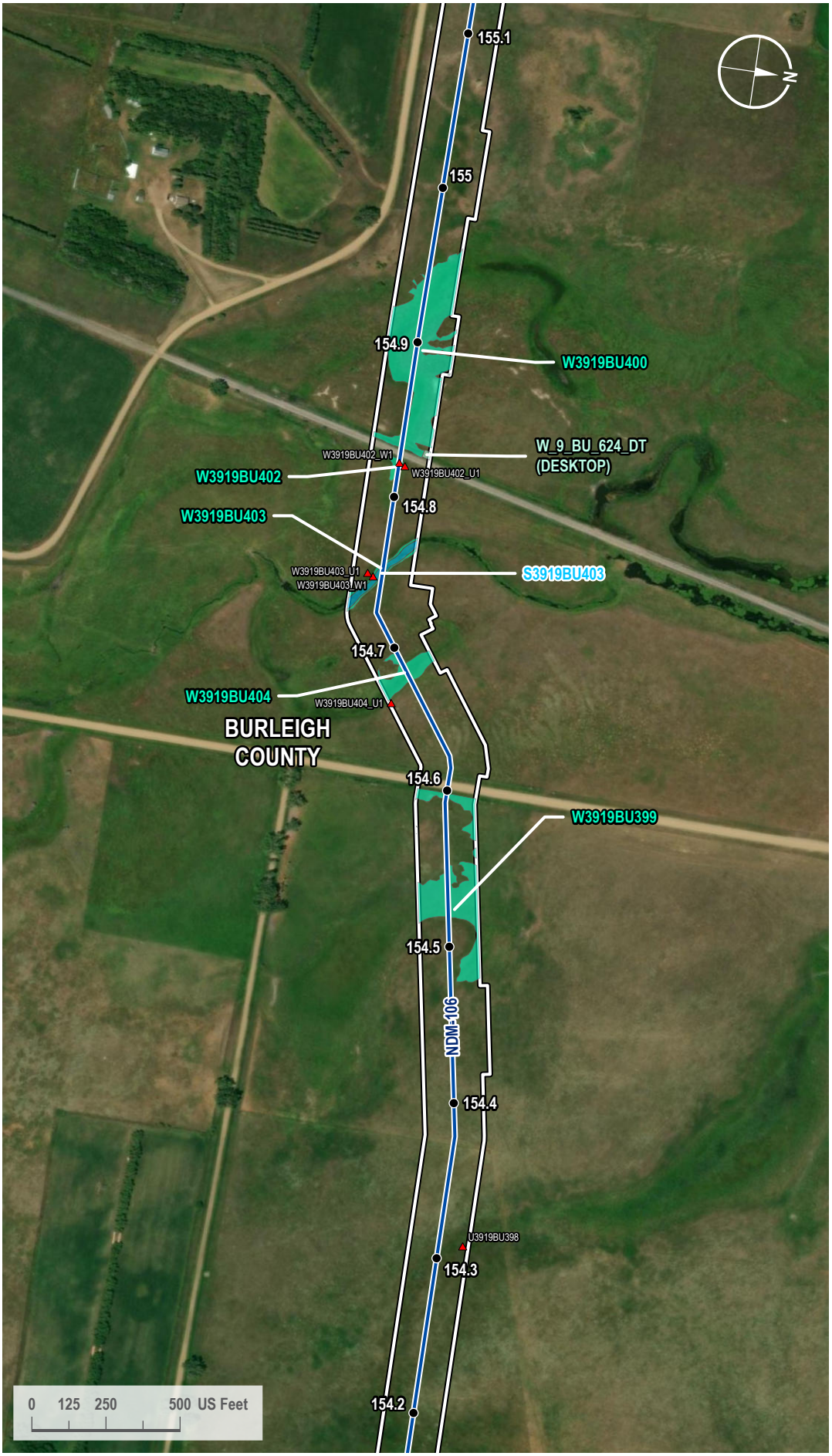

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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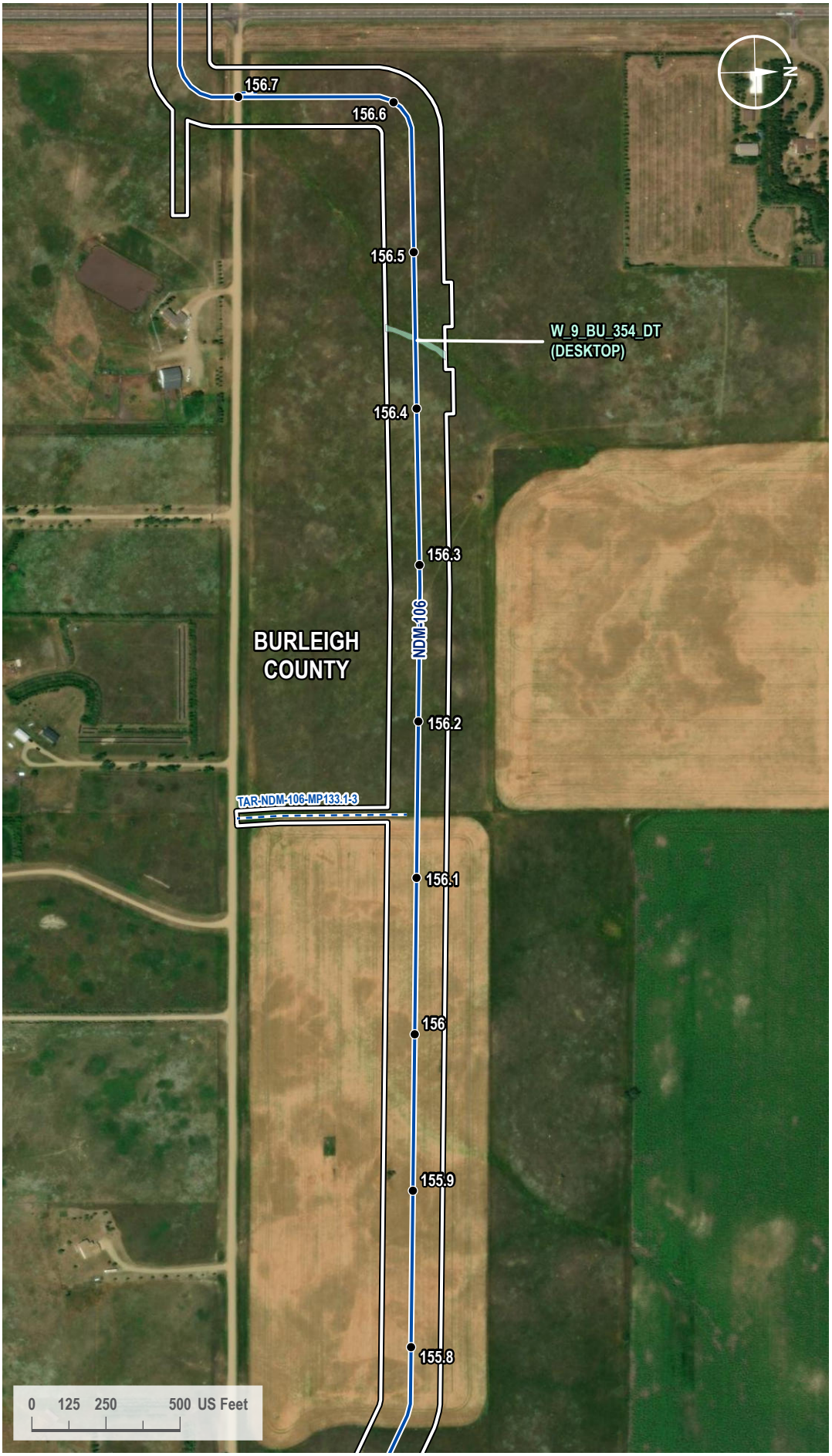

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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LEGEND

- Milepost
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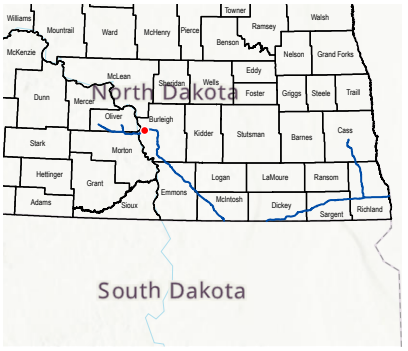

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)

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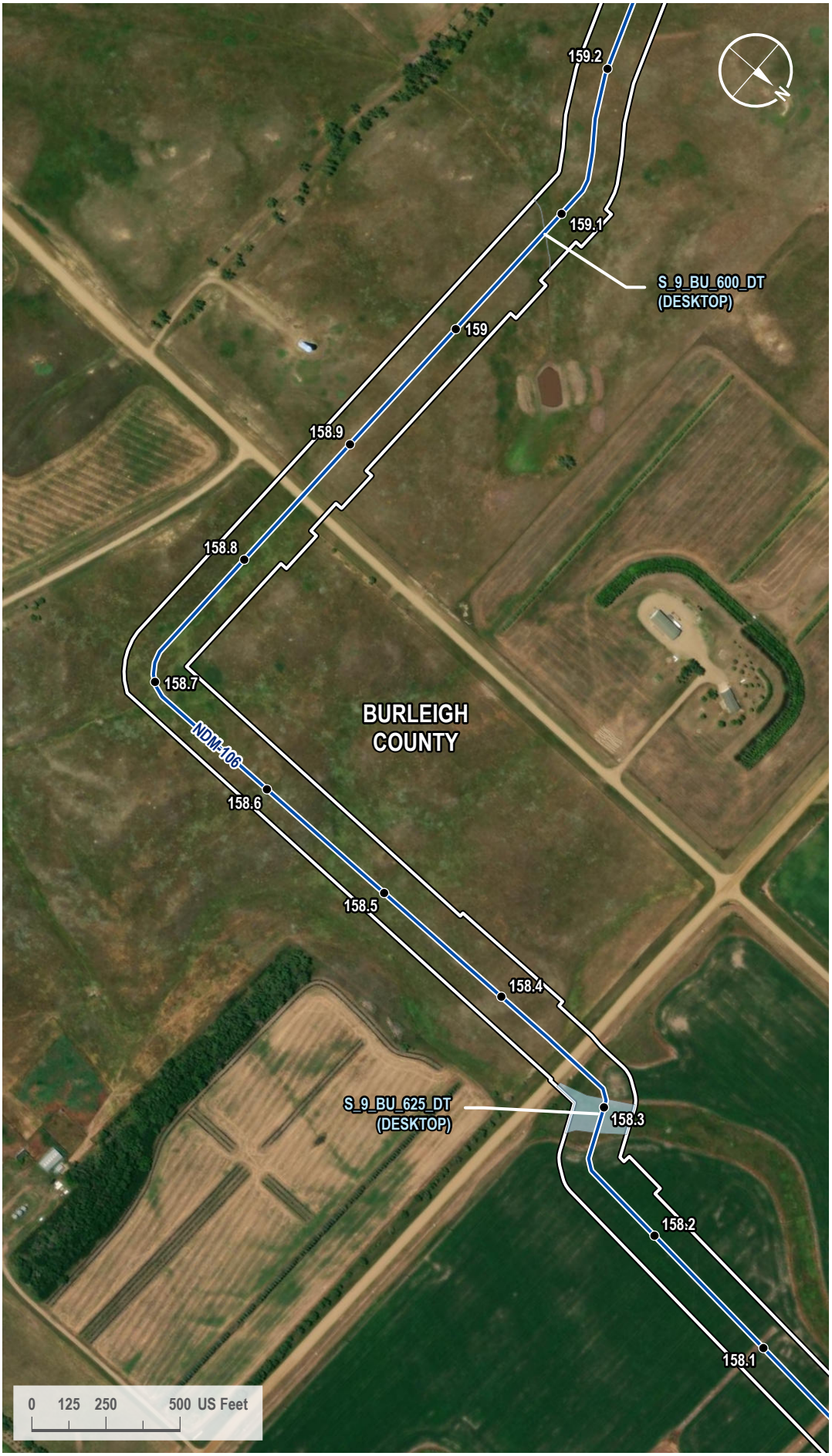

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LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
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VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)

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Figure Title: Aerial Map

Figure Number: Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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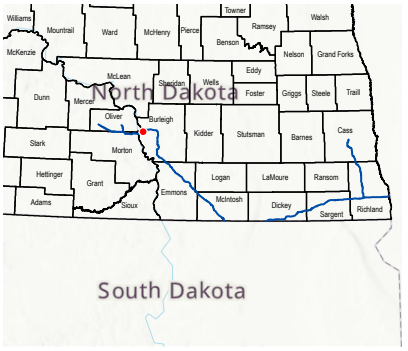
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)

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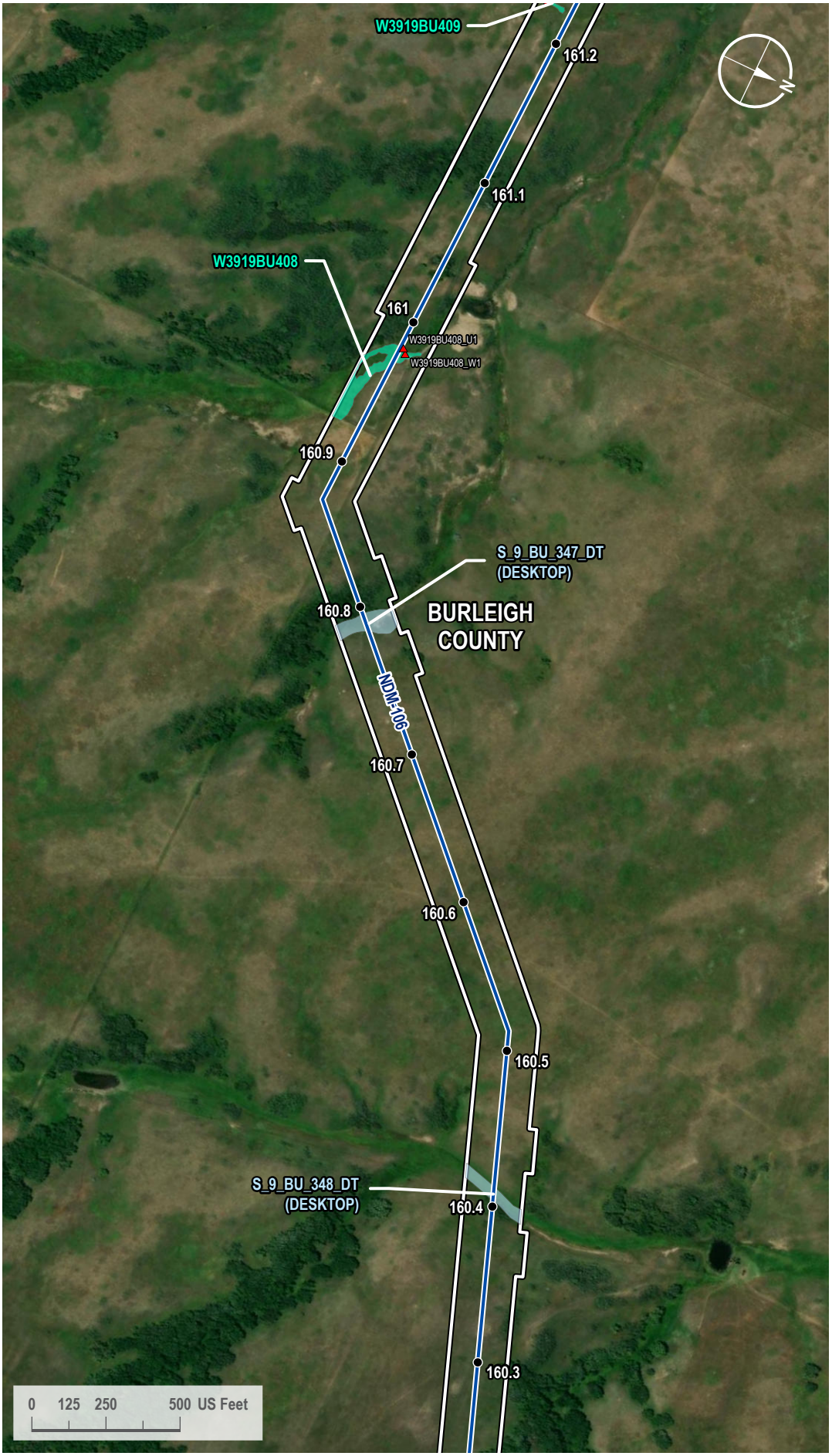

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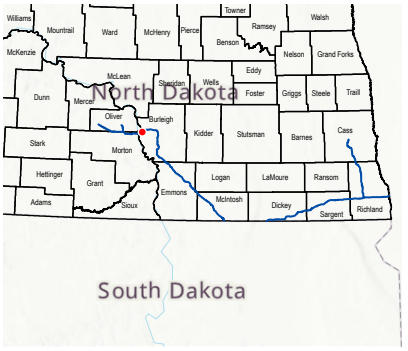

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Surveyed)

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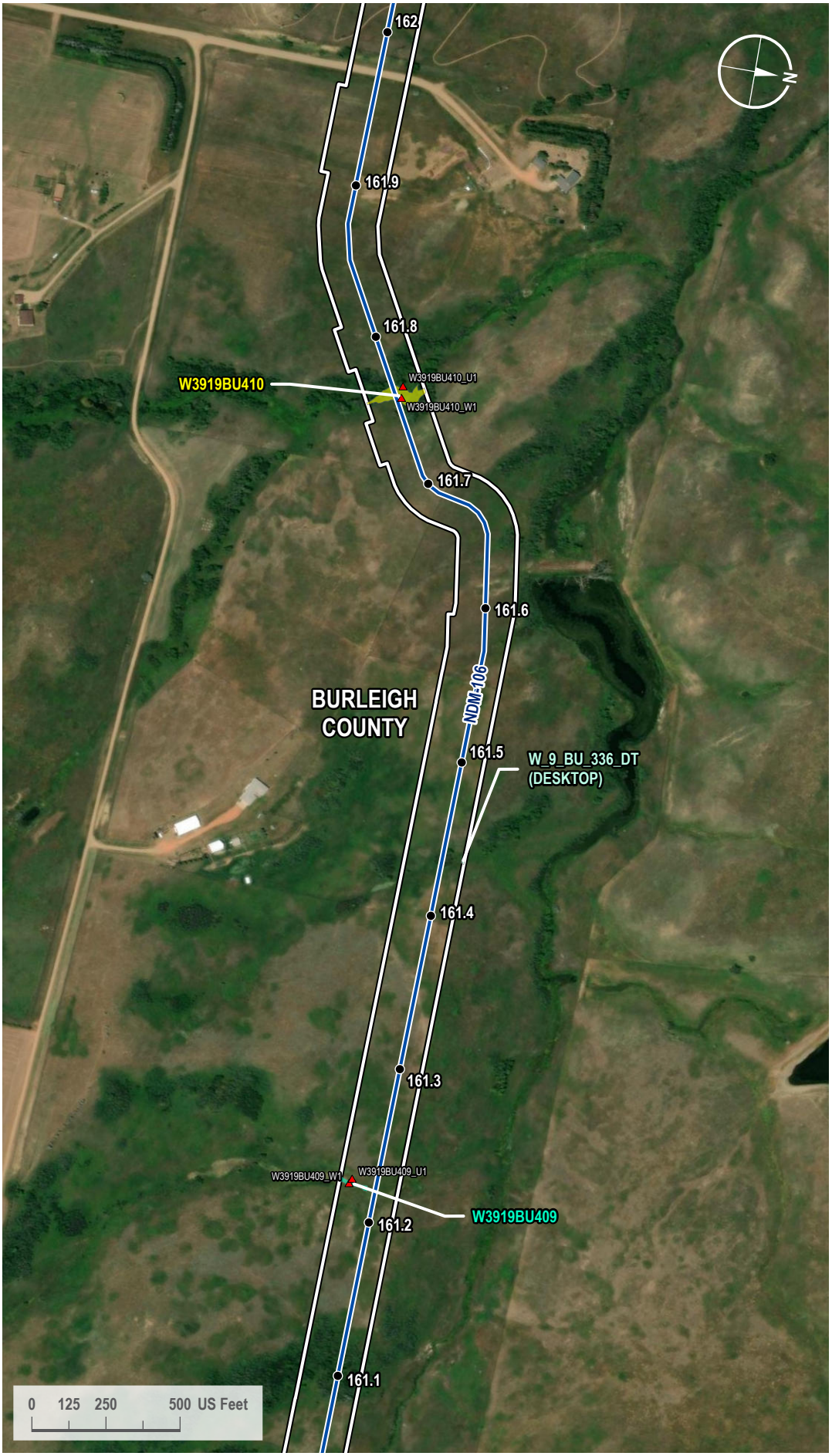

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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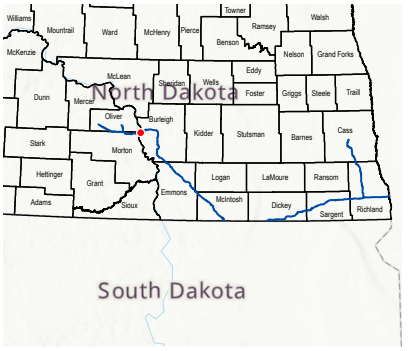

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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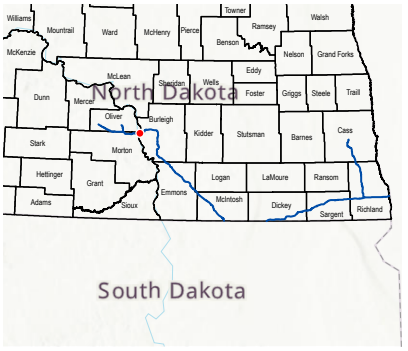

LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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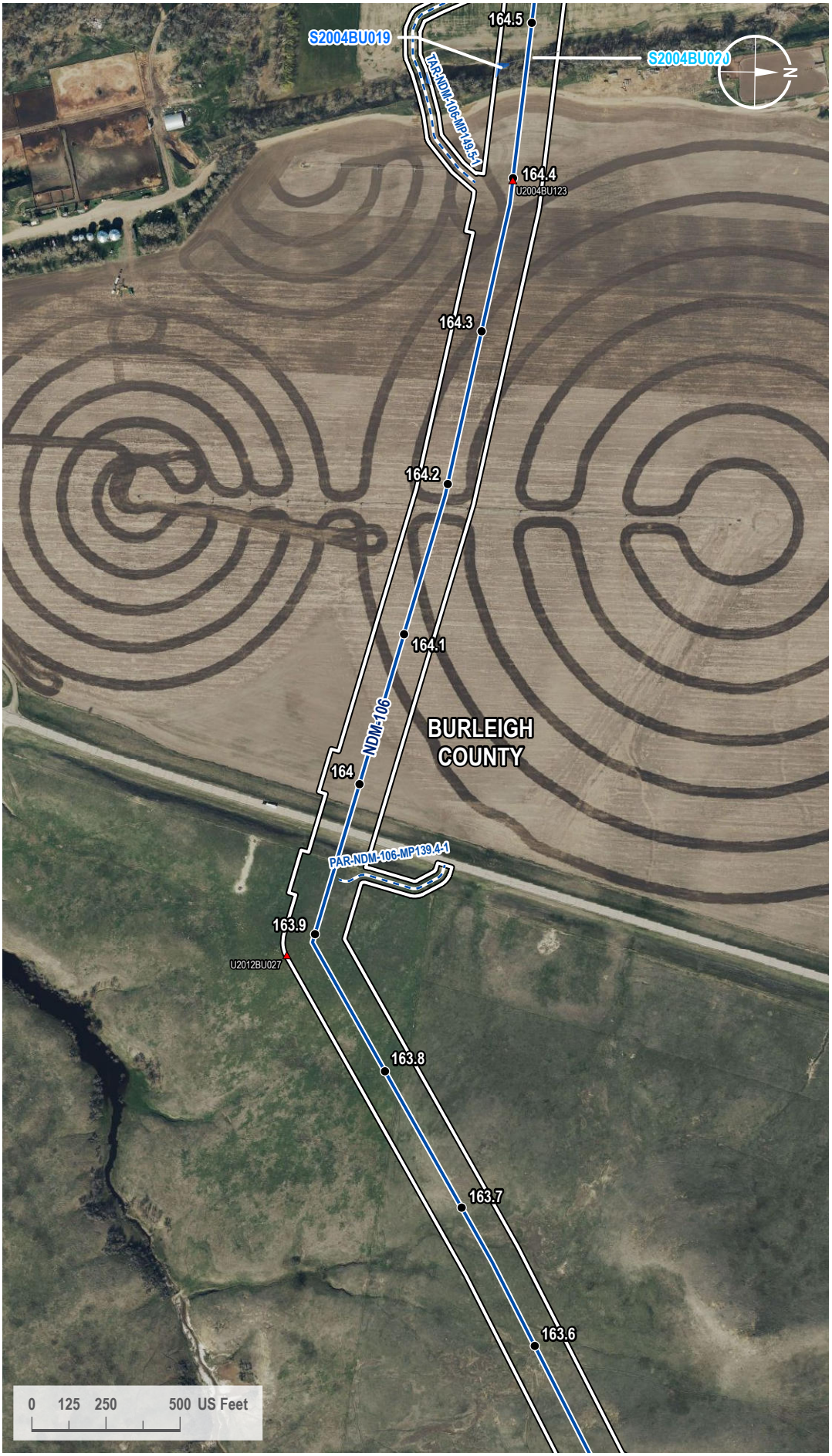

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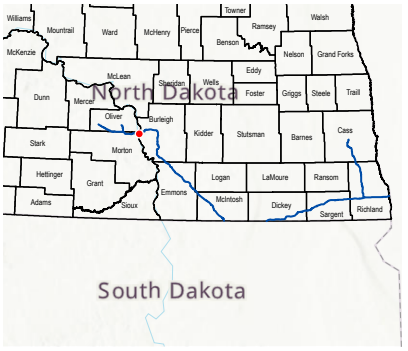

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)

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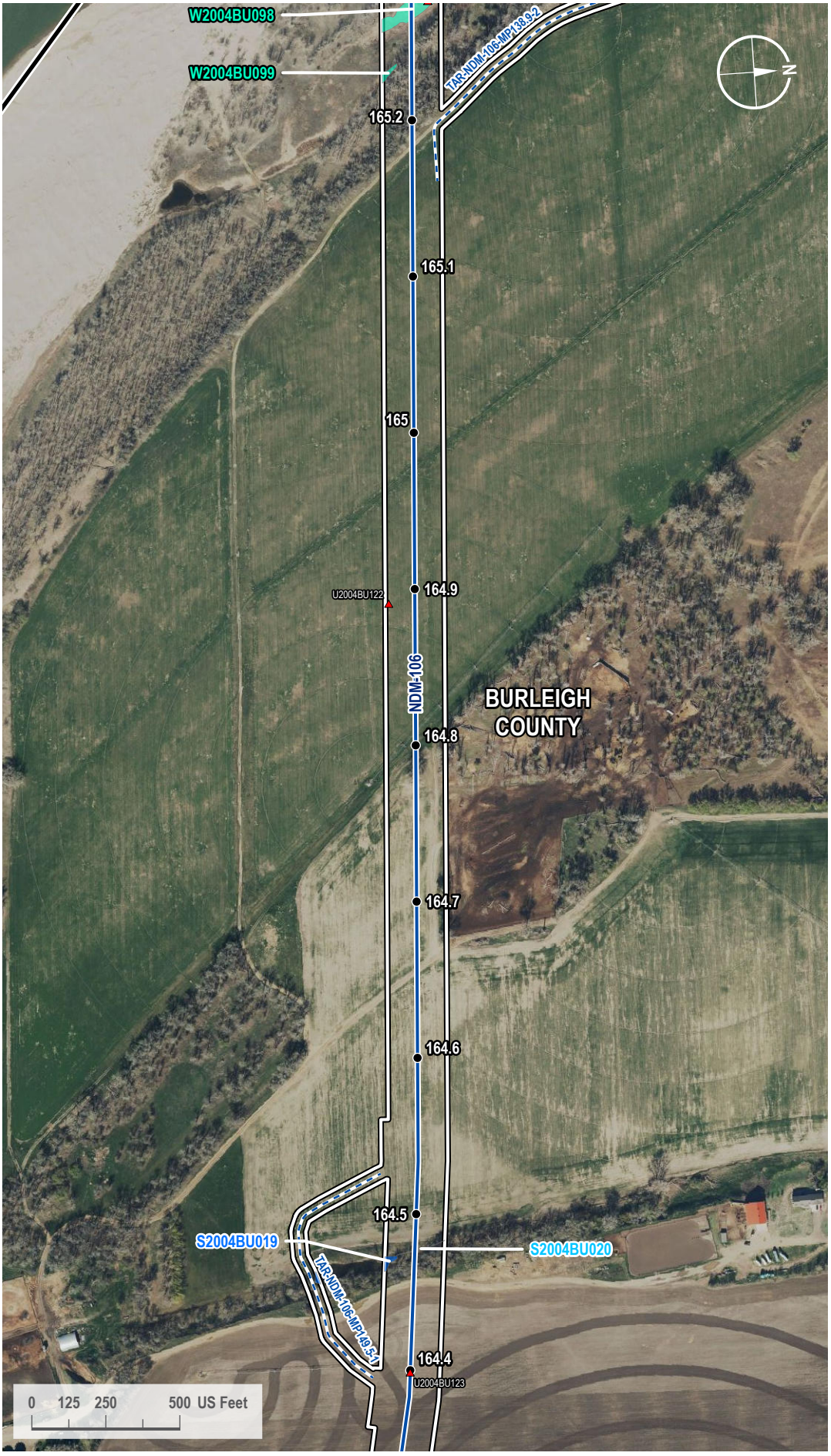

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- County Line
- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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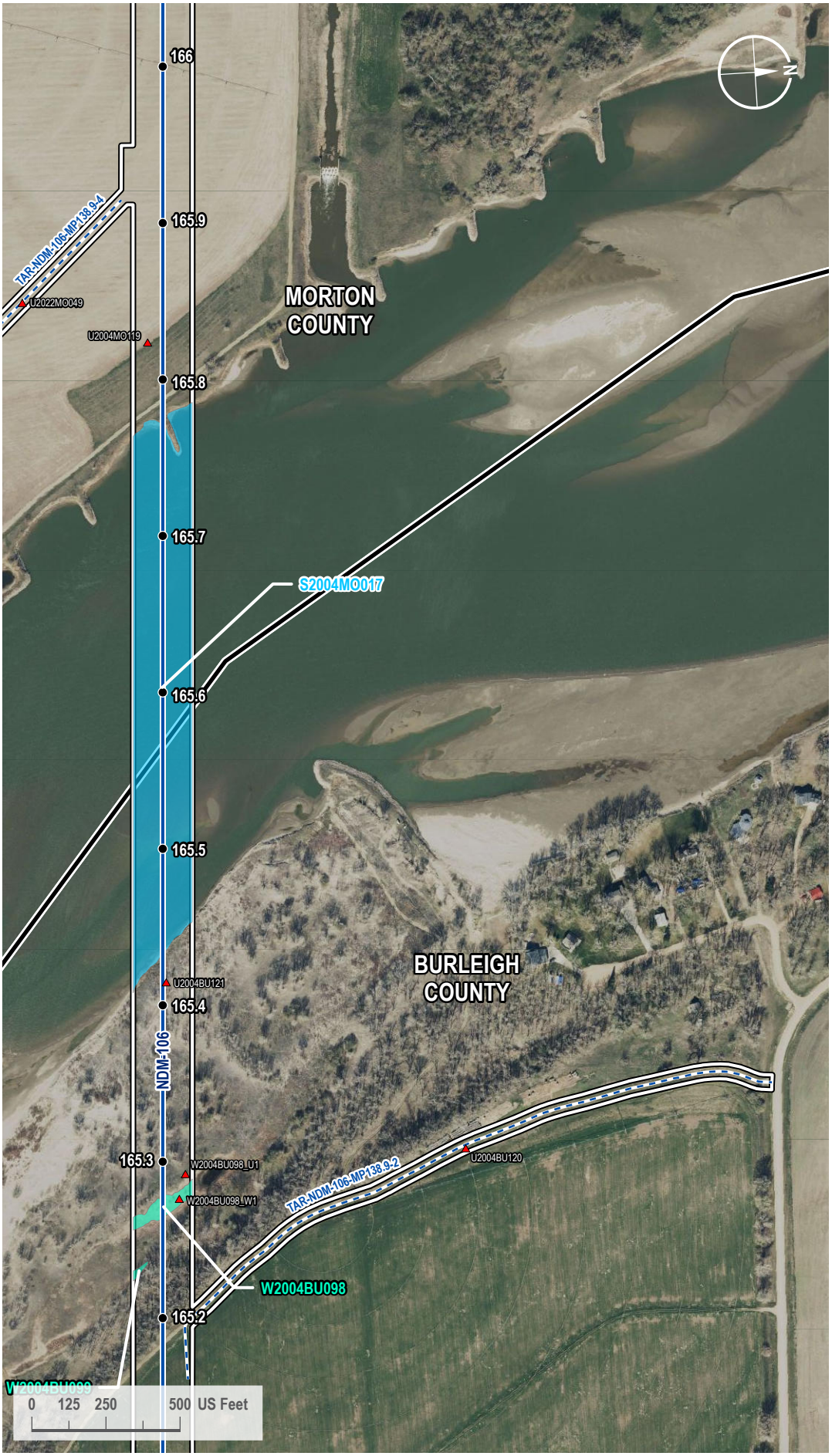

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- County Line
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Access Road
- County Line
- 200-foot Siting Corridor

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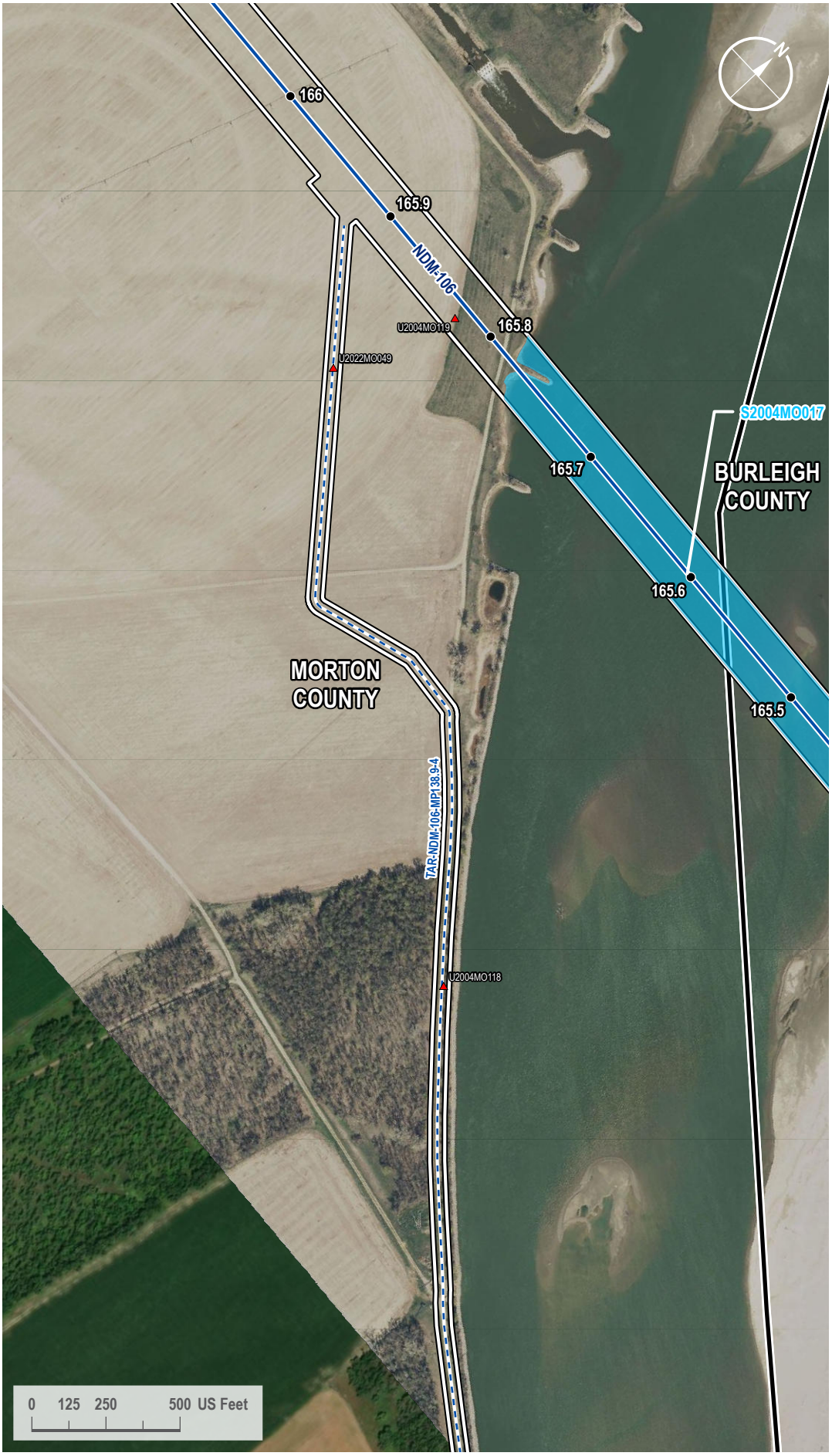

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
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- 200-foot Siting Corridor
- Stream (Surveyed)

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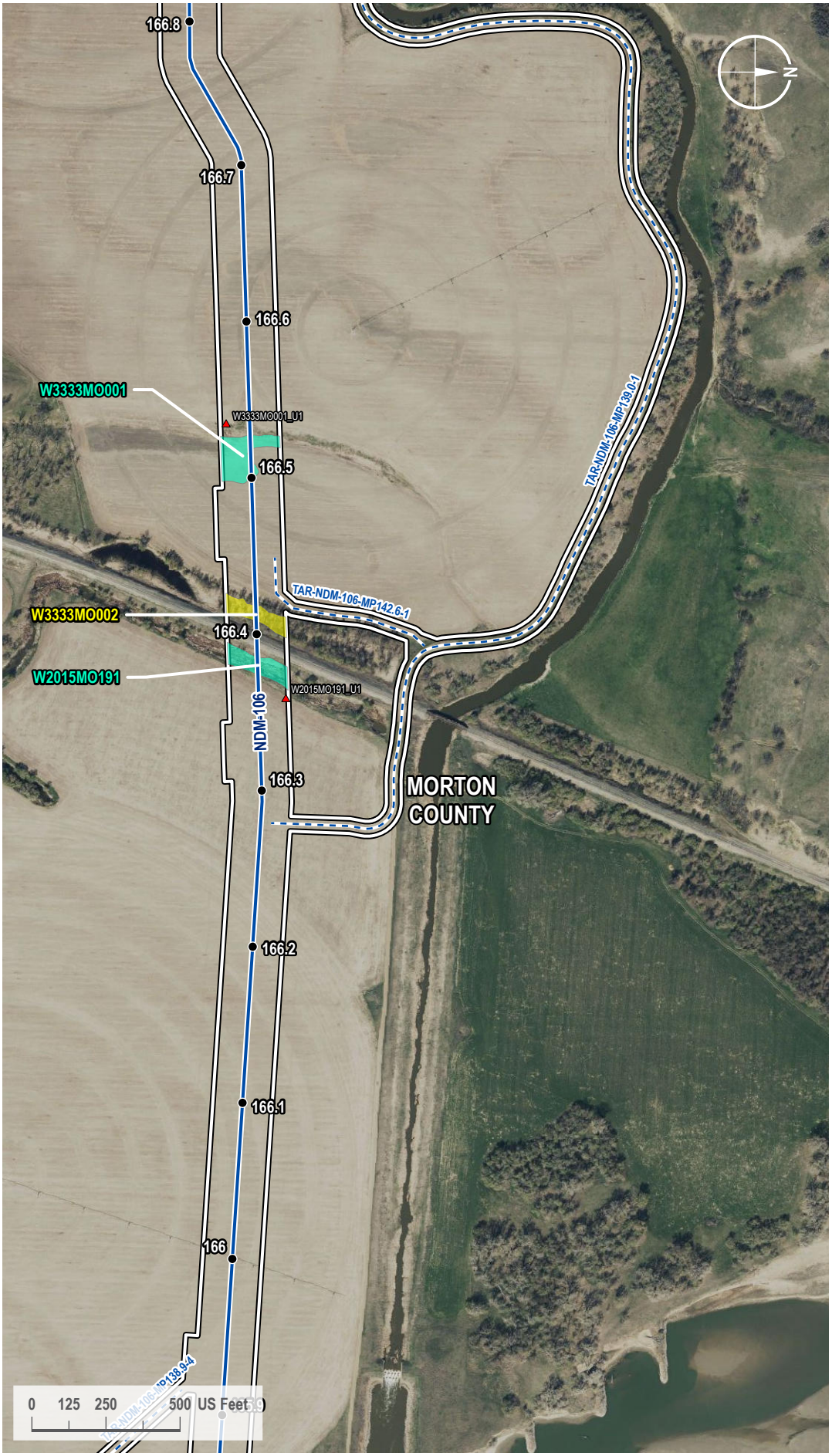

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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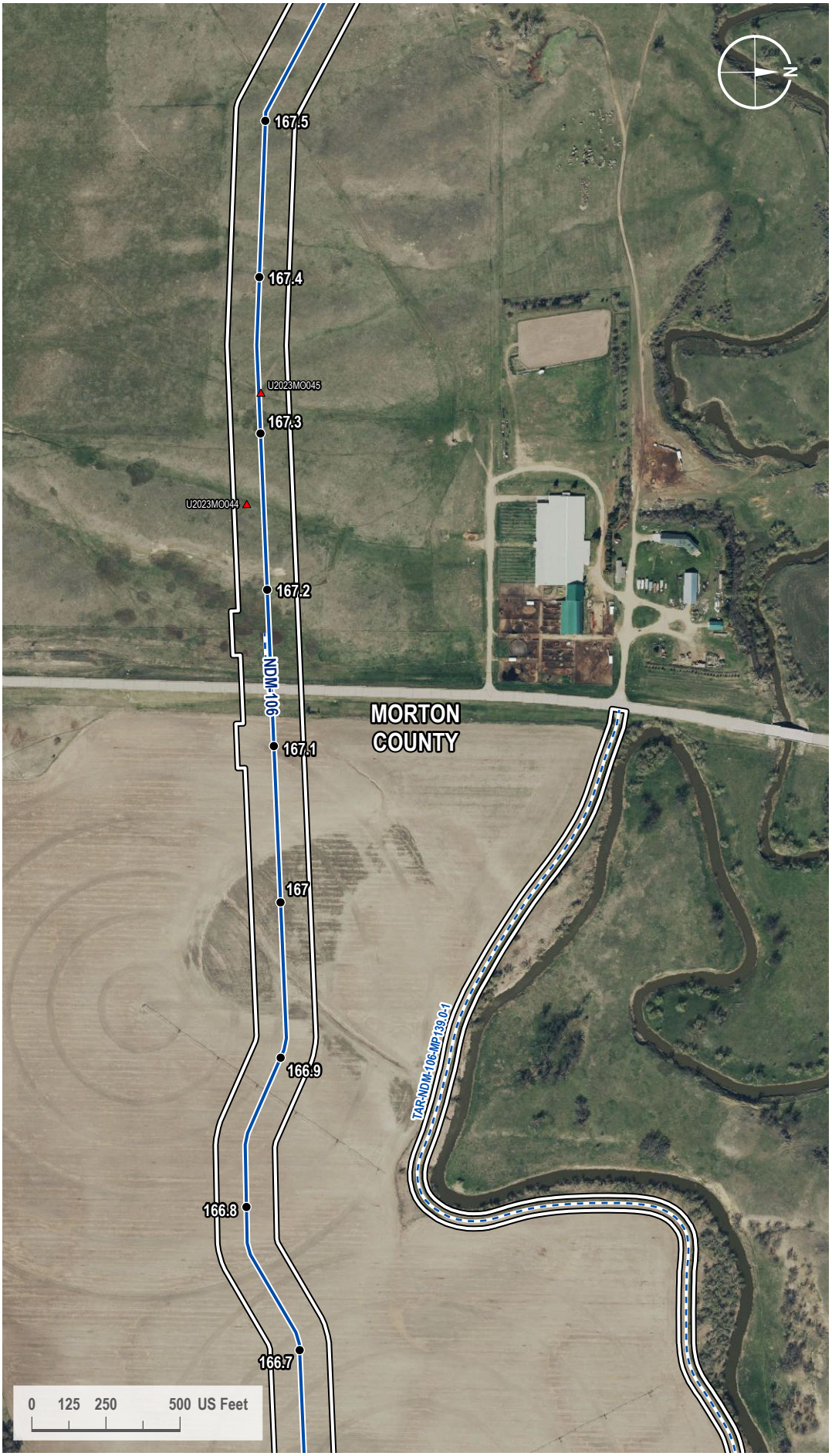

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
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- 200-foot Siting Corridor

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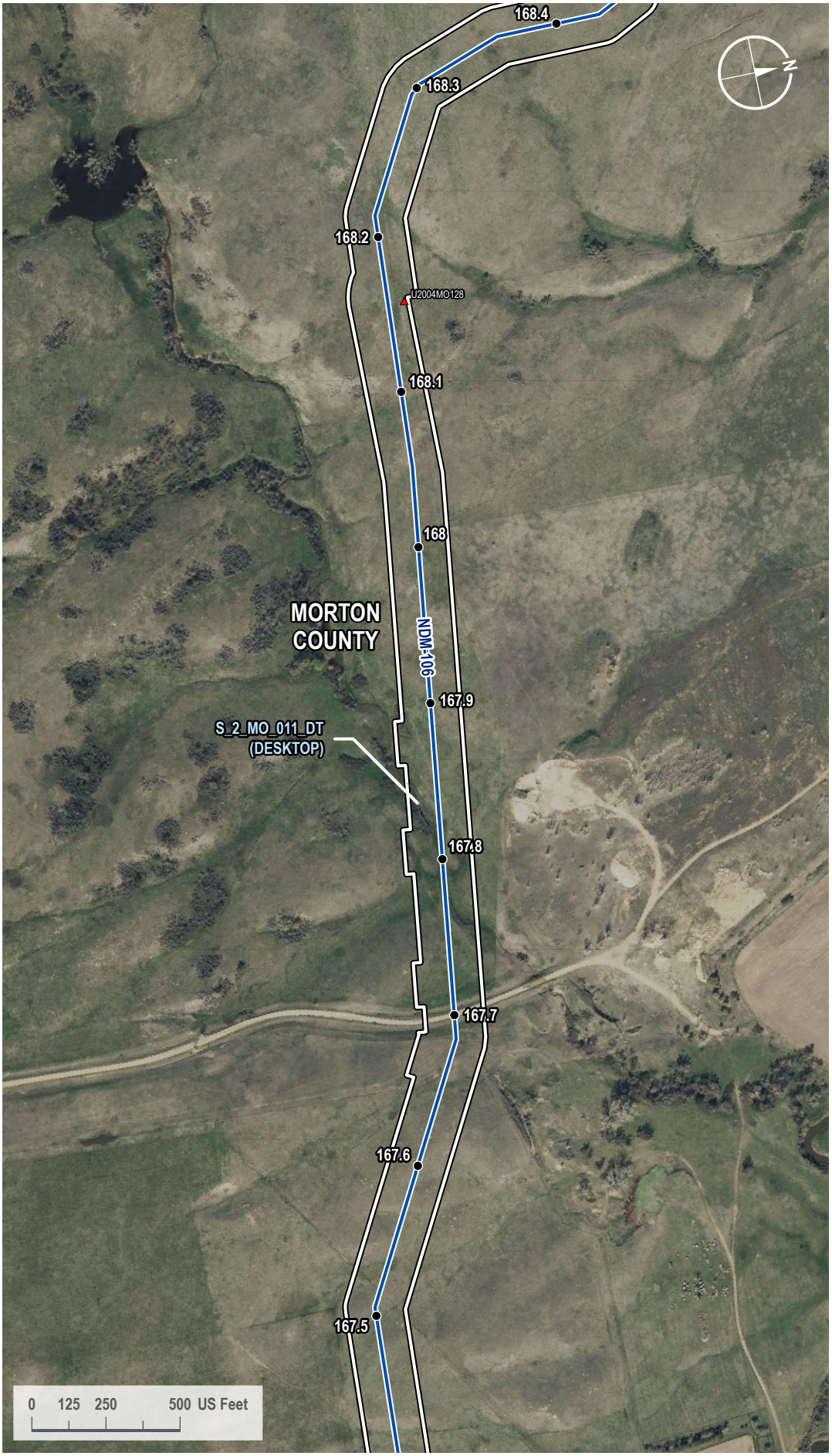

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)

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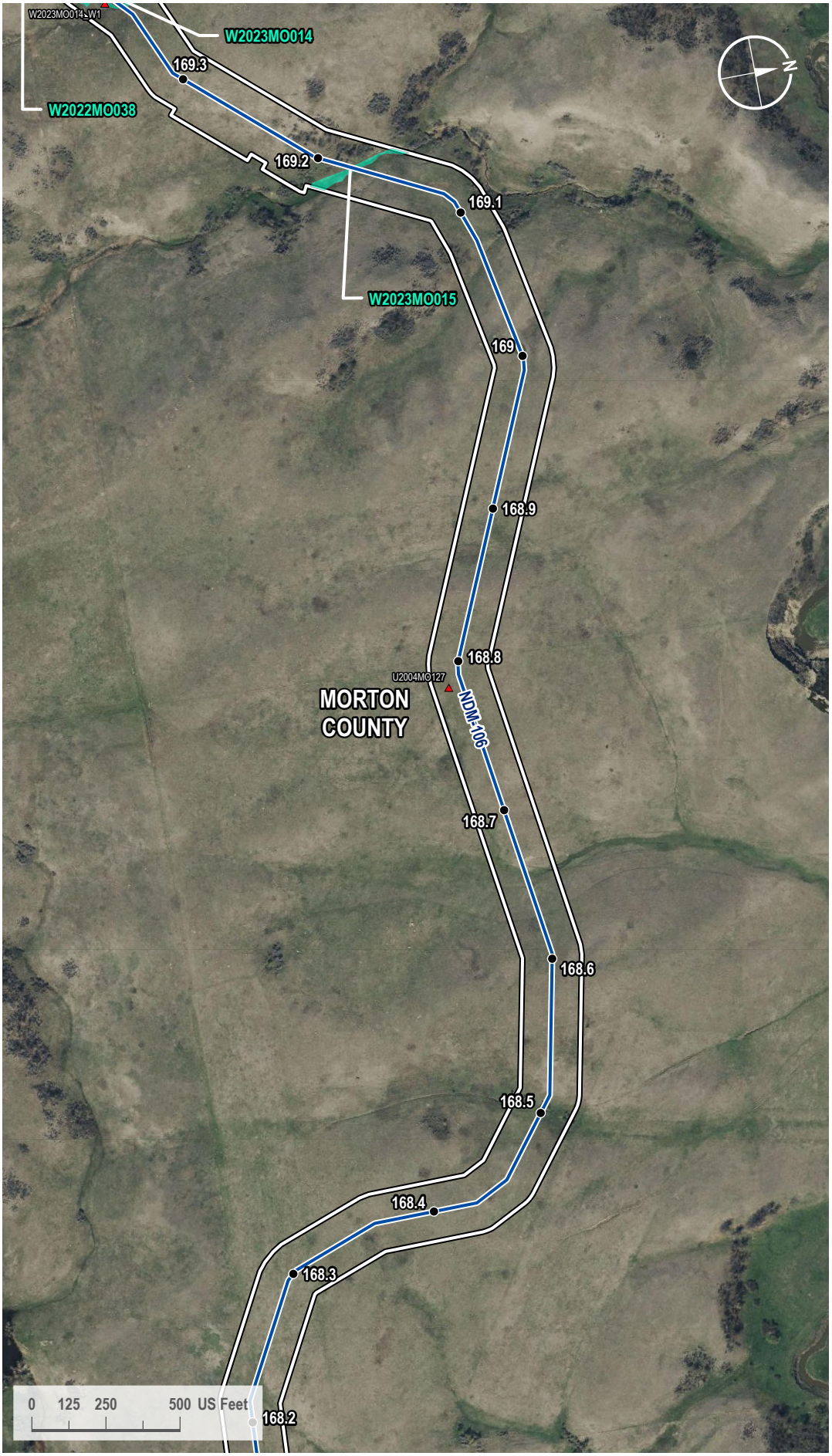

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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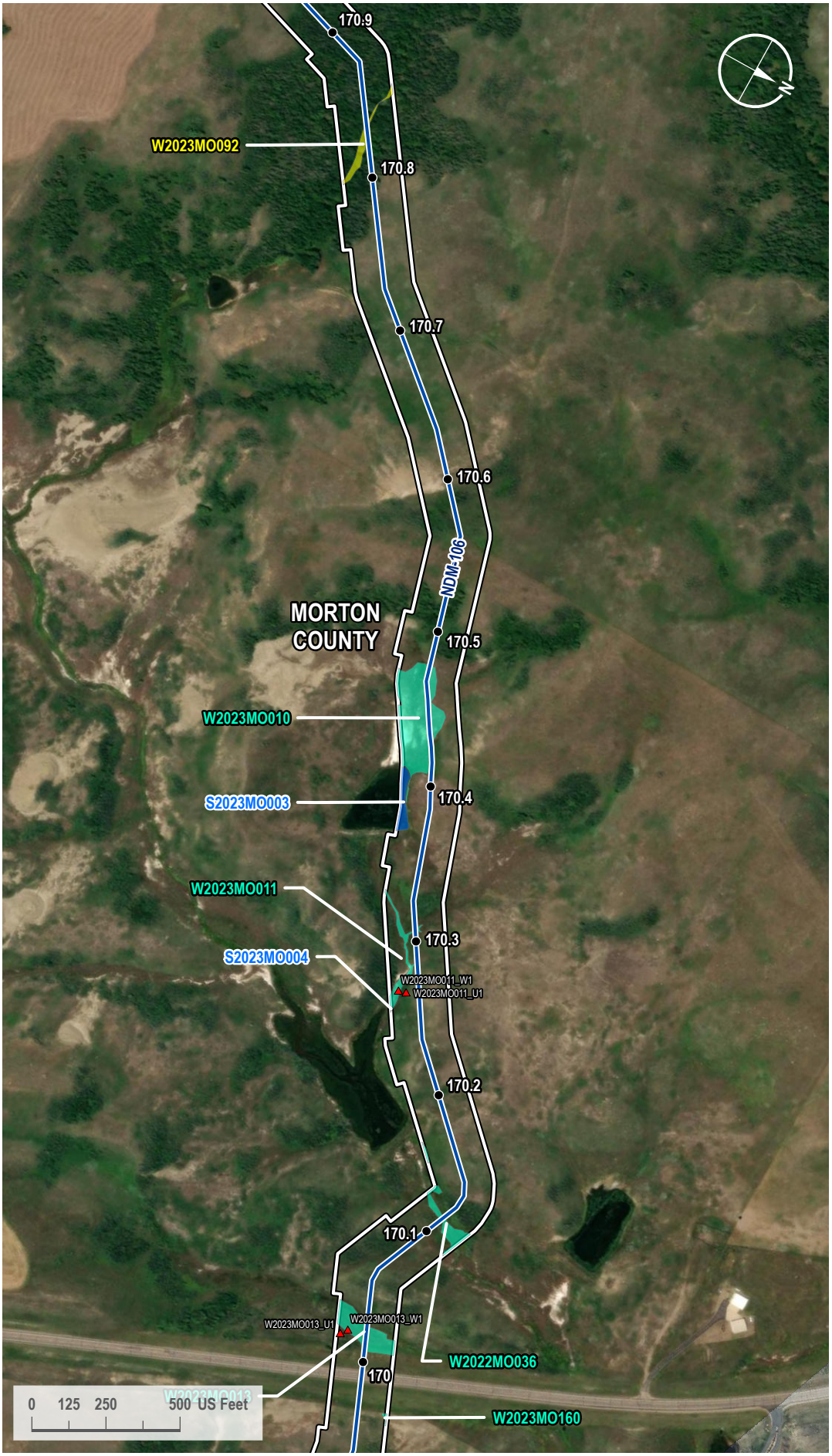

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
- Palustrine Forested Wetland (Surveyed)

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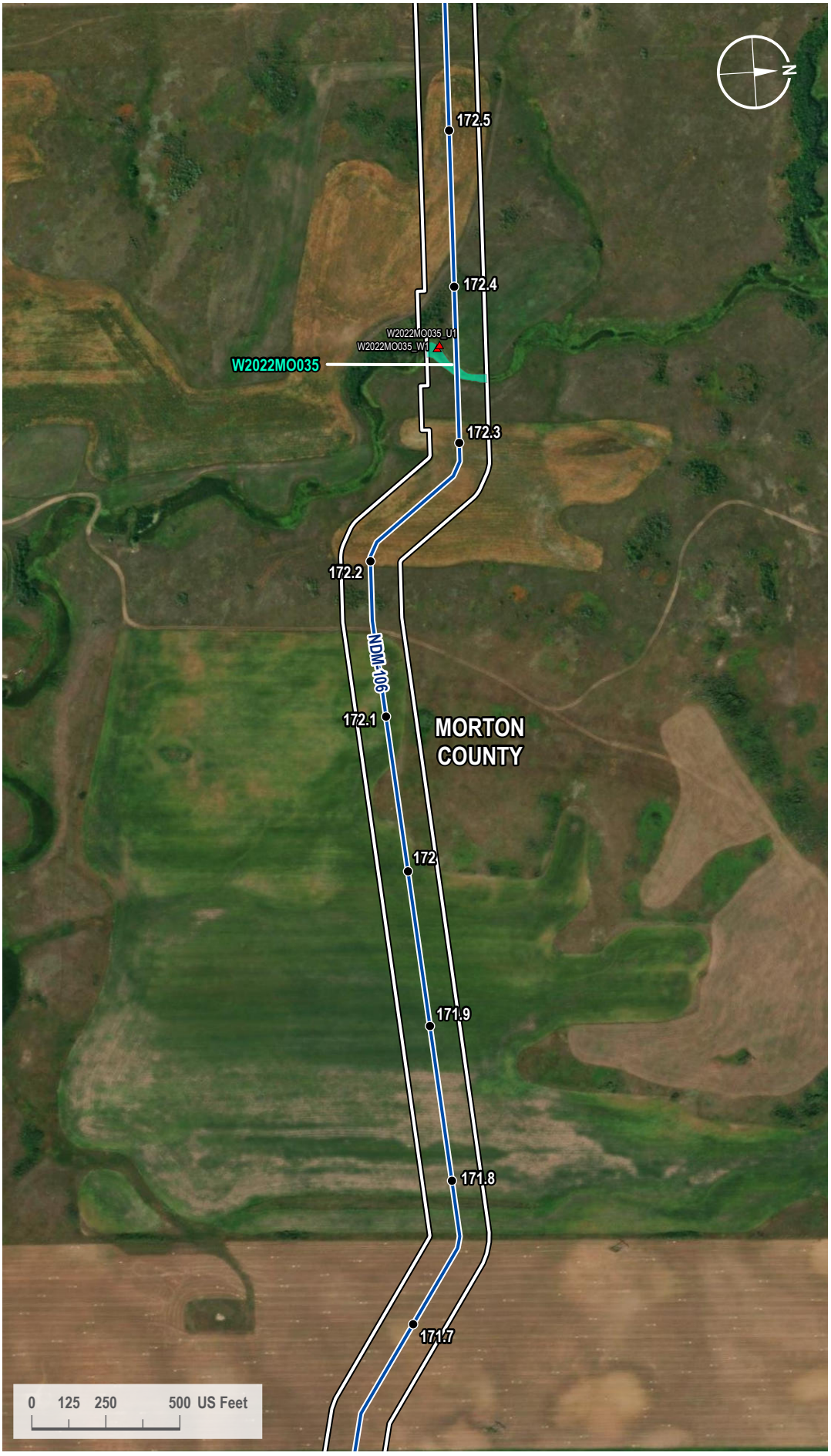

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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Figure Number:
Appendix A-2

Scale:	Projection:
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Sheet:	Drawing Number:
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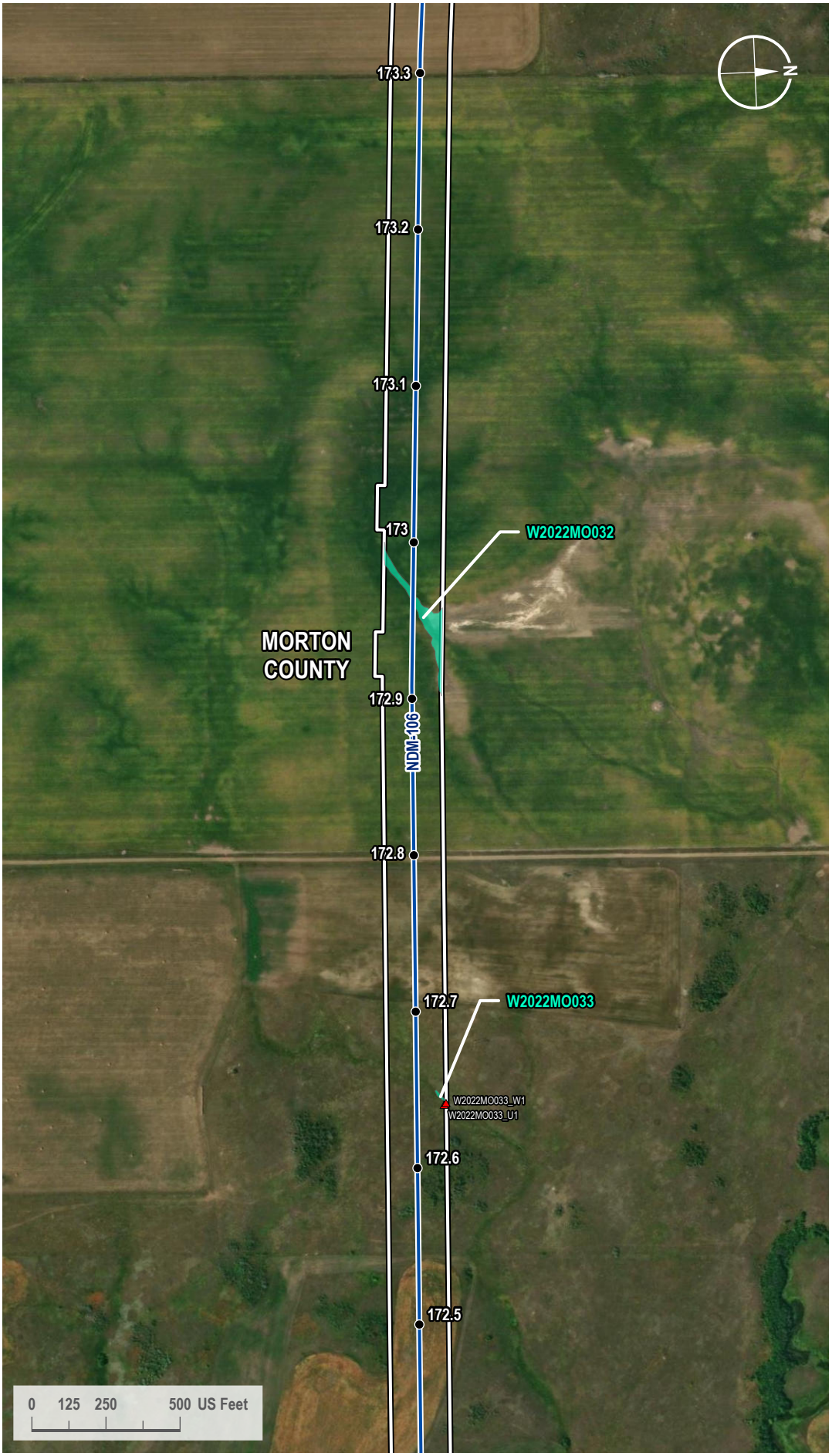

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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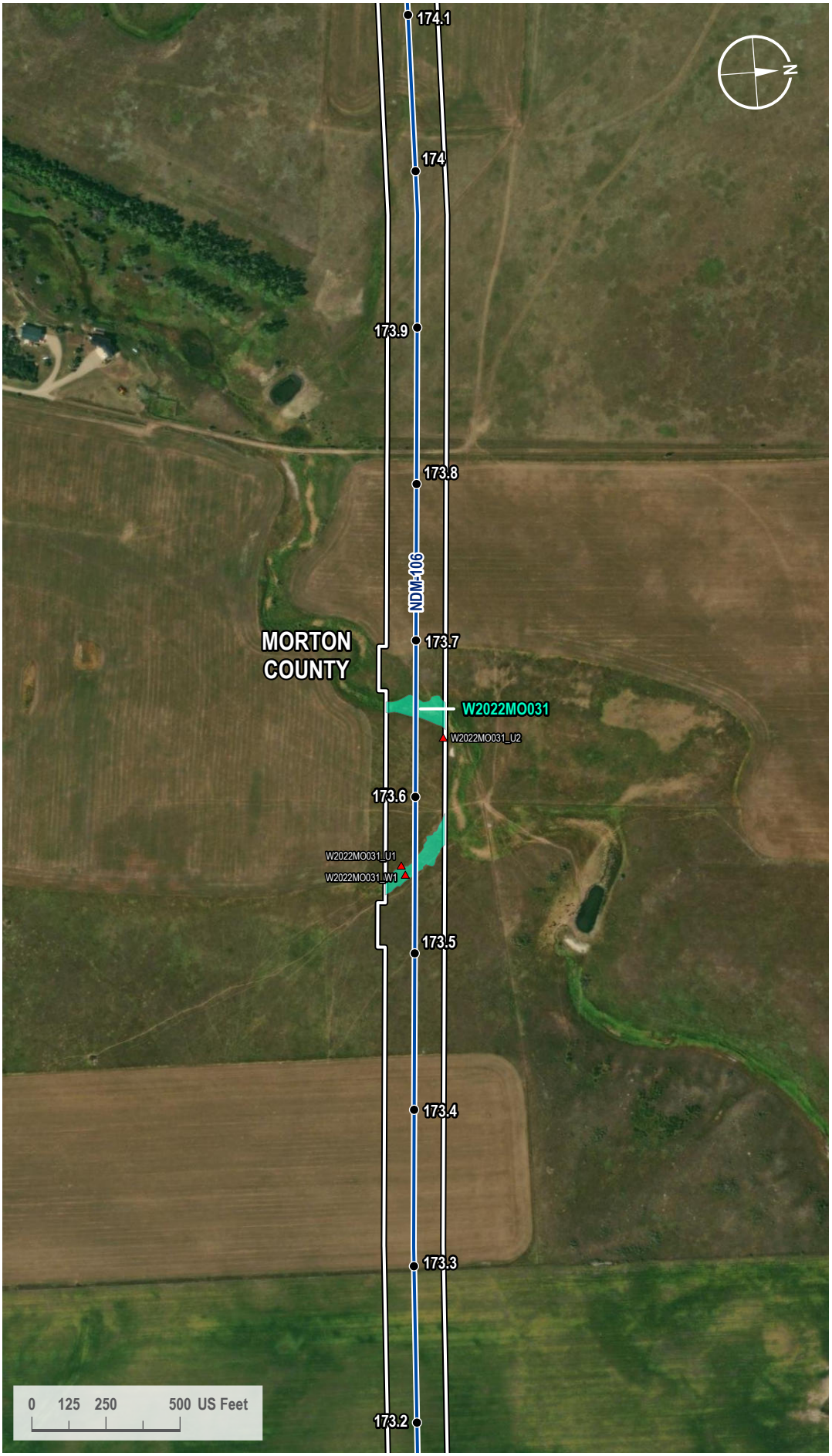

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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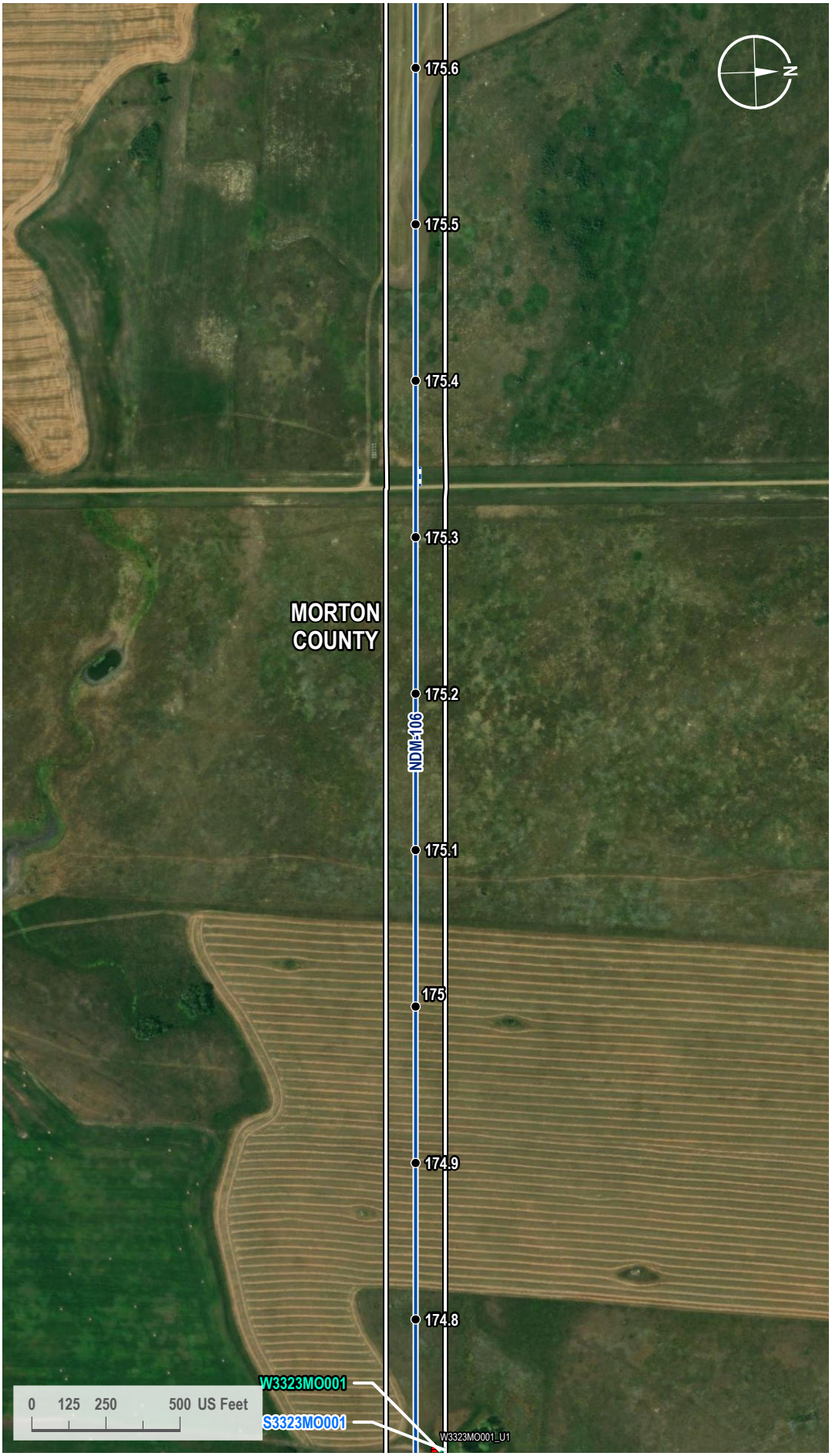

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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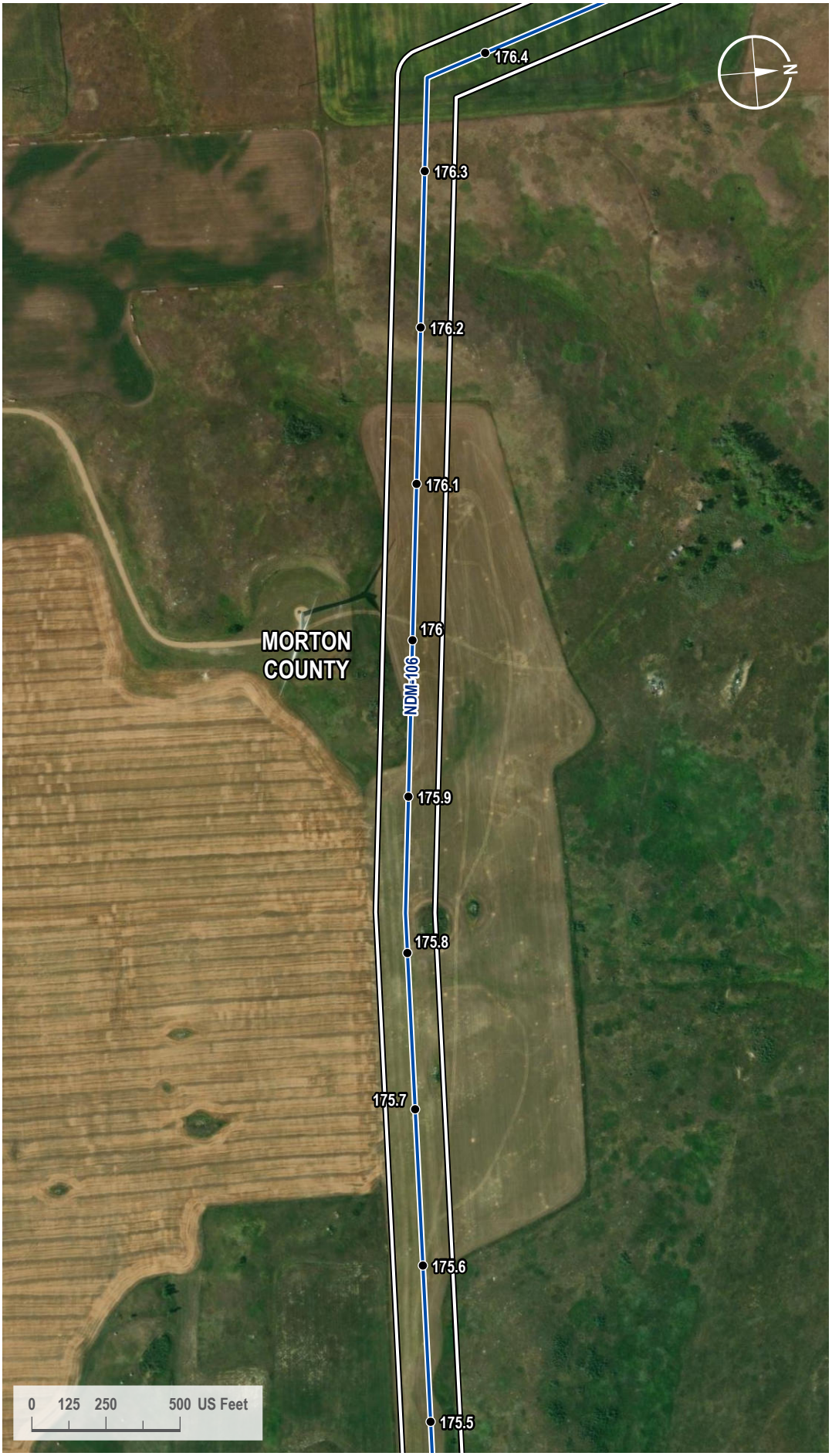

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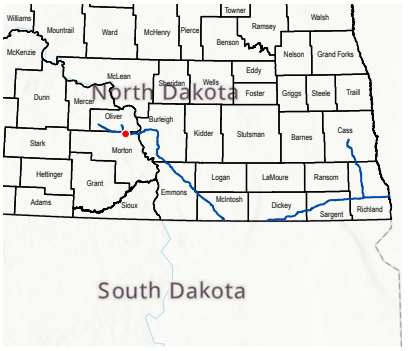

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor

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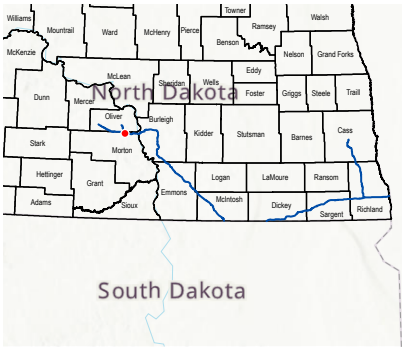

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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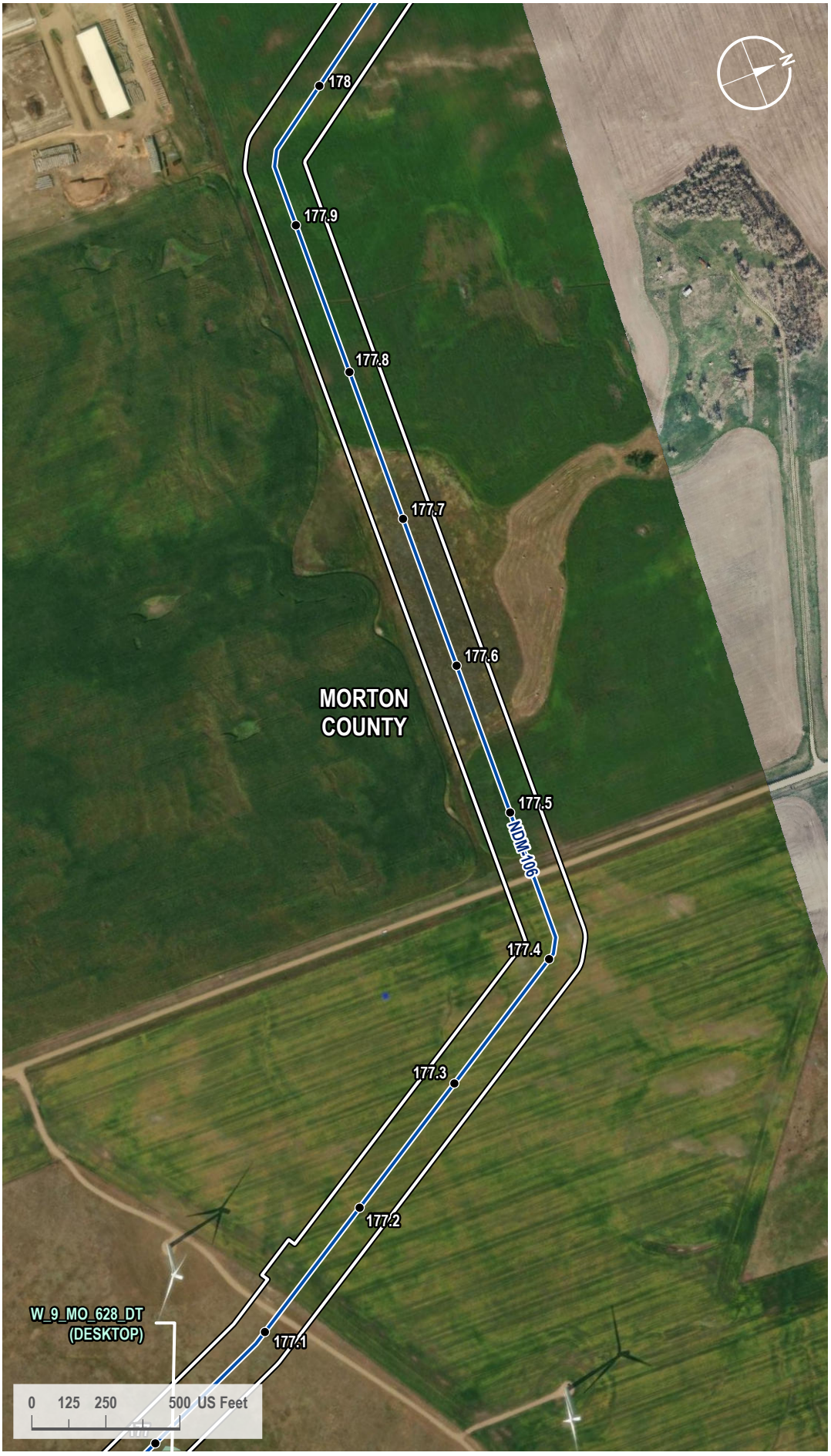

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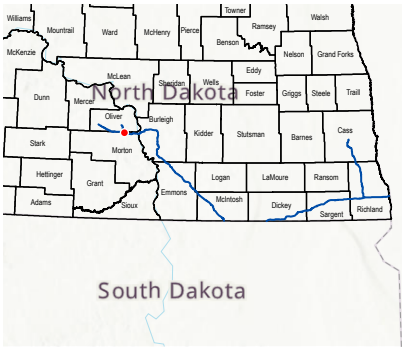

LEGEND

- Milepost
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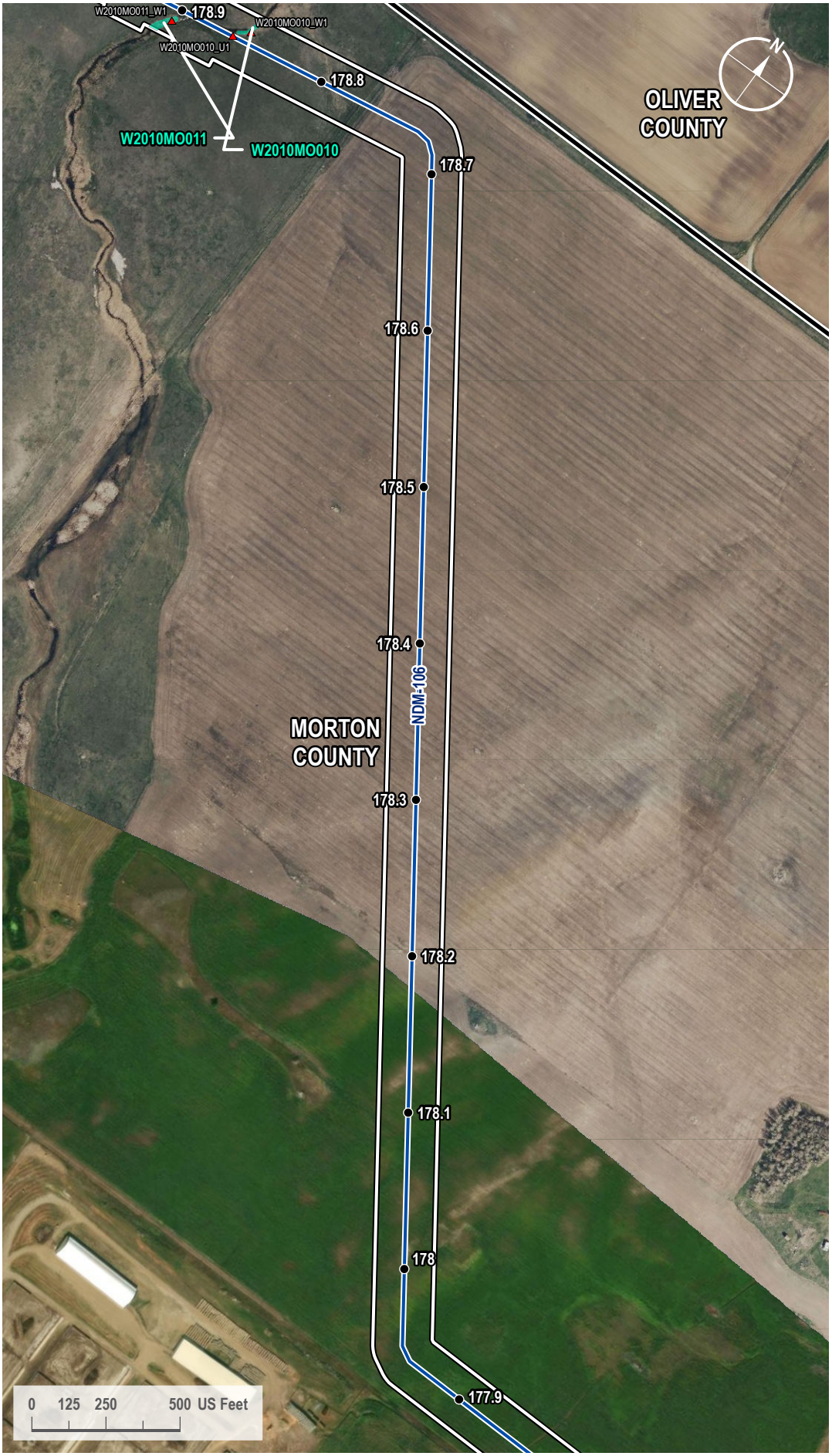

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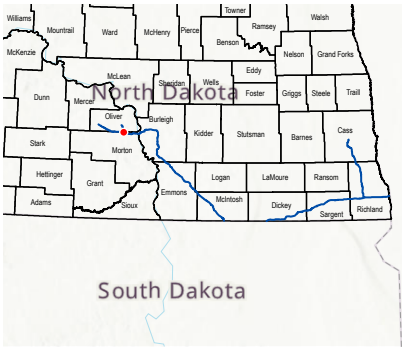

LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
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- Palustrine Emergent Wetland (Surveyed)

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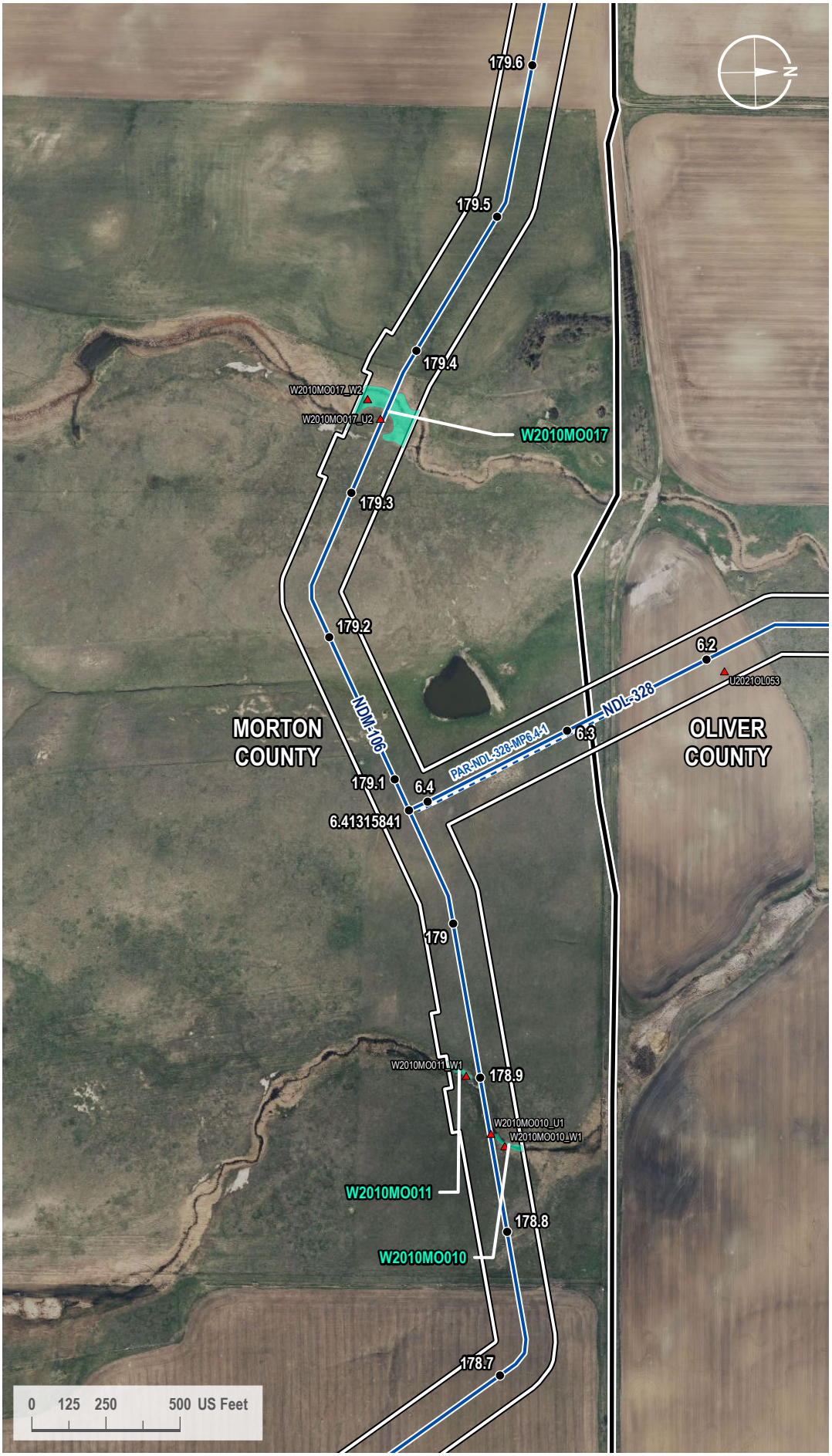

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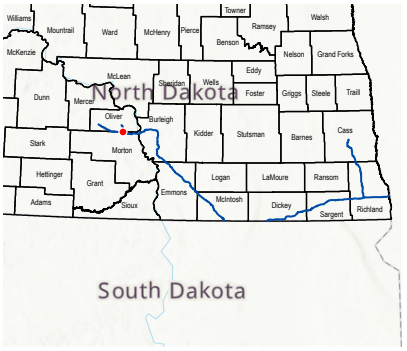

LEGEND

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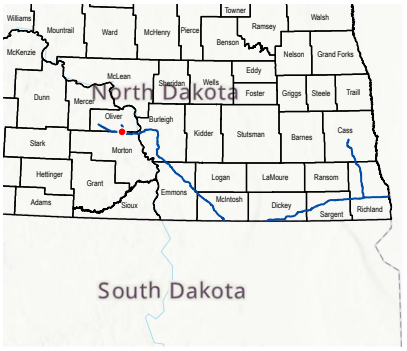

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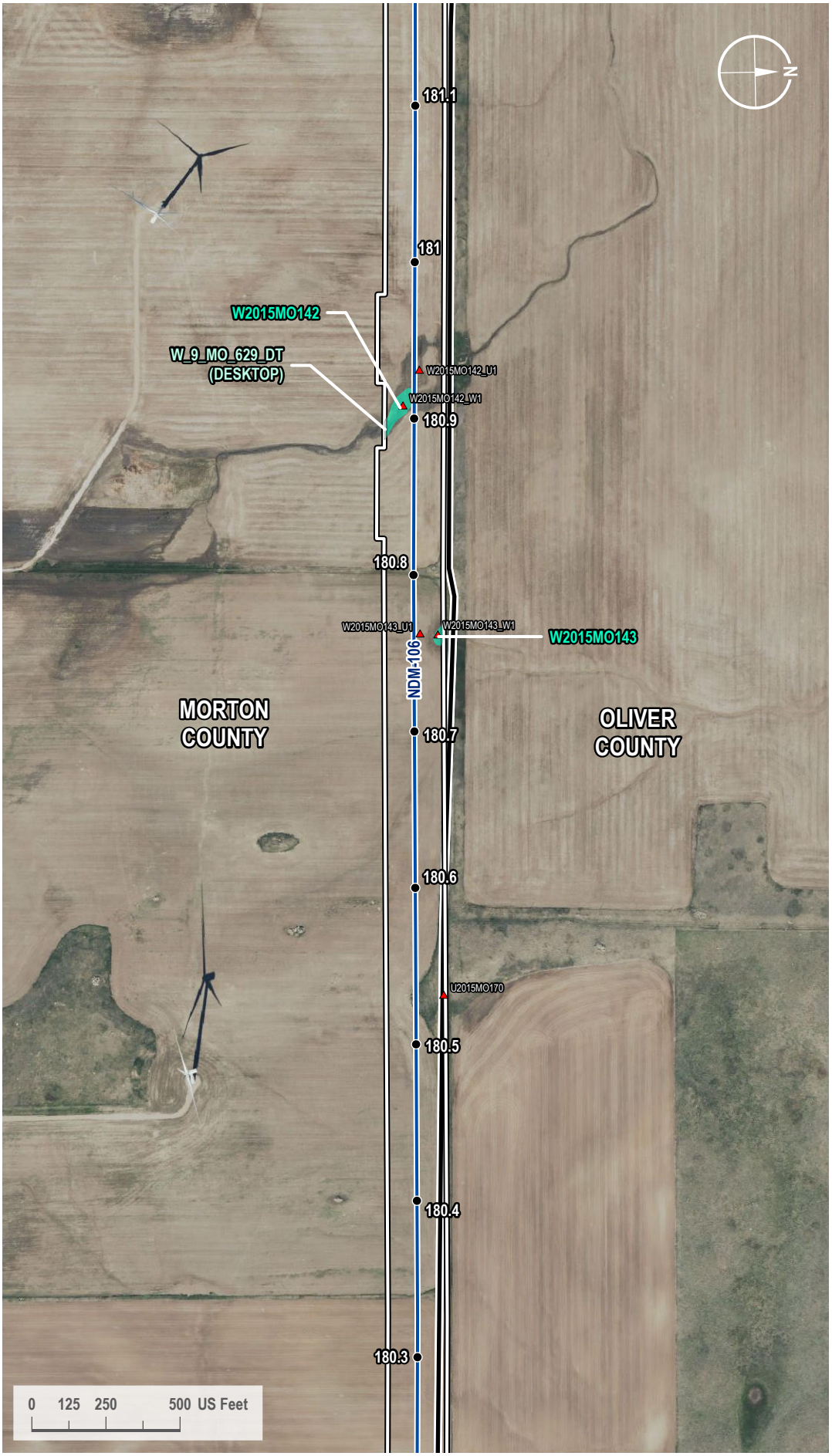

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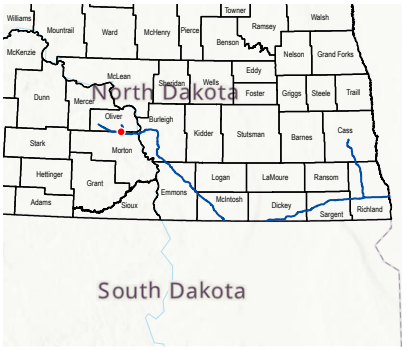

LEGEND

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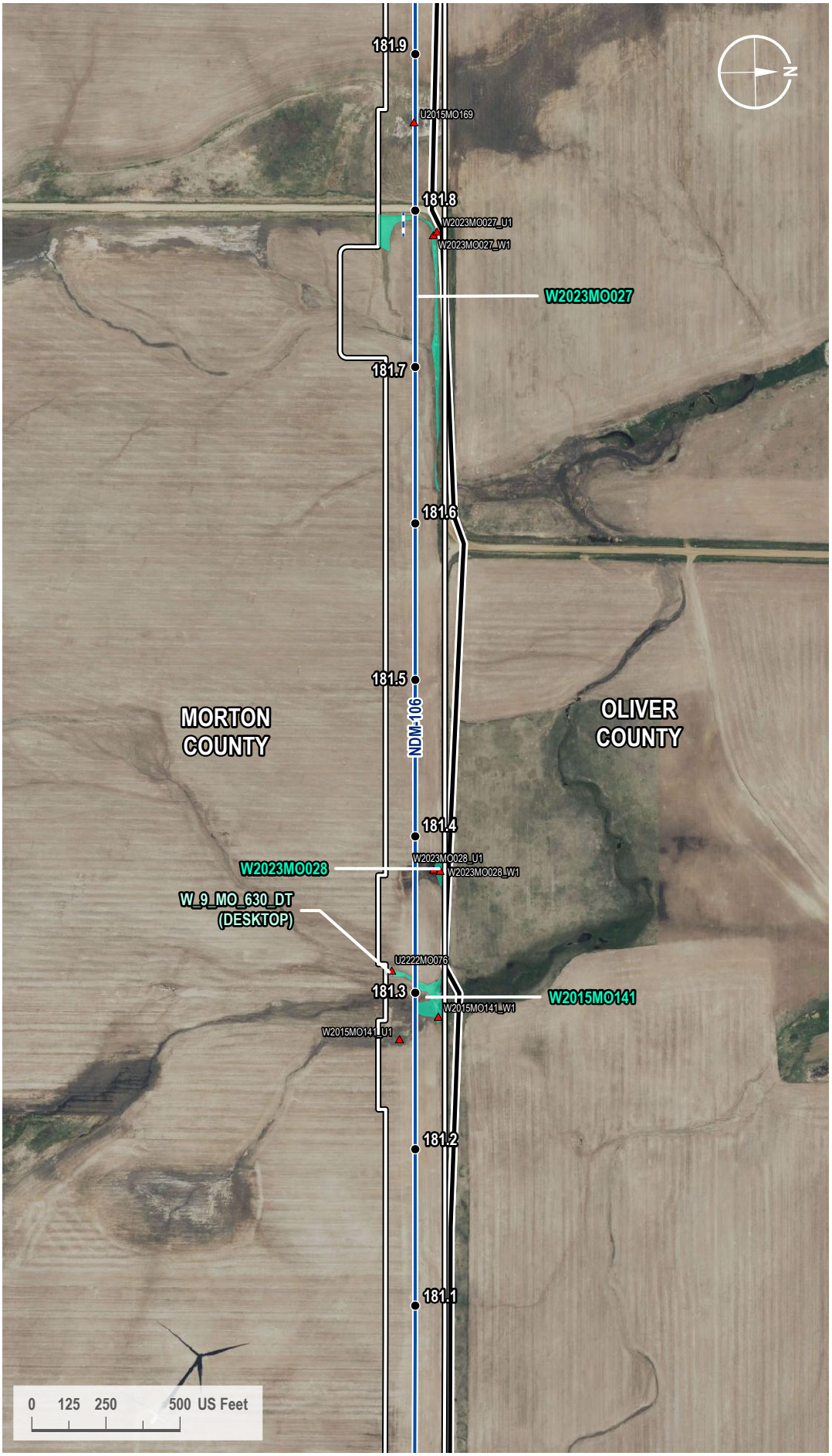

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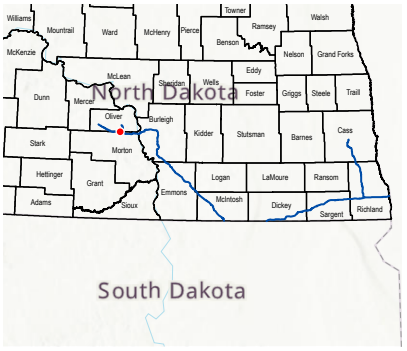

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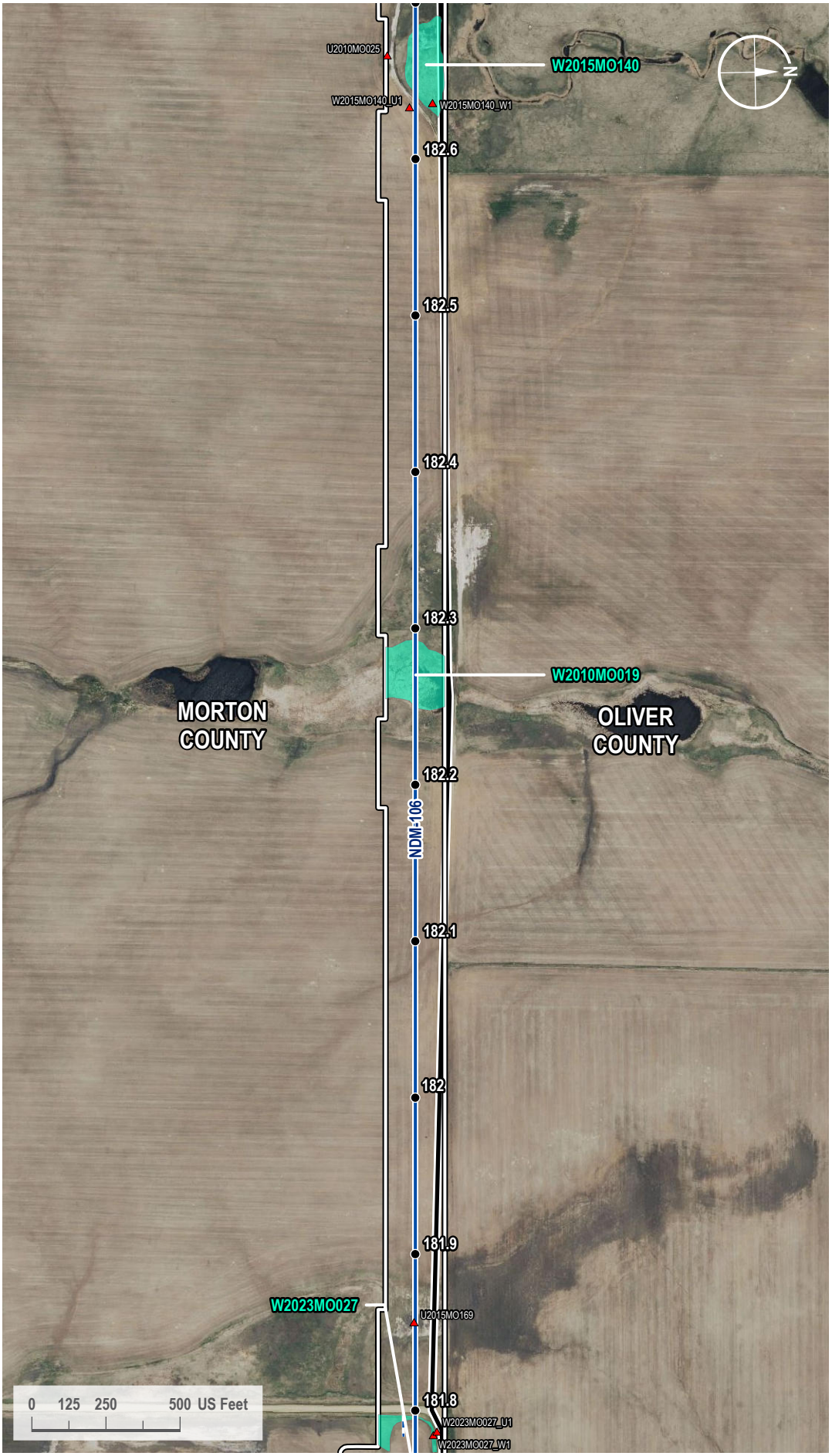

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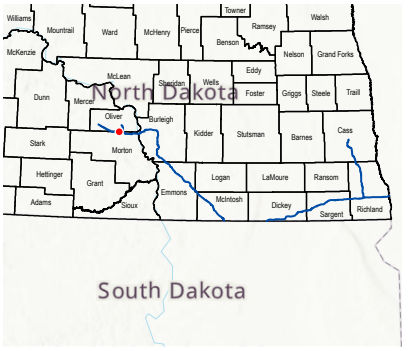

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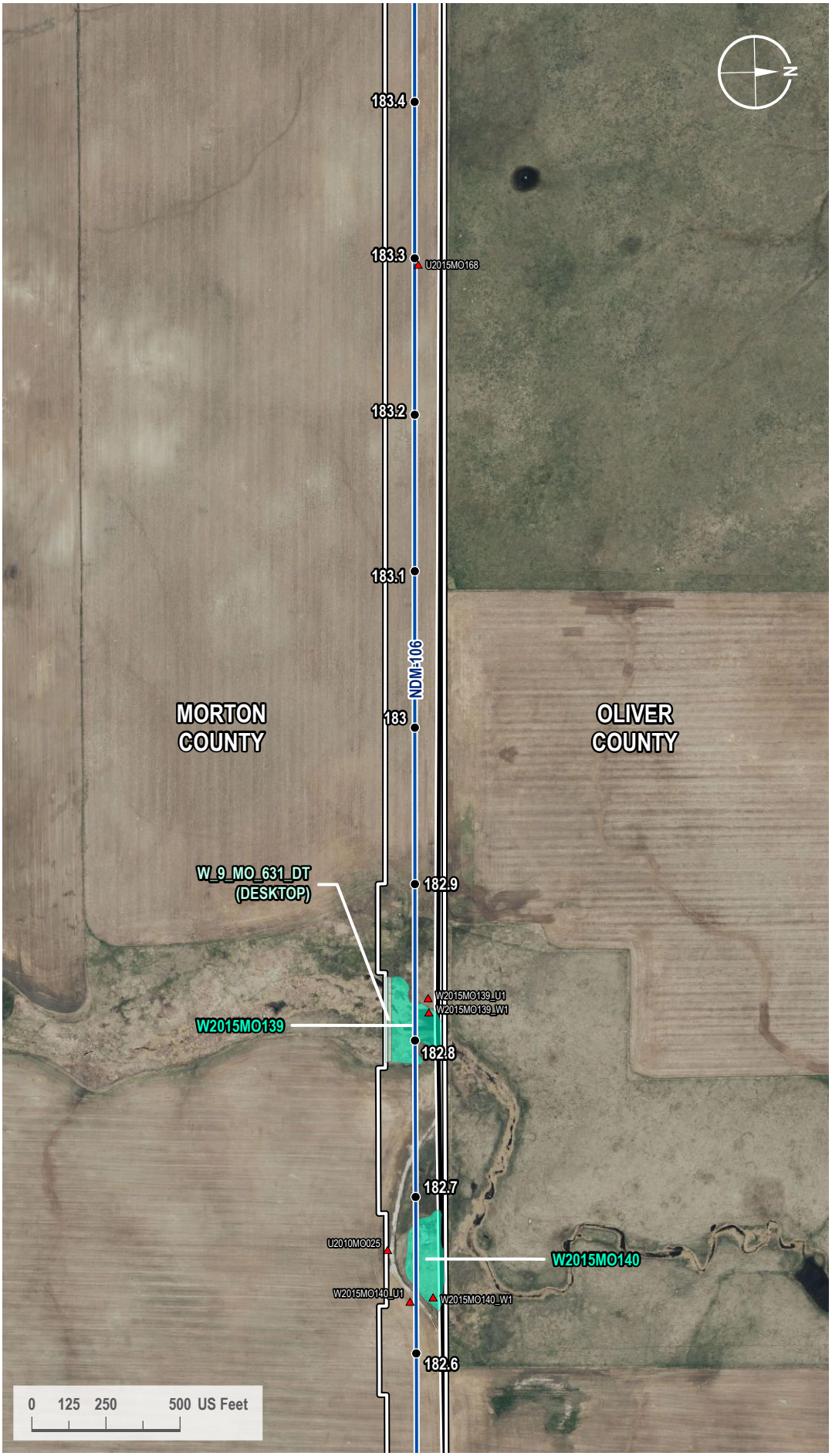

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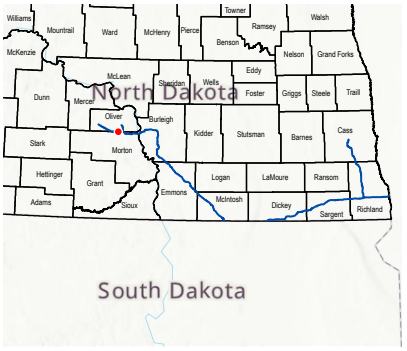

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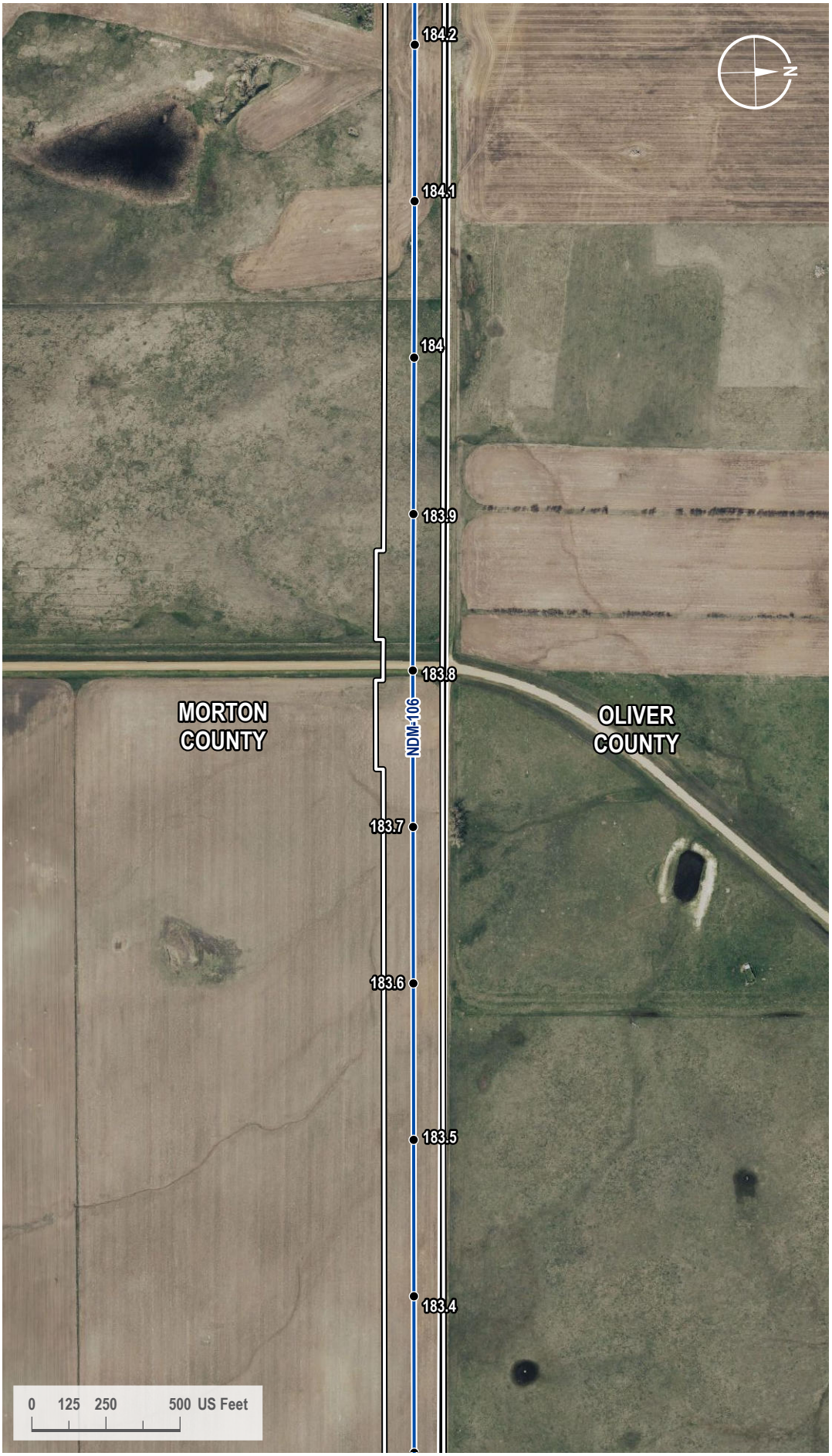

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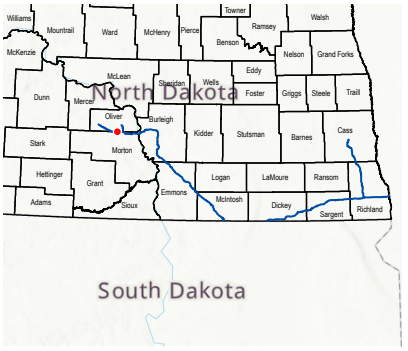

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Figure Number:
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Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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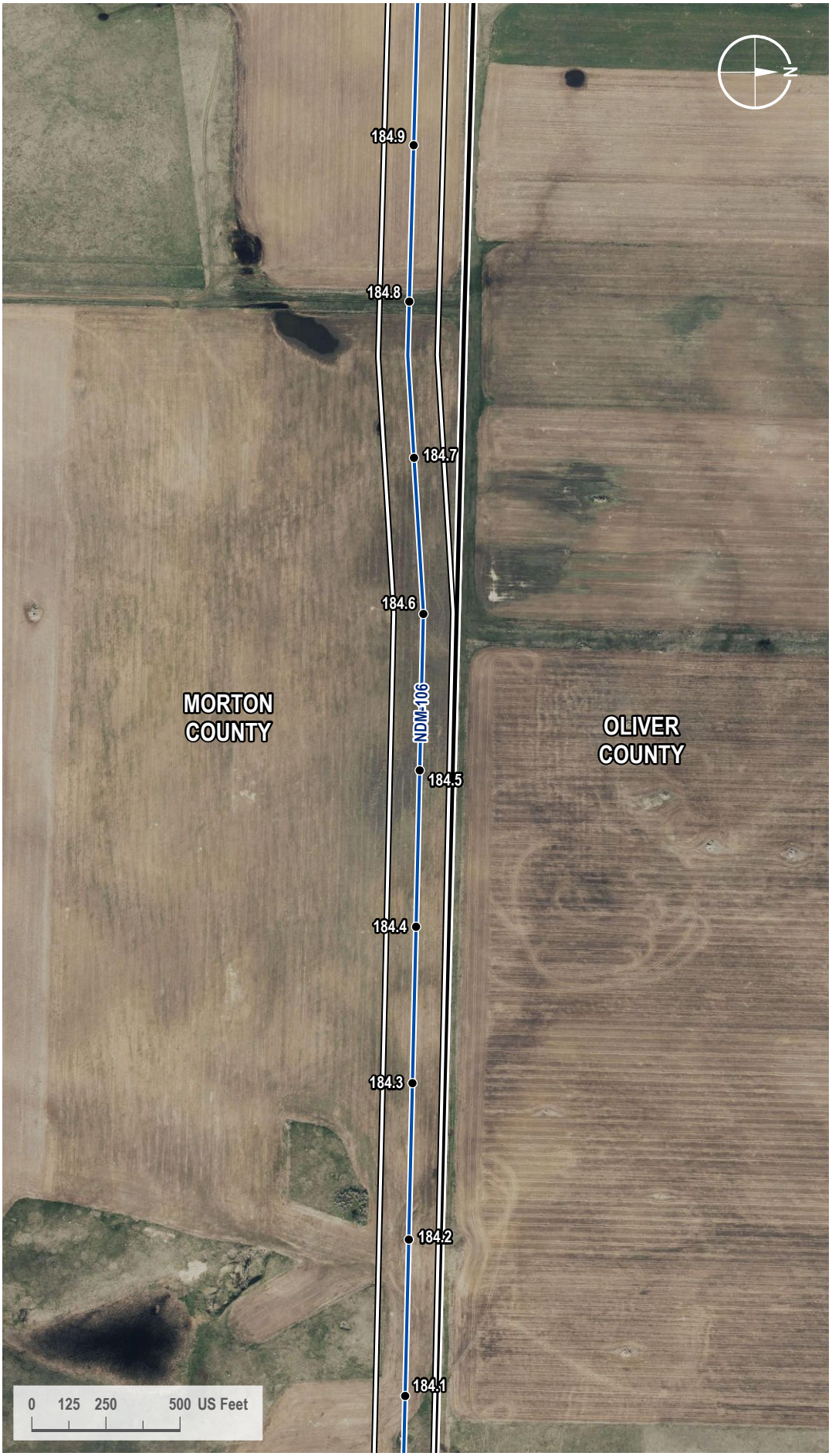

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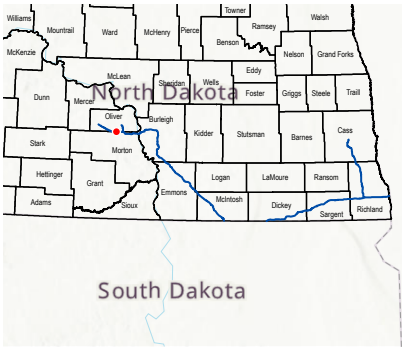

LEGEND

- Milepost
- Proposed Route
- County Line
- 200-foot Siting Corridor

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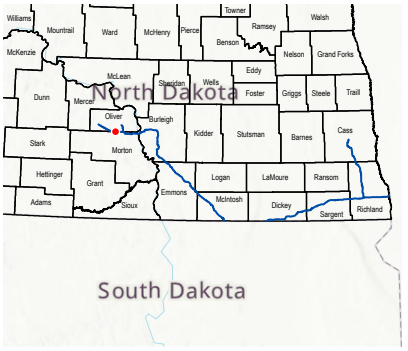

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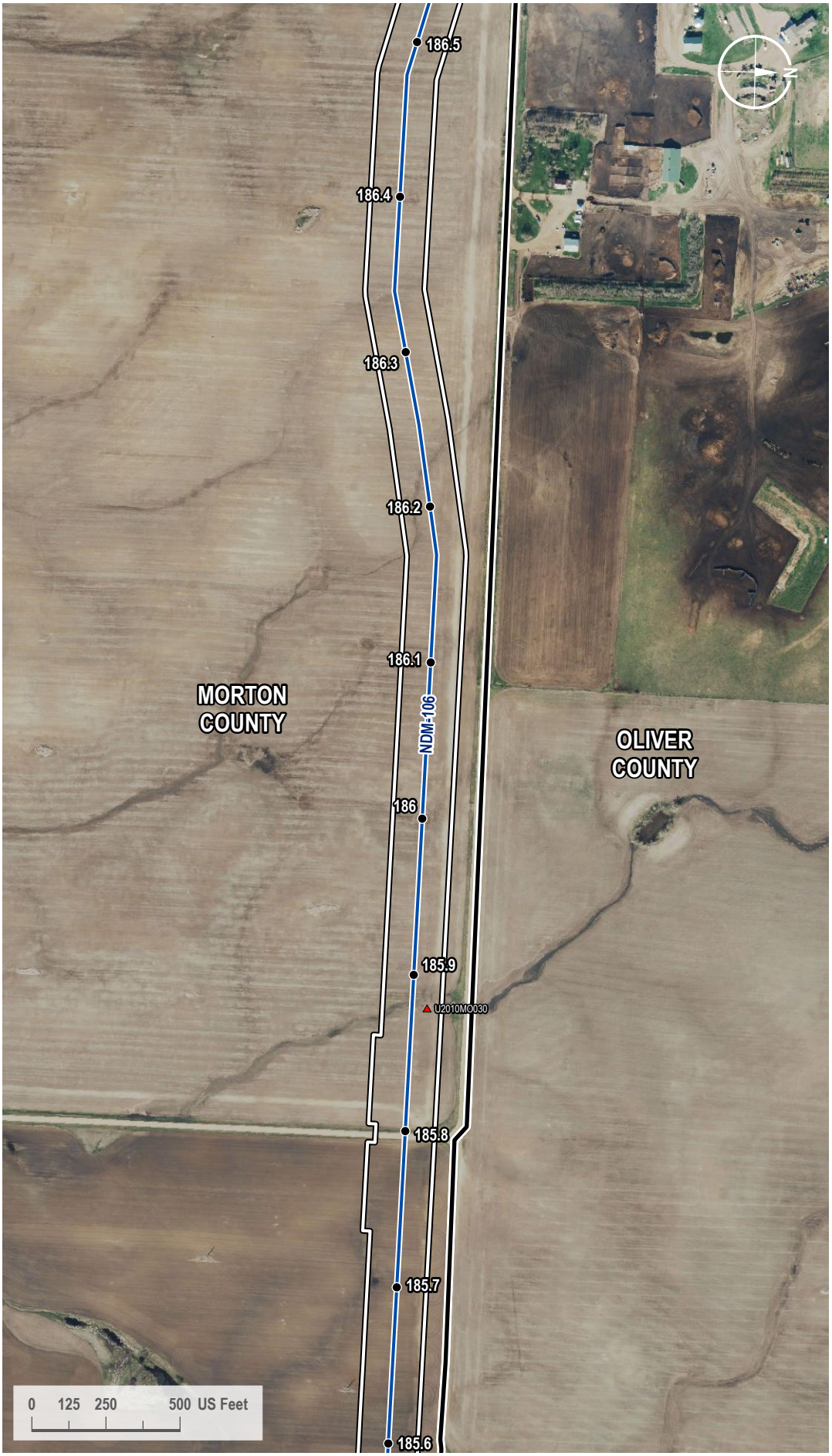

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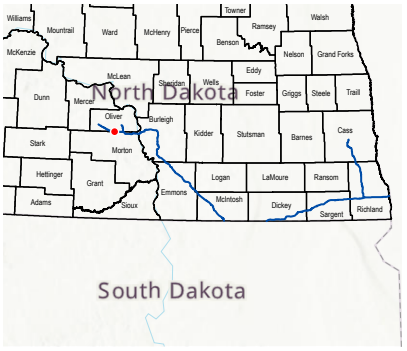

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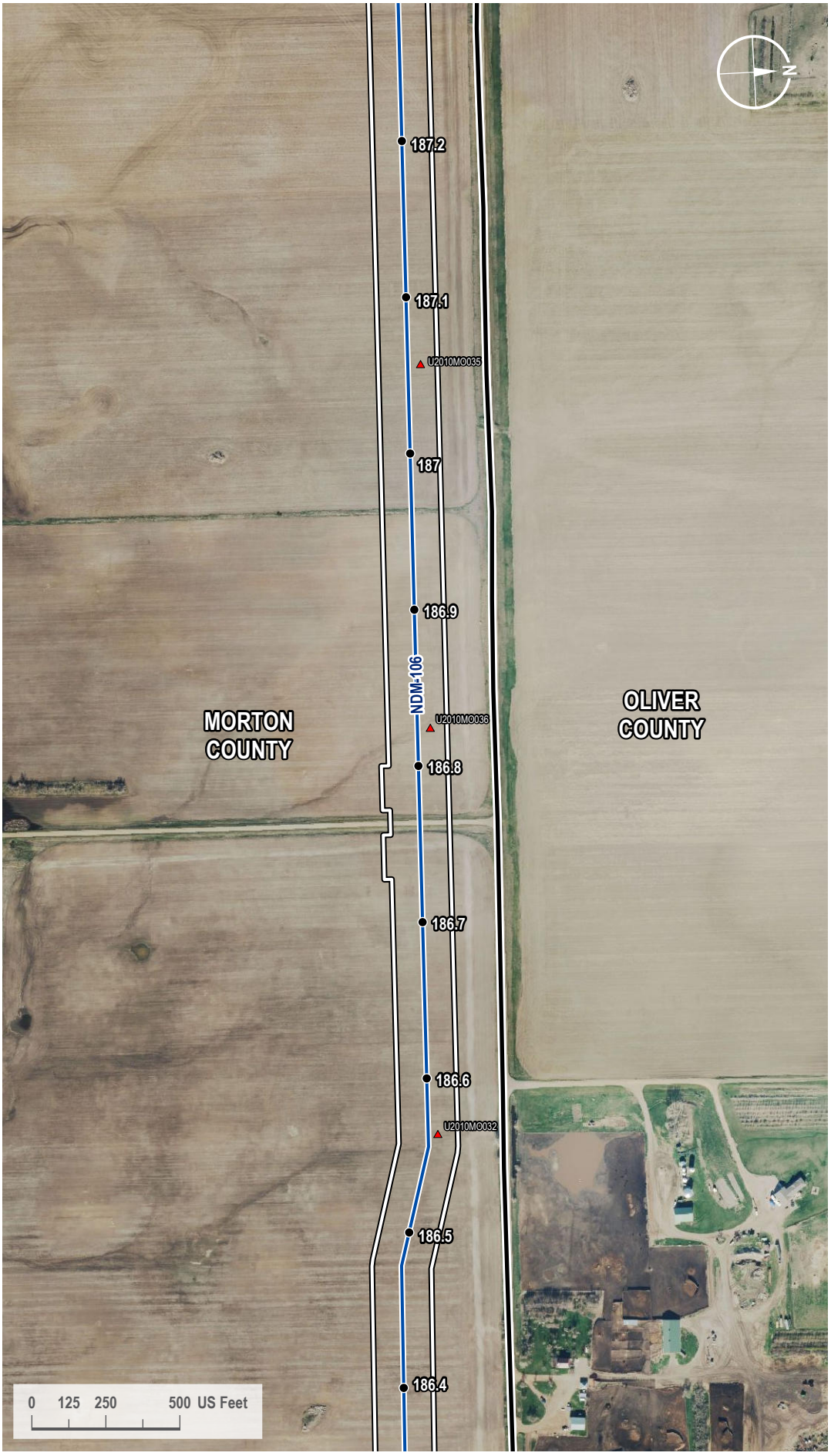

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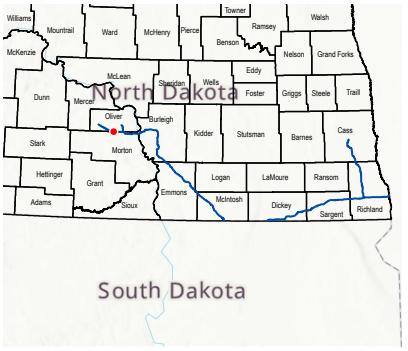

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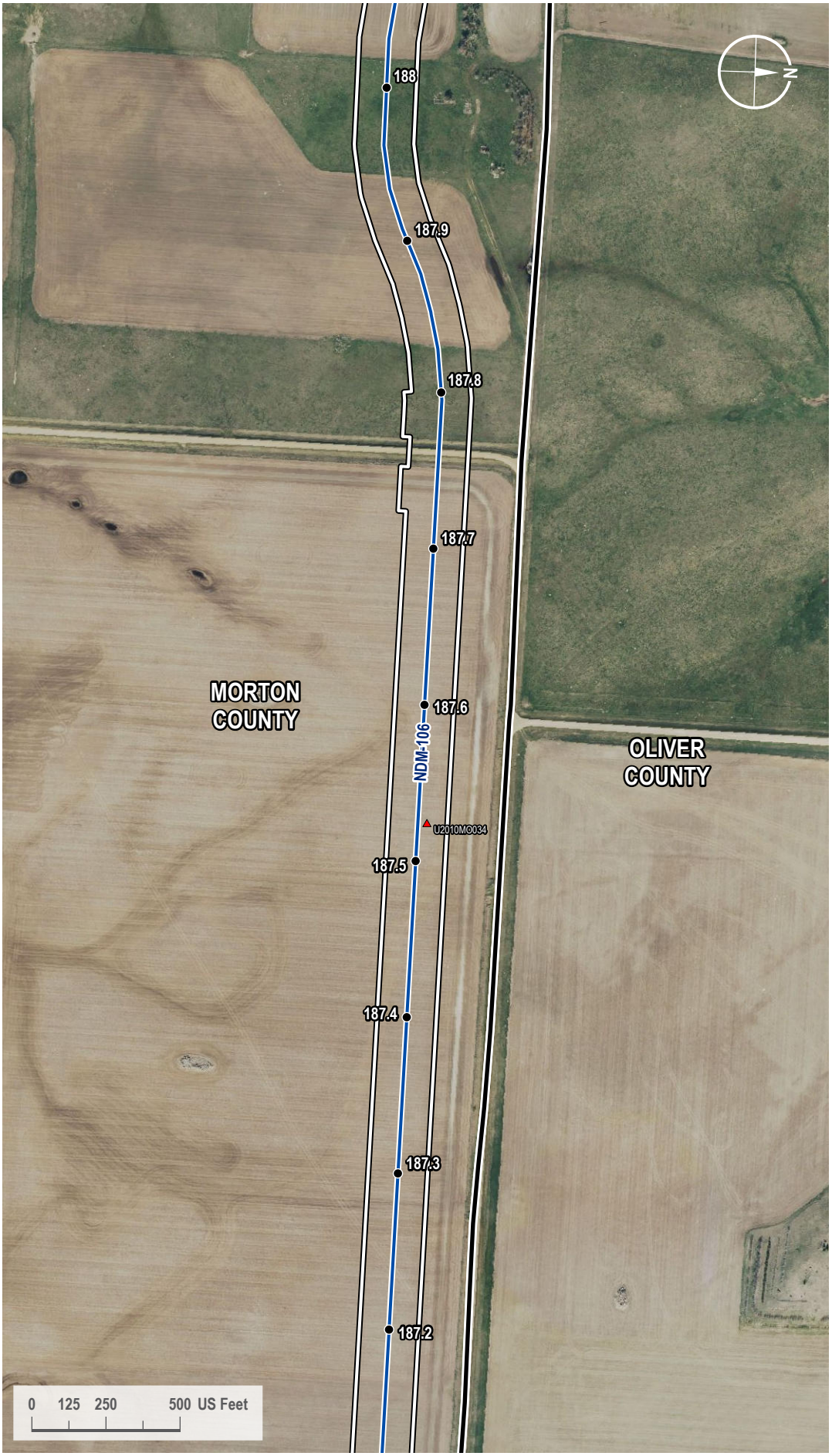

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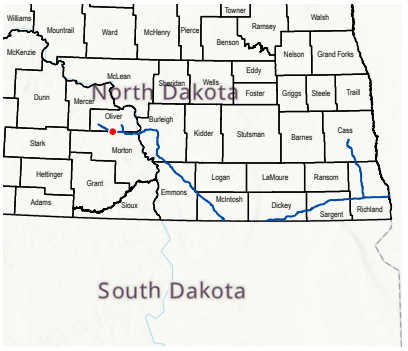

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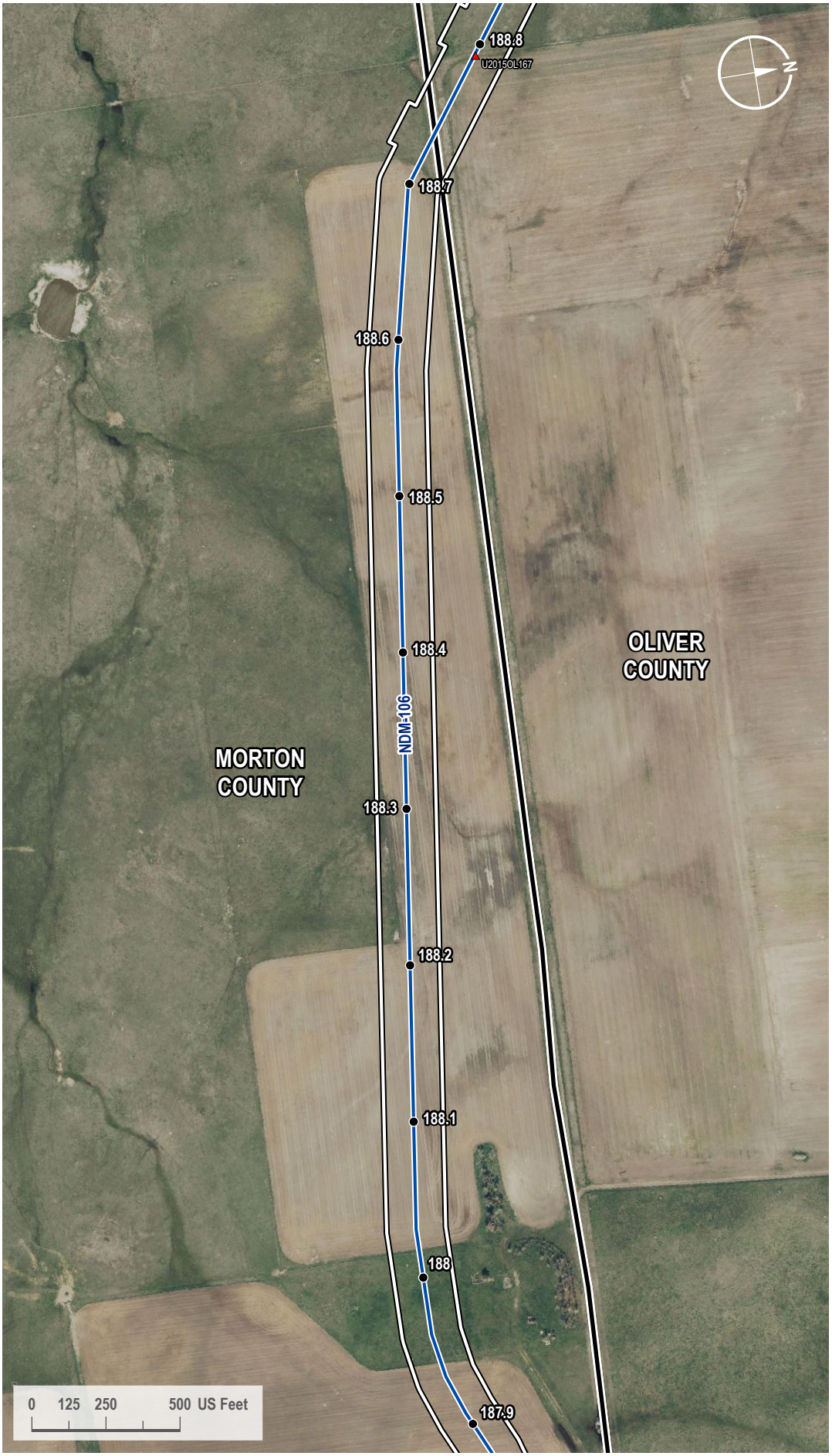

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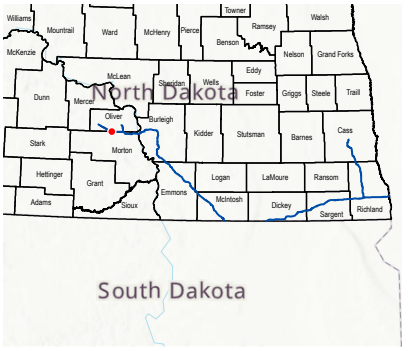

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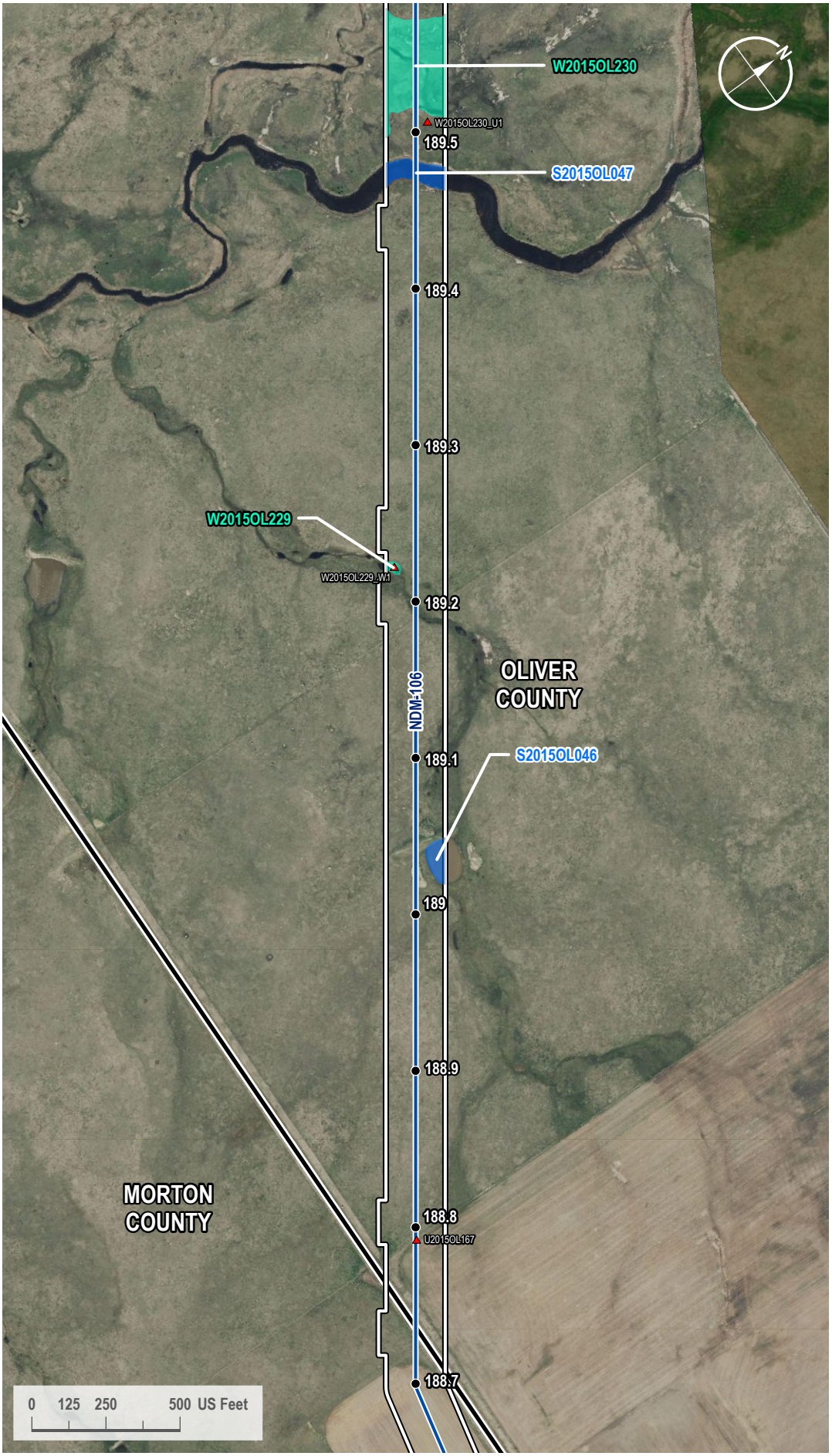

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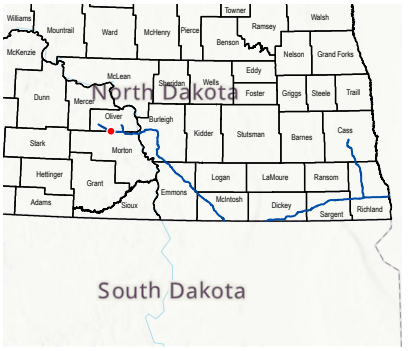

LEGEND

- Milepost
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- County Line
- 200-foot Siting Corridor
- Open Water (Surveyed)
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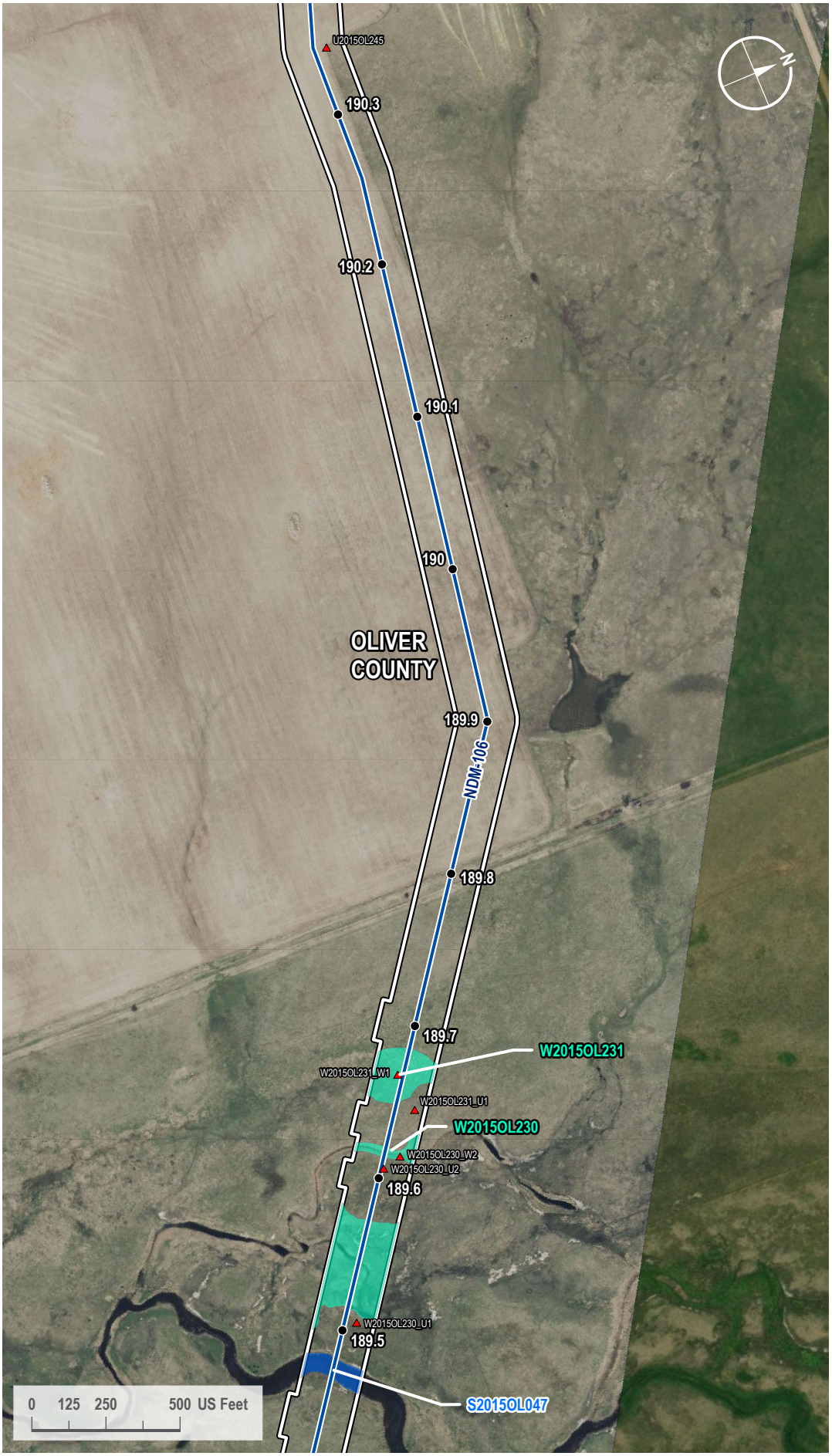

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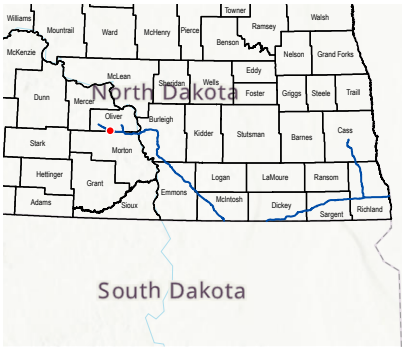

LEGEND

- Milepost
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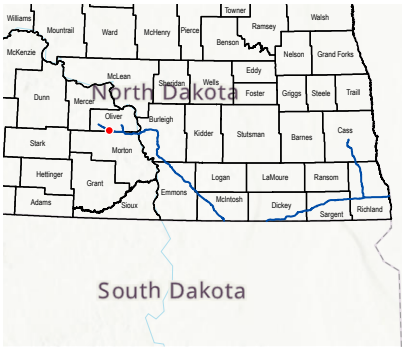

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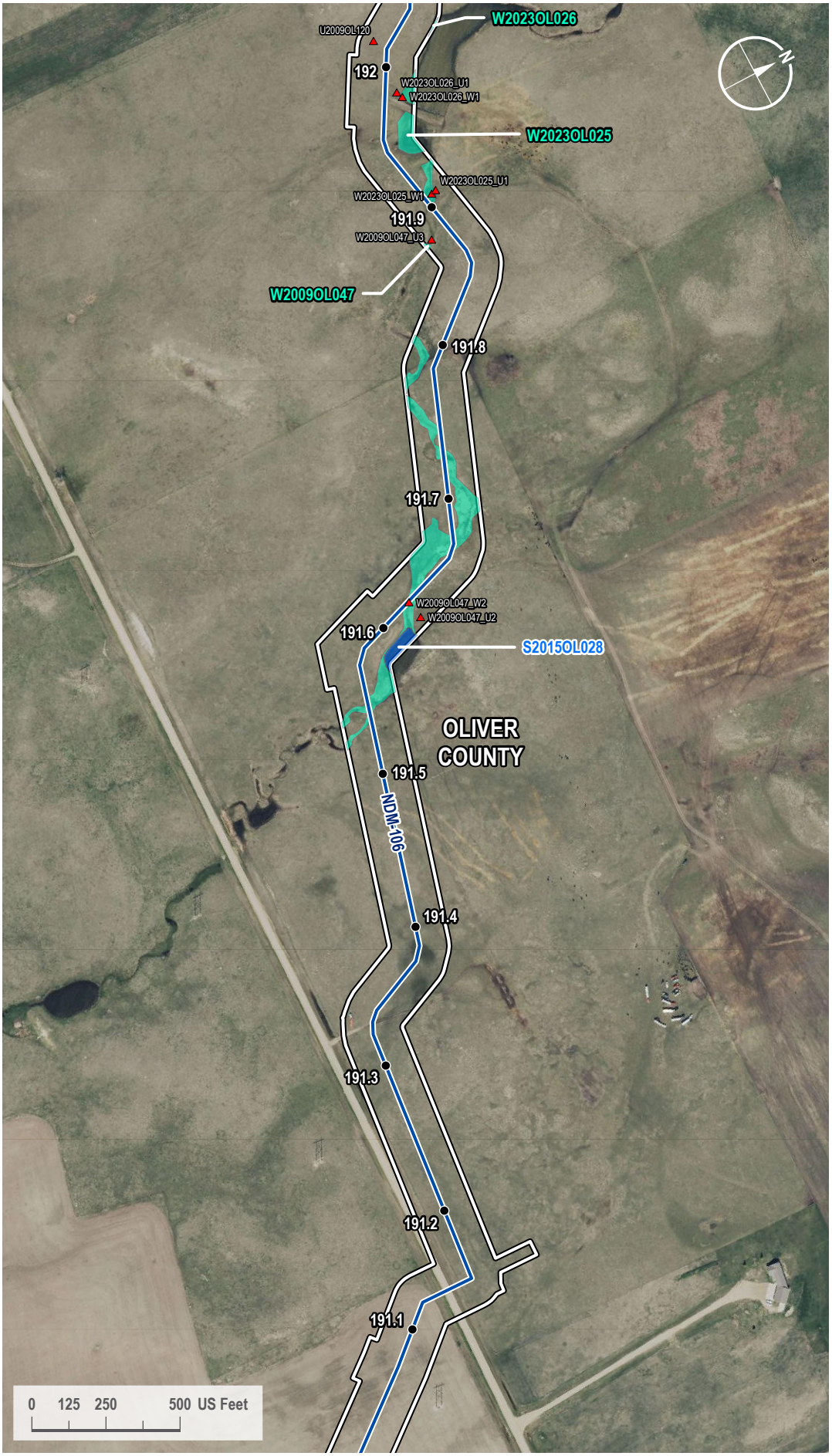

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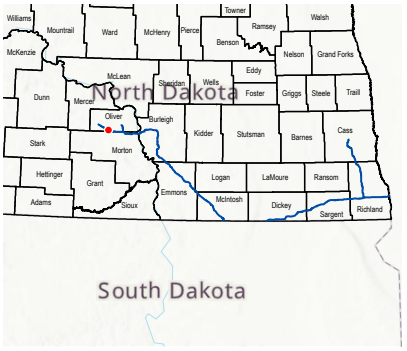

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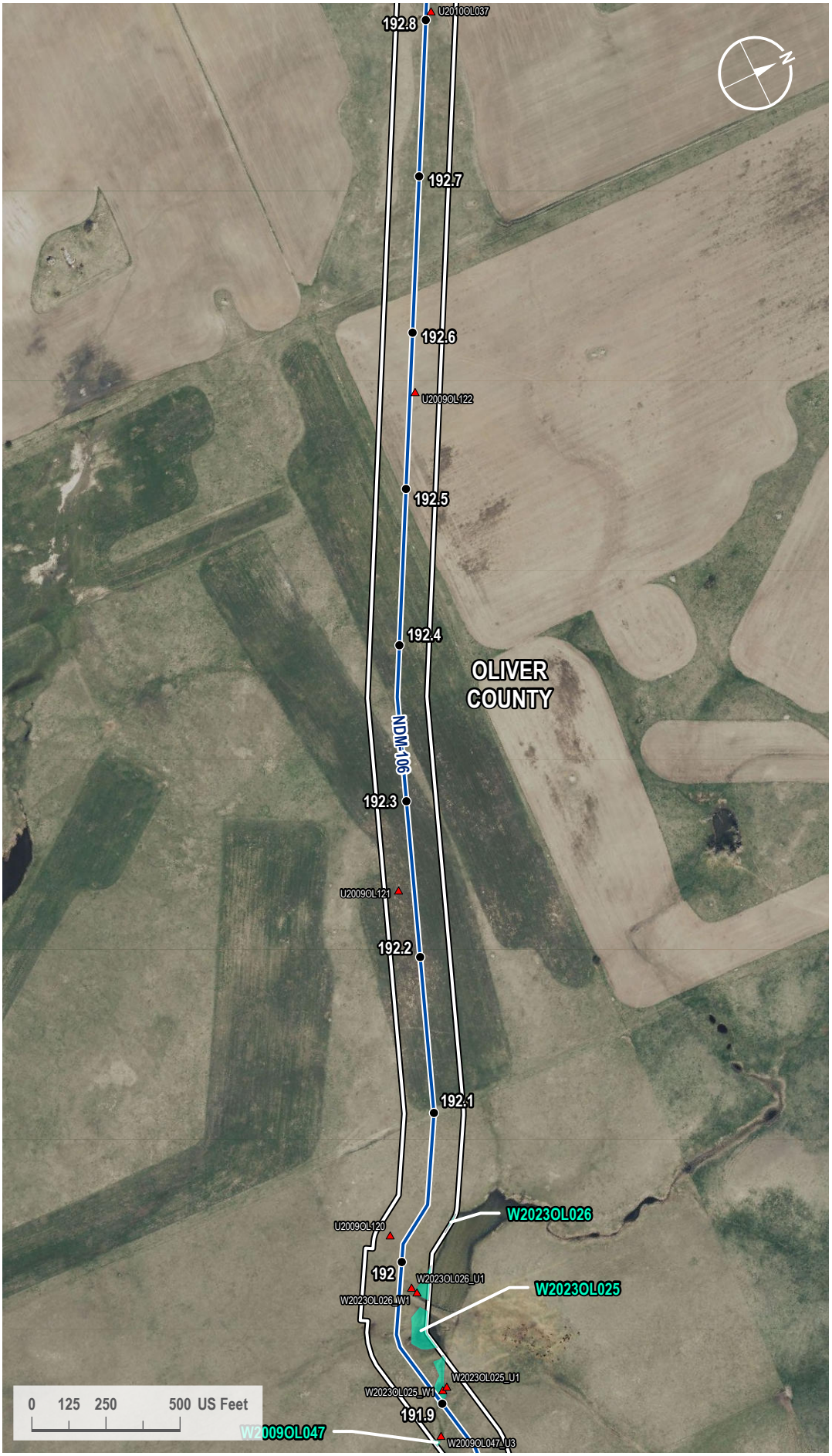

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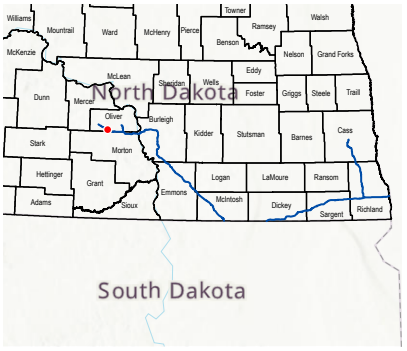

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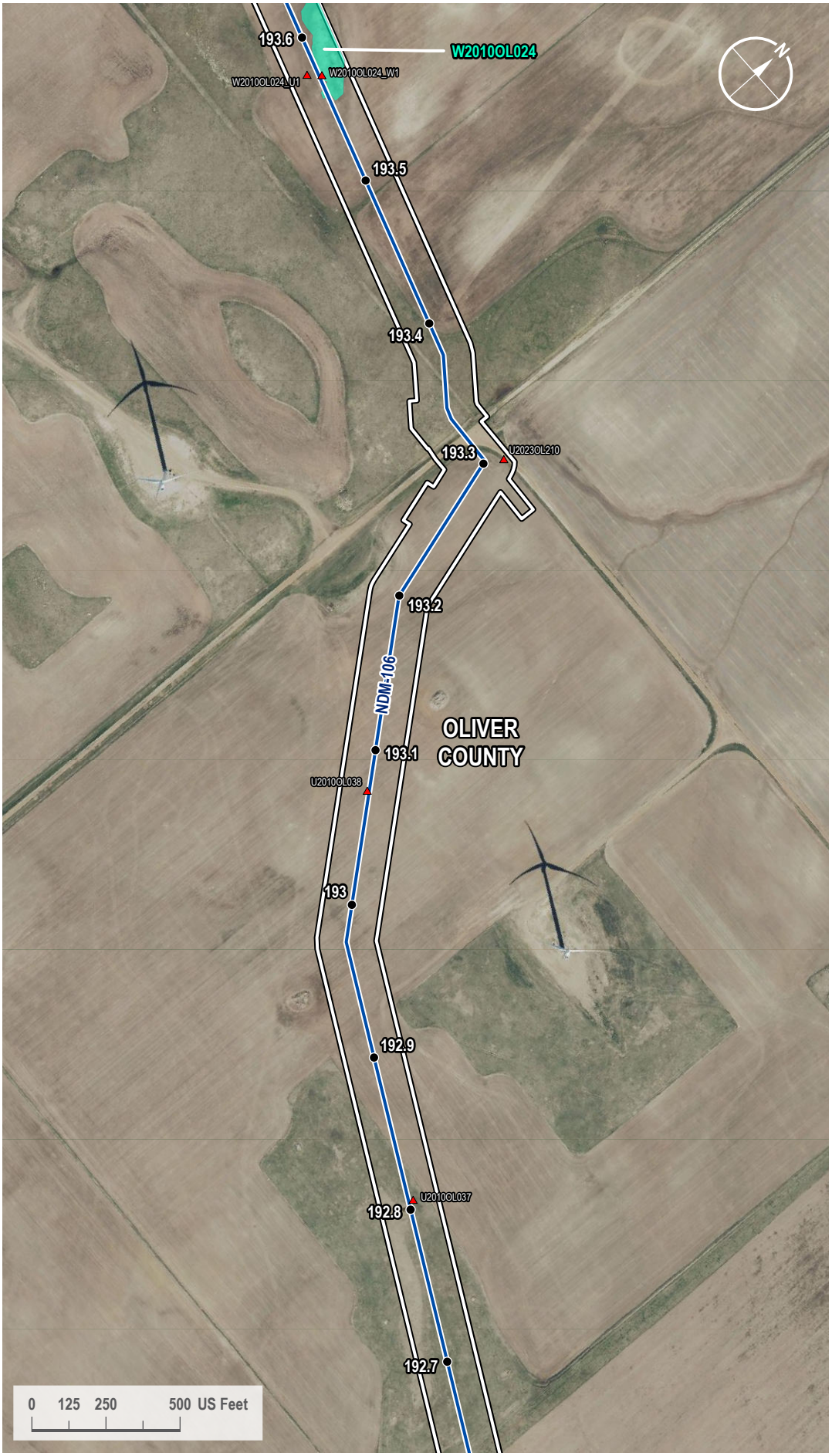

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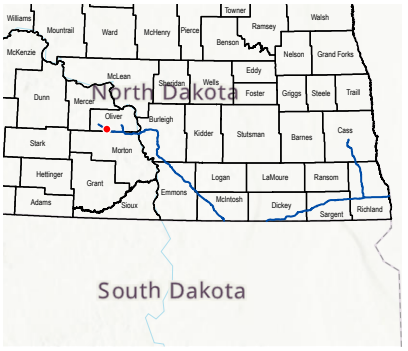

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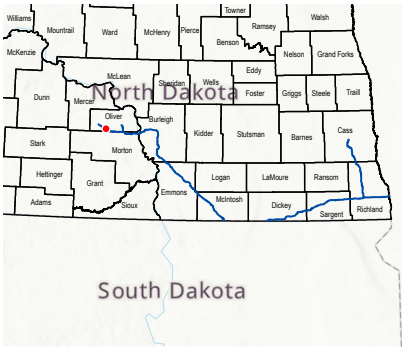

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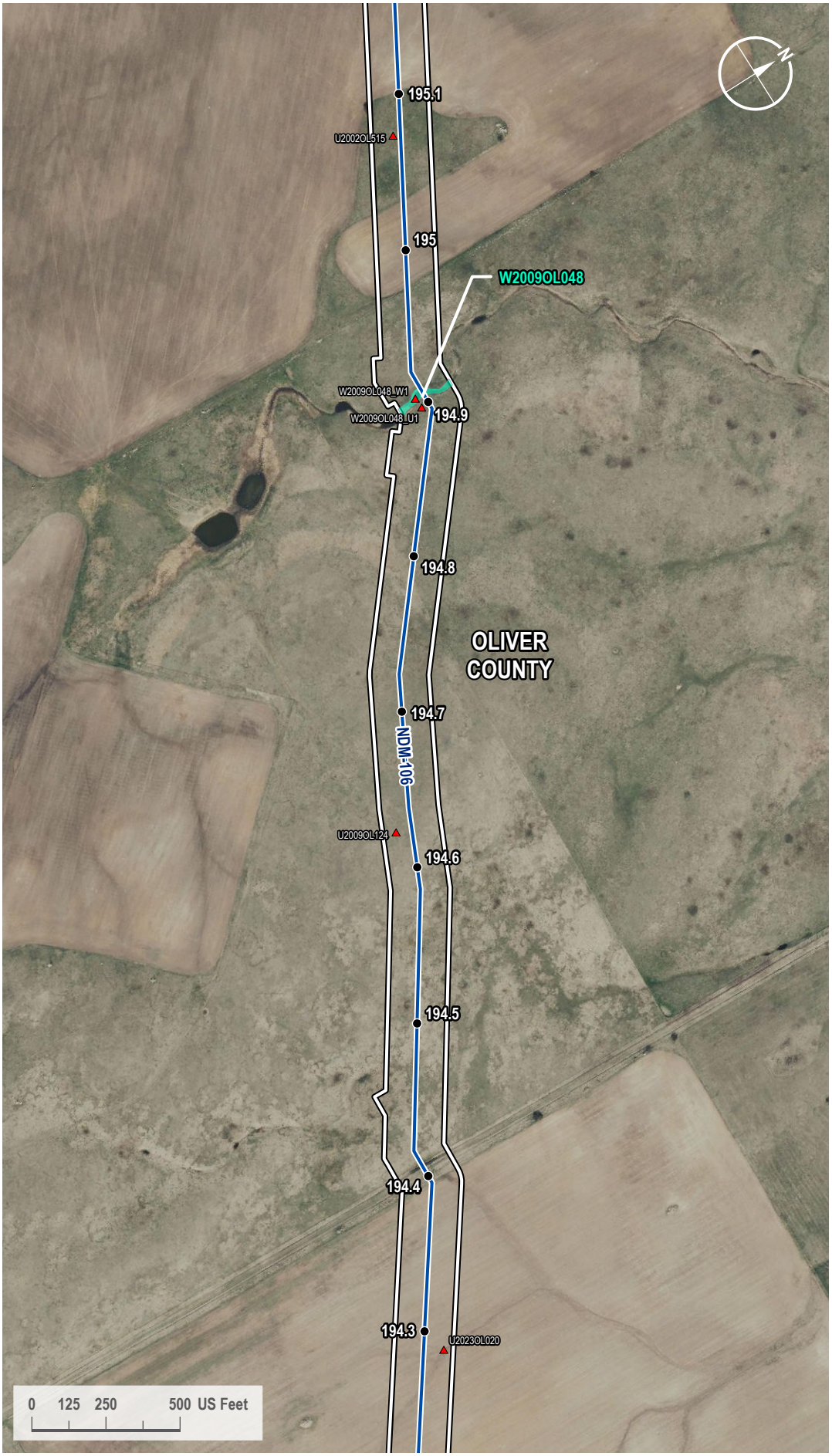

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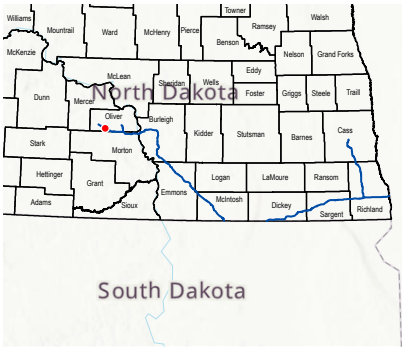

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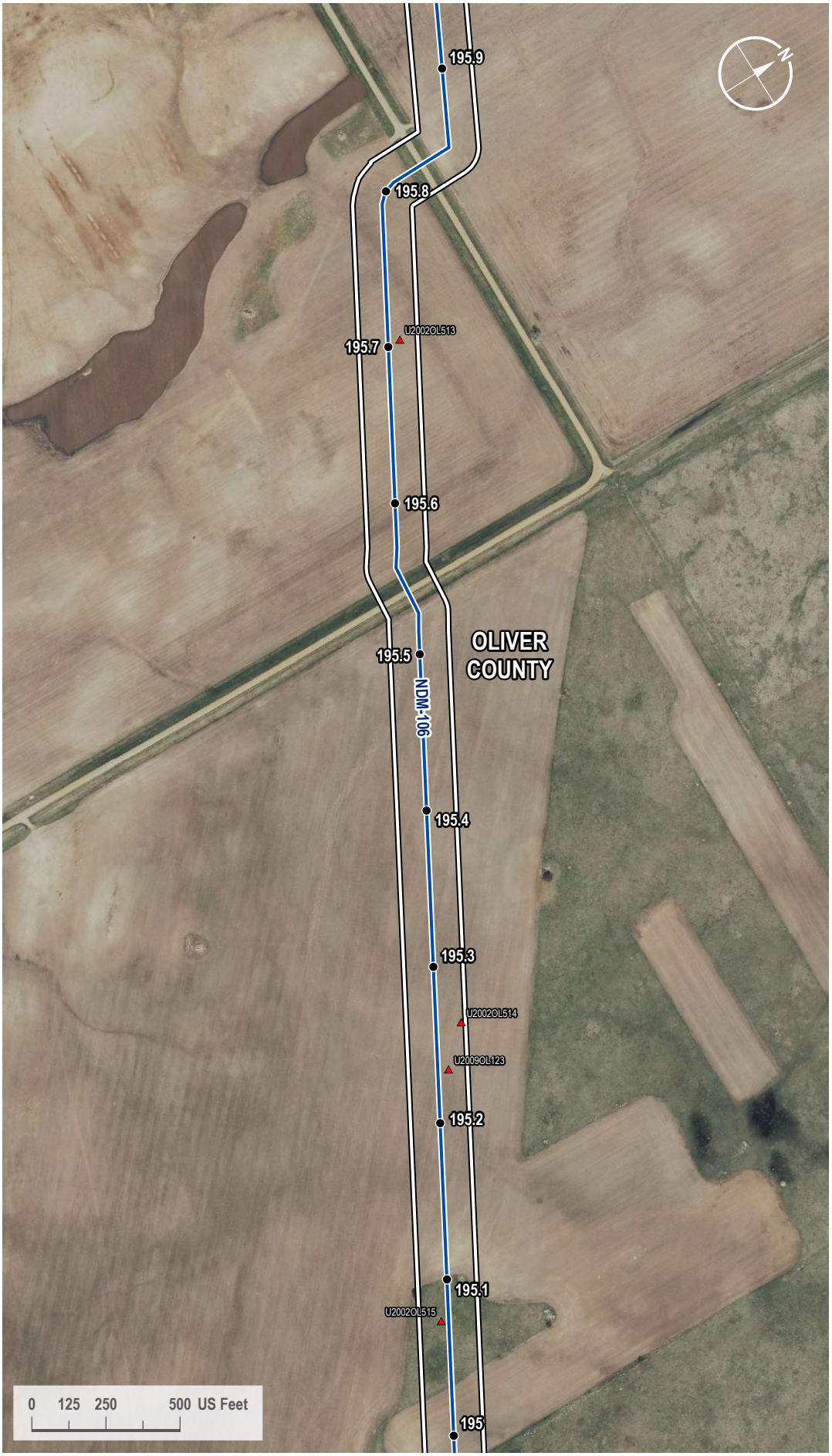

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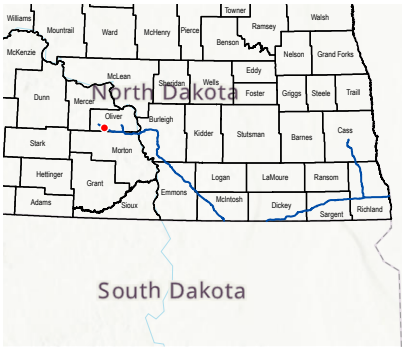

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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Figure Number:
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Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
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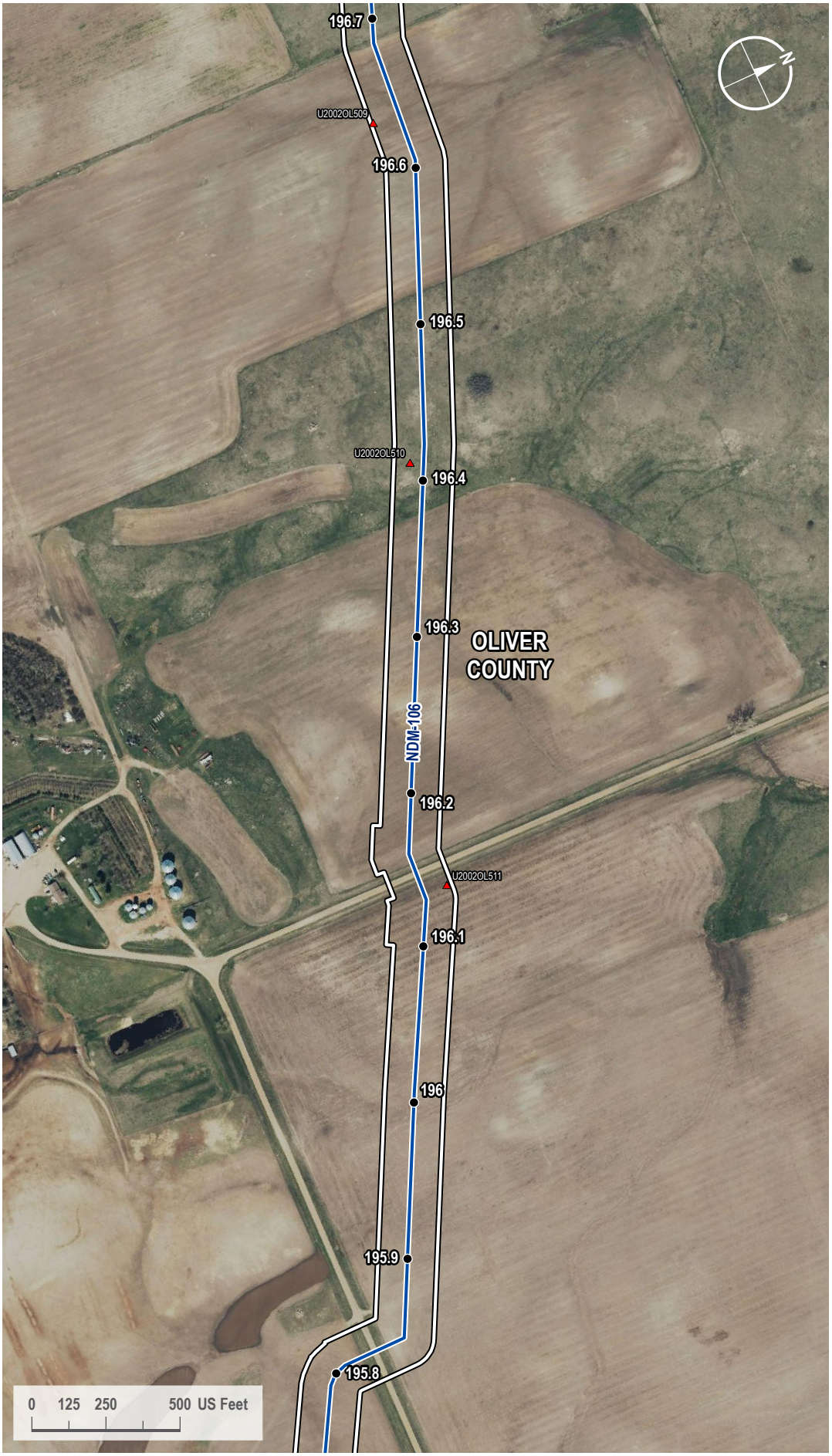

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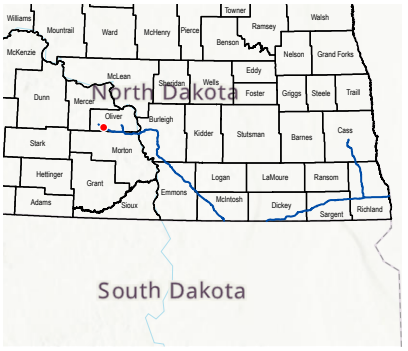

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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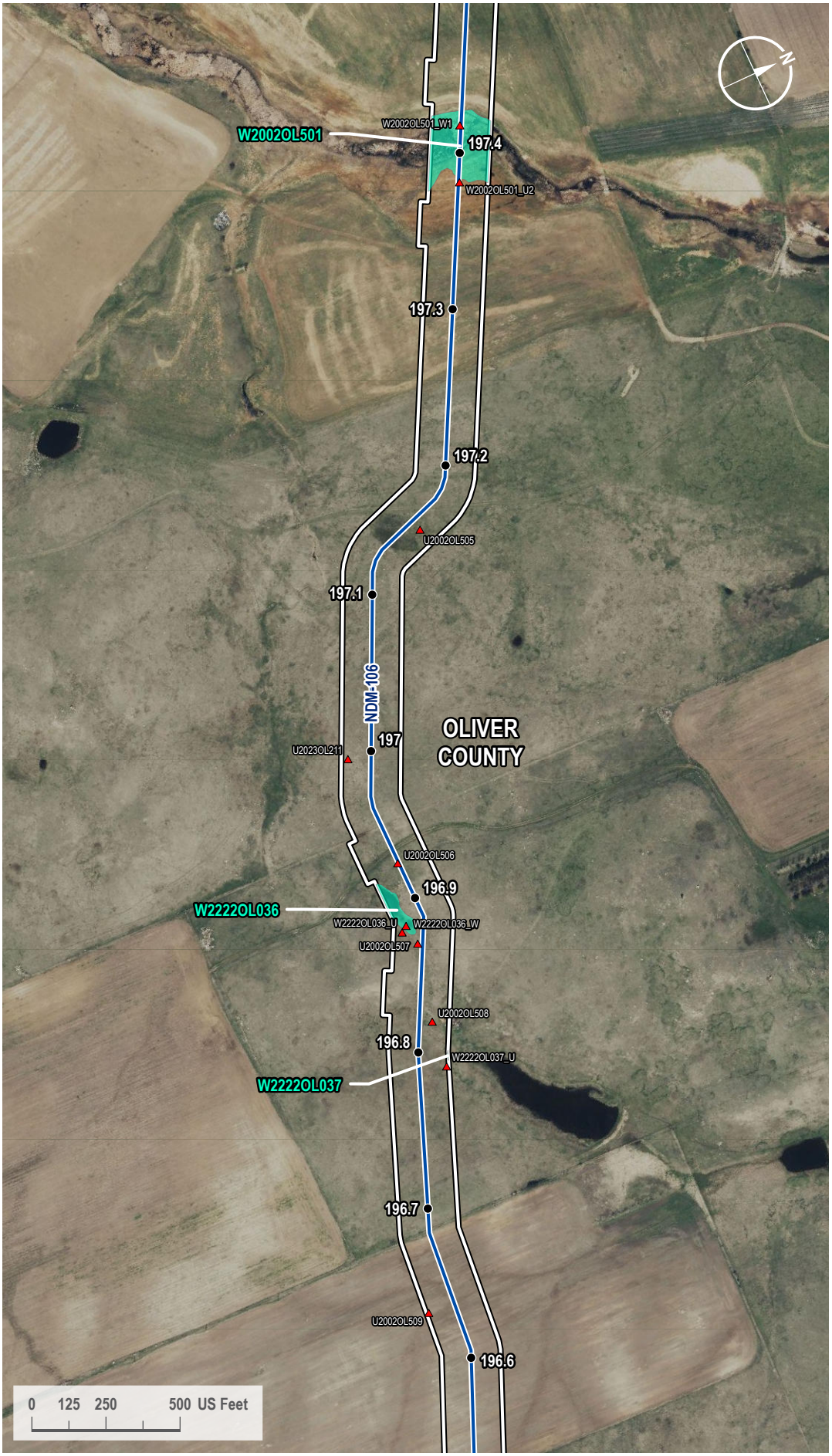

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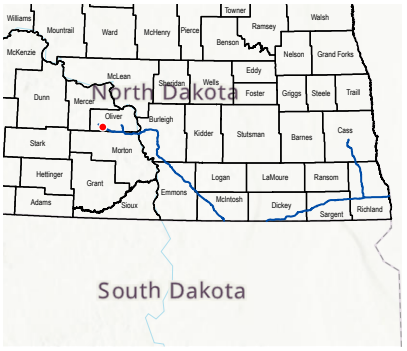

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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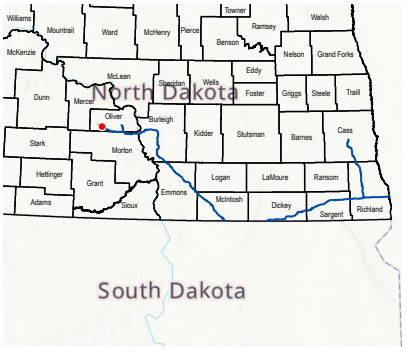

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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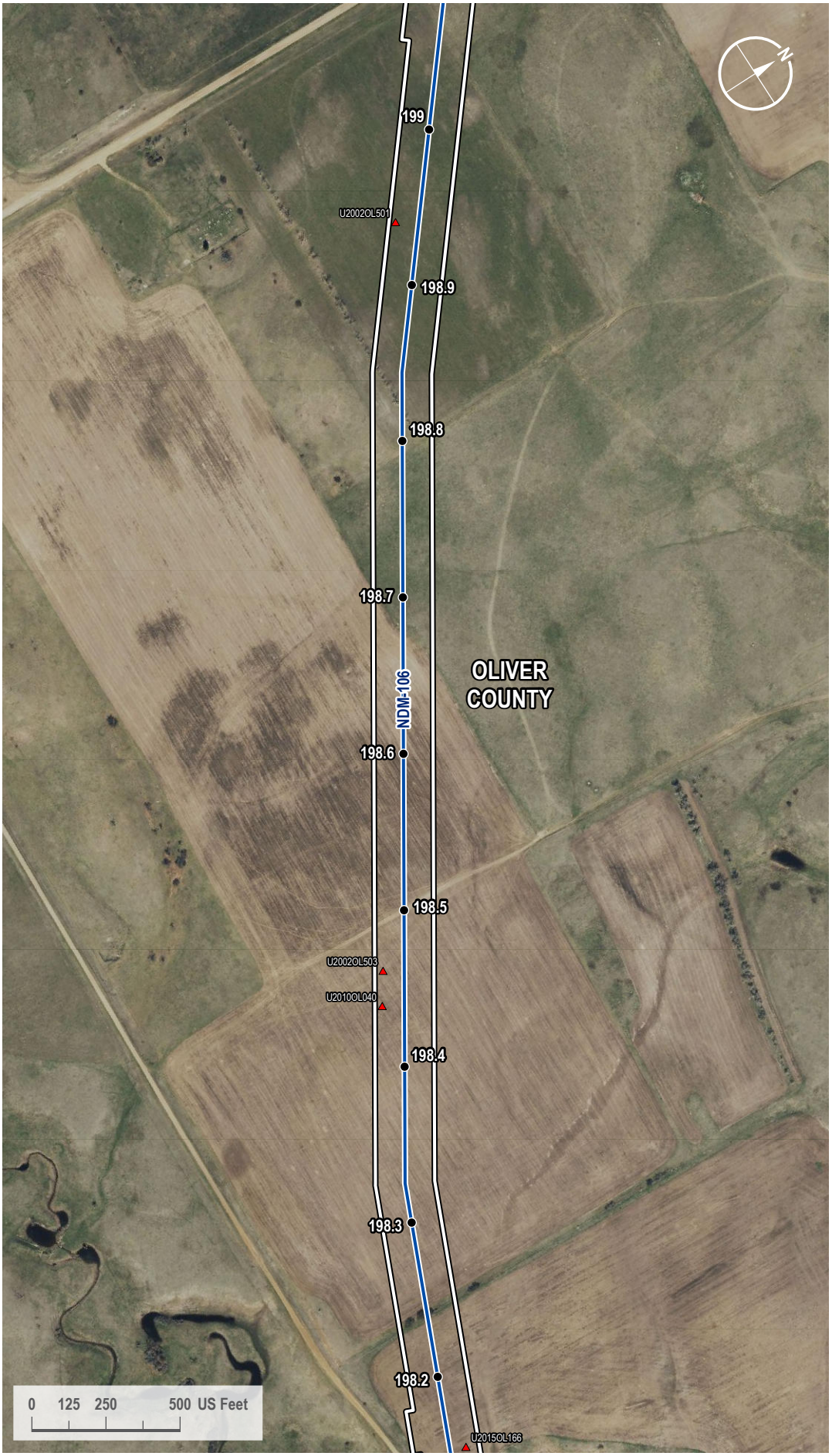

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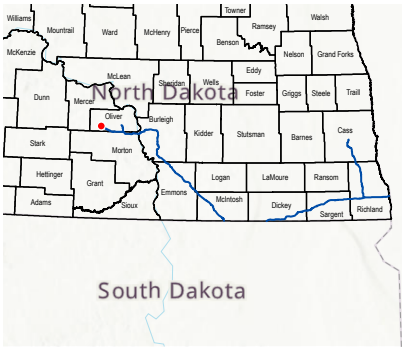

LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor

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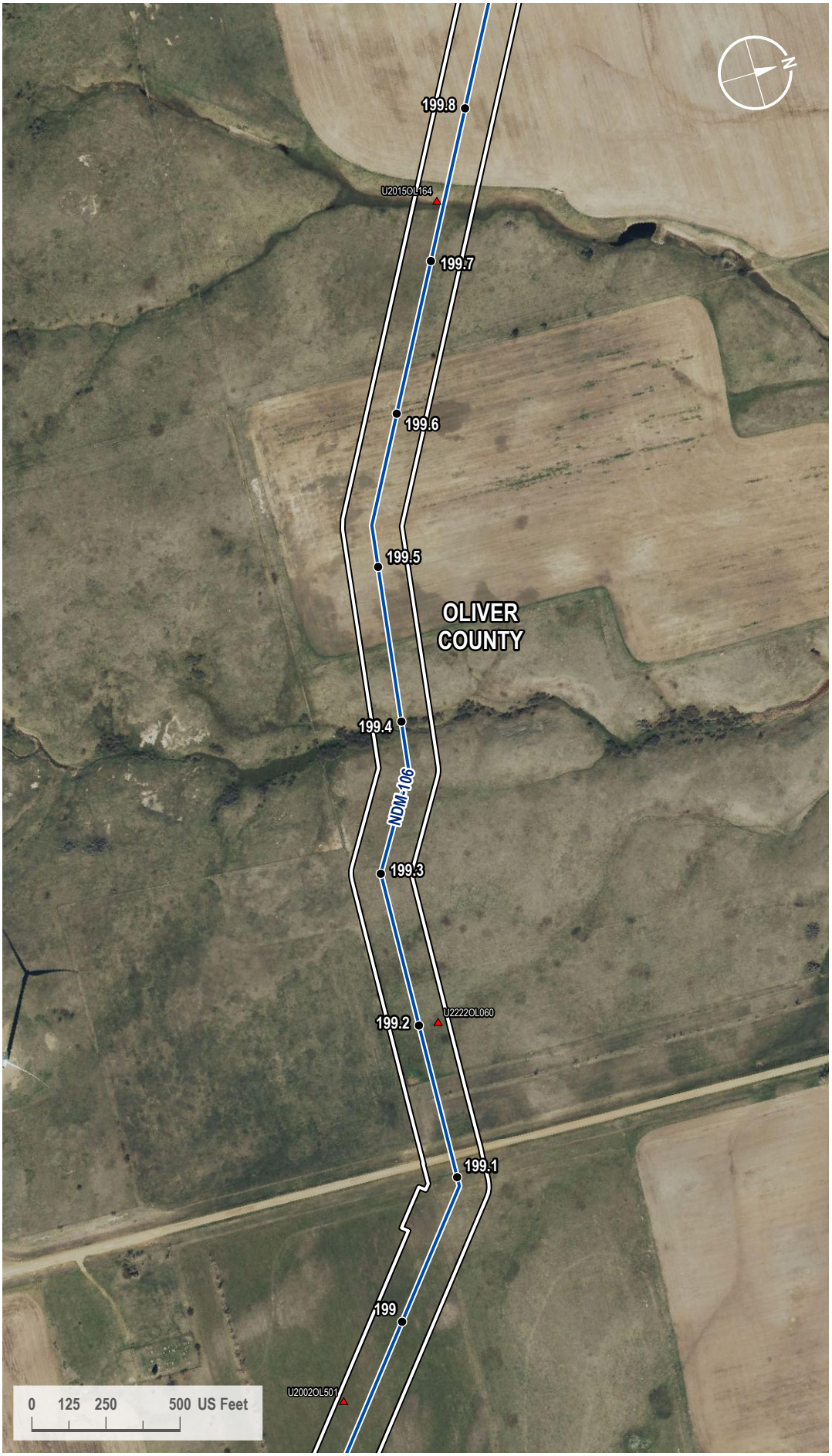

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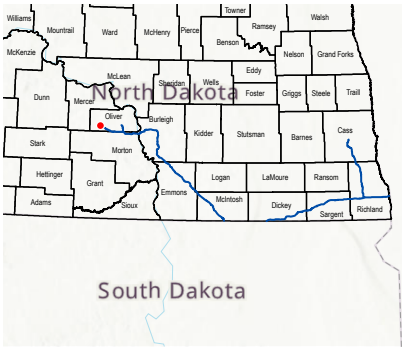

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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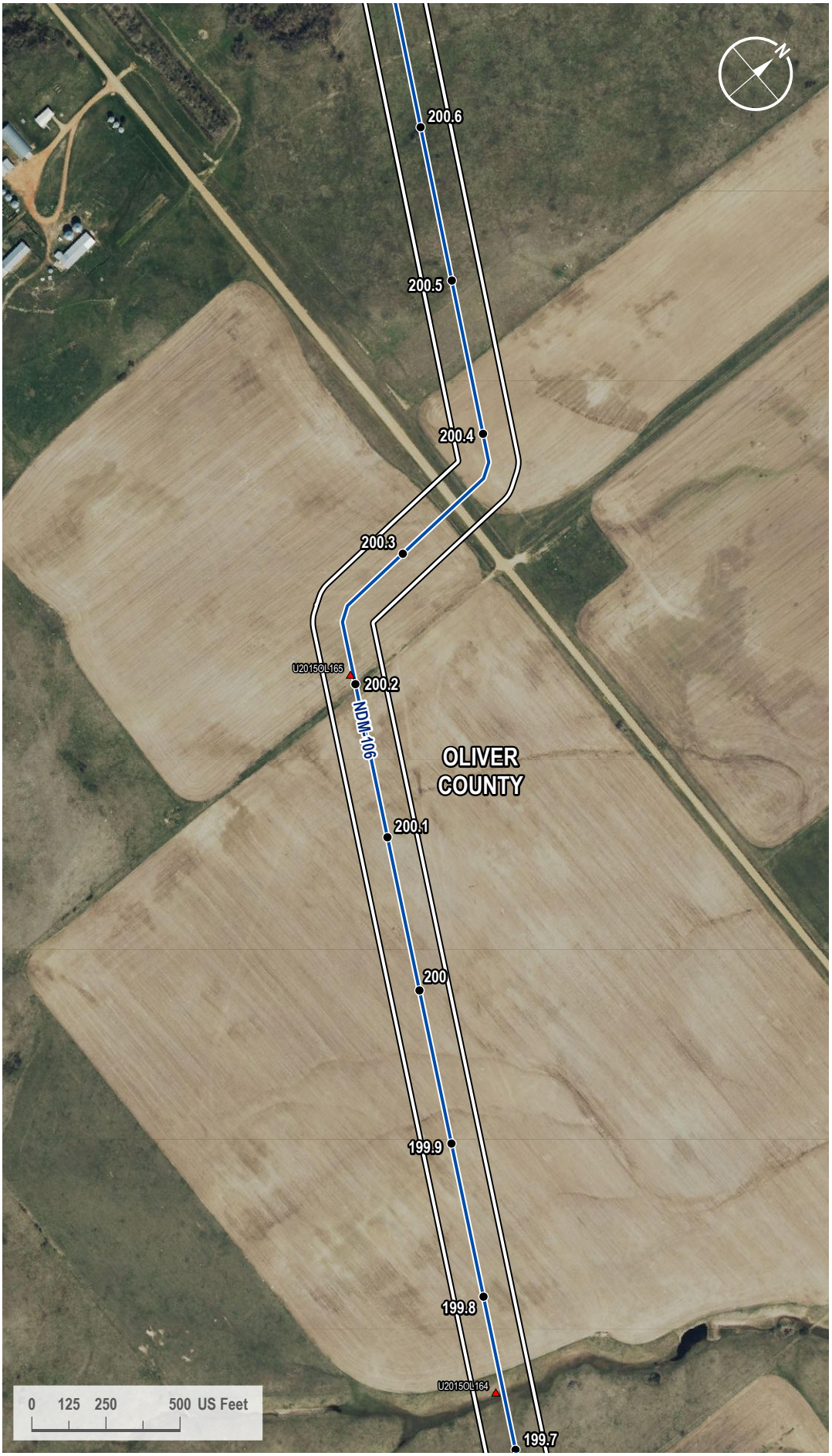

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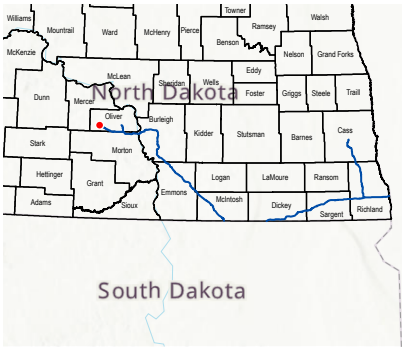

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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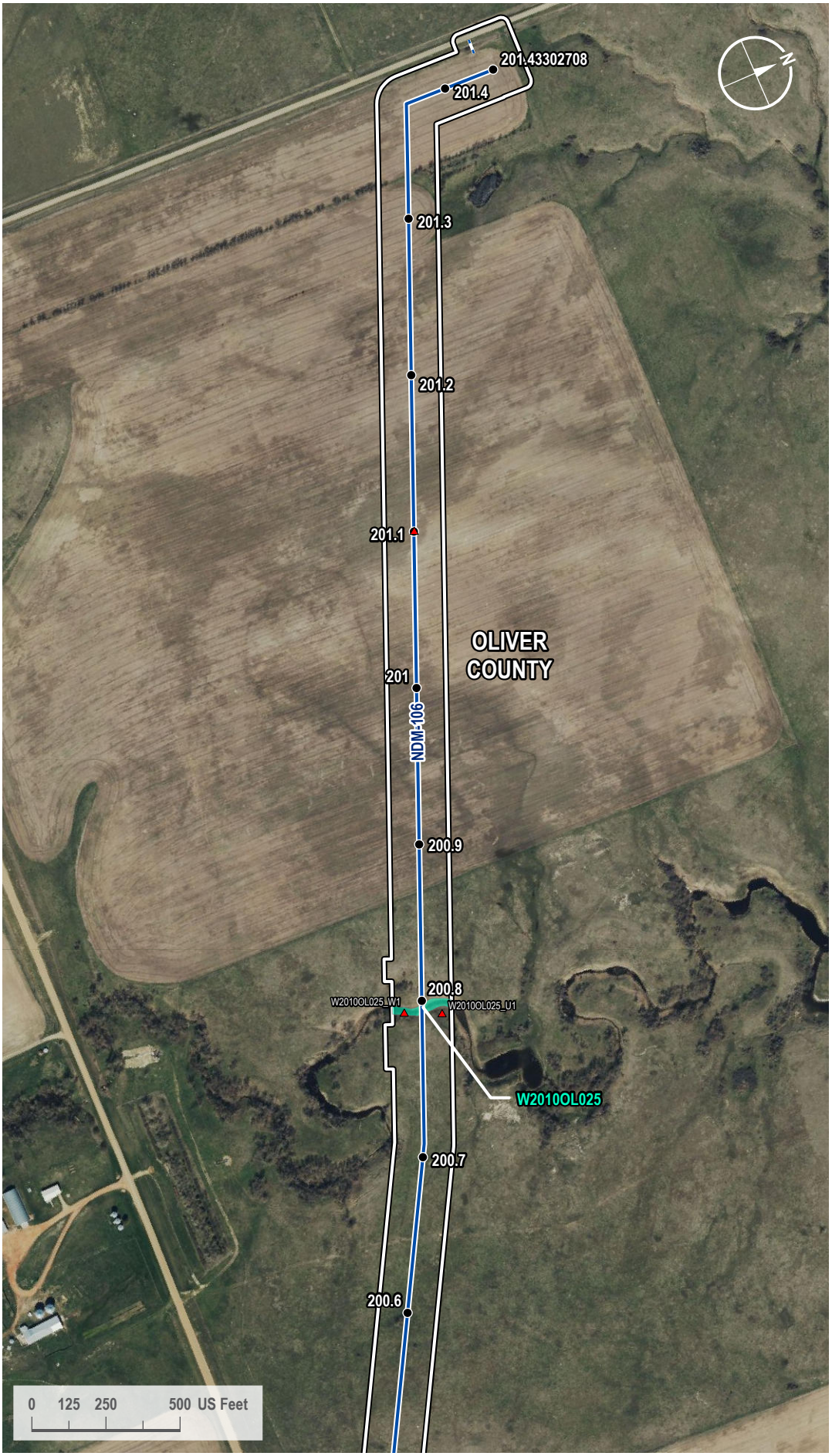

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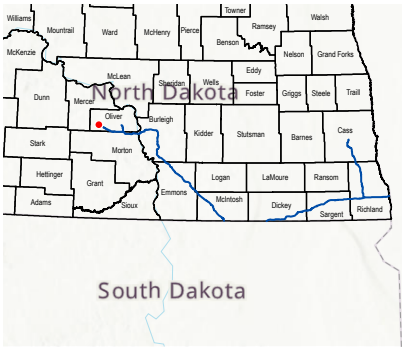

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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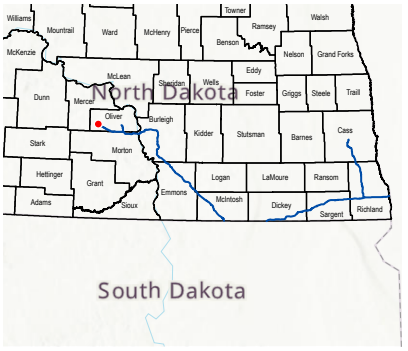
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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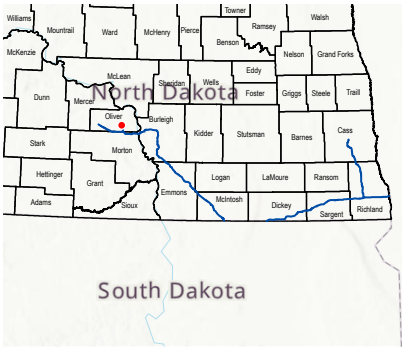

LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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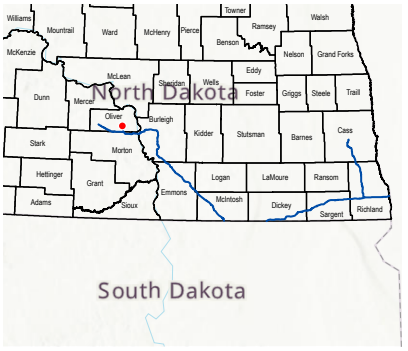

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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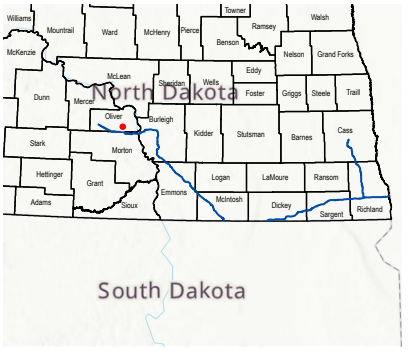

LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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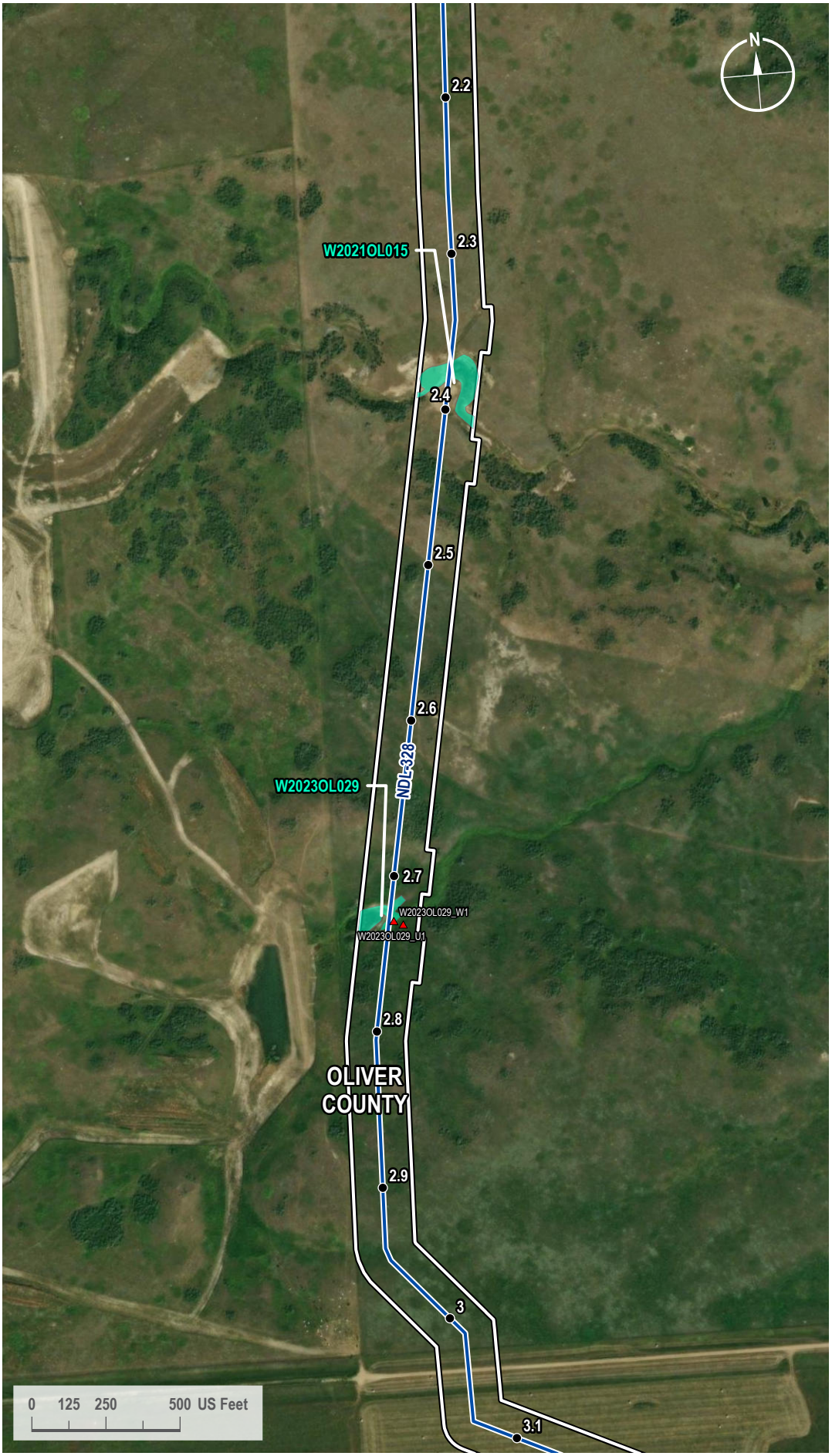

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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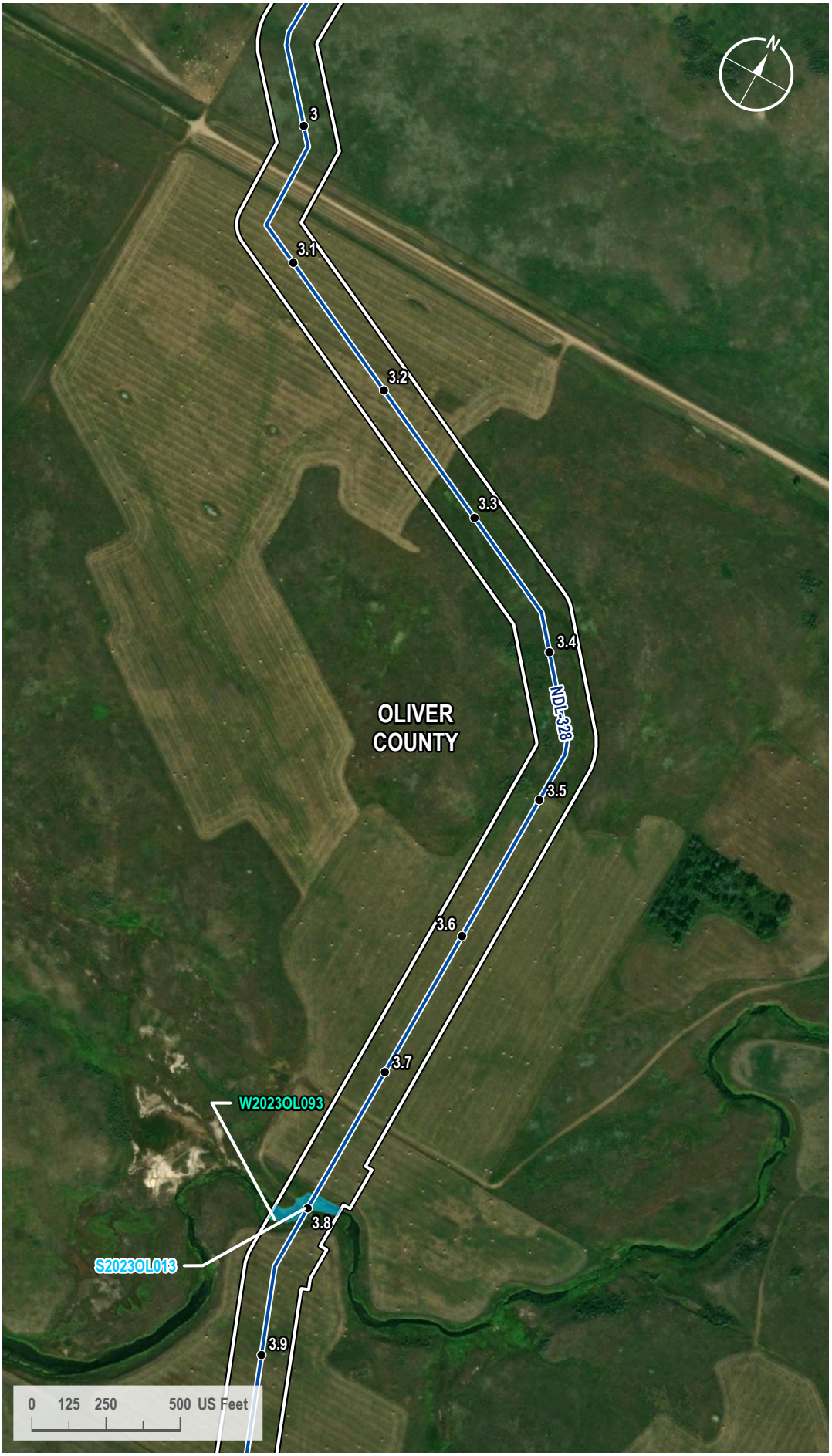

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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LEGEND

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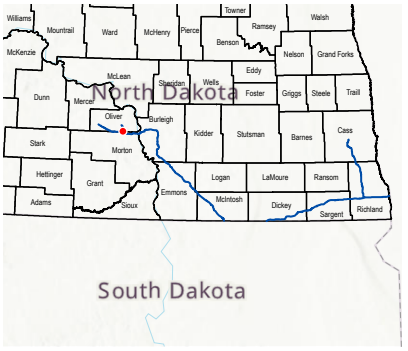
AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title:
Aerial Map

Figure Number:
Appendix A-2

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
433 433 of 433	1001-06-027 Revision 0

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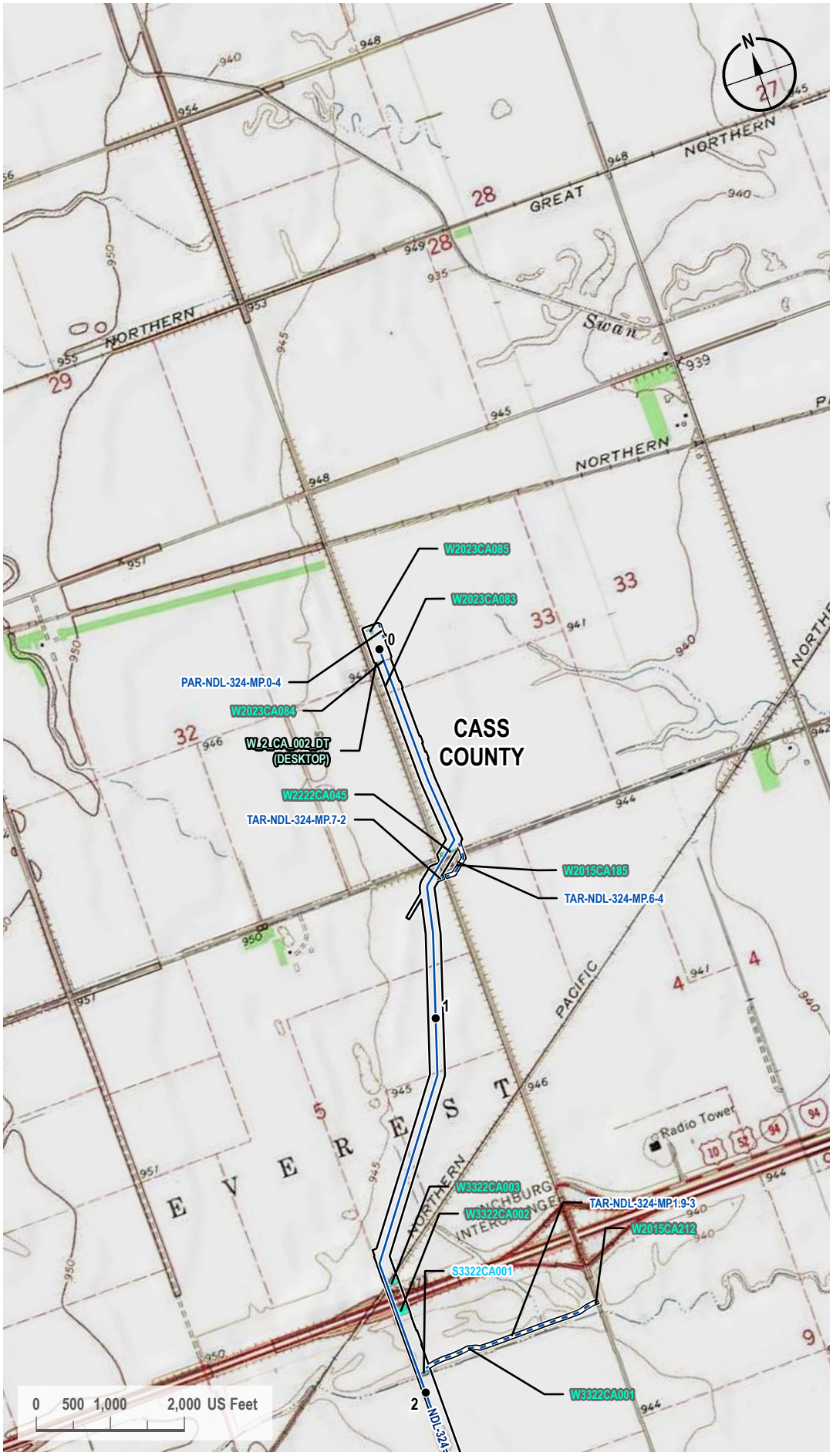
Topographic Maps - A3

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title:
Topographic Map

Figure Number:
Appendix A-3

Scale:	Projection:
1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
1 1 of 104	1001-06-027 Revision 0

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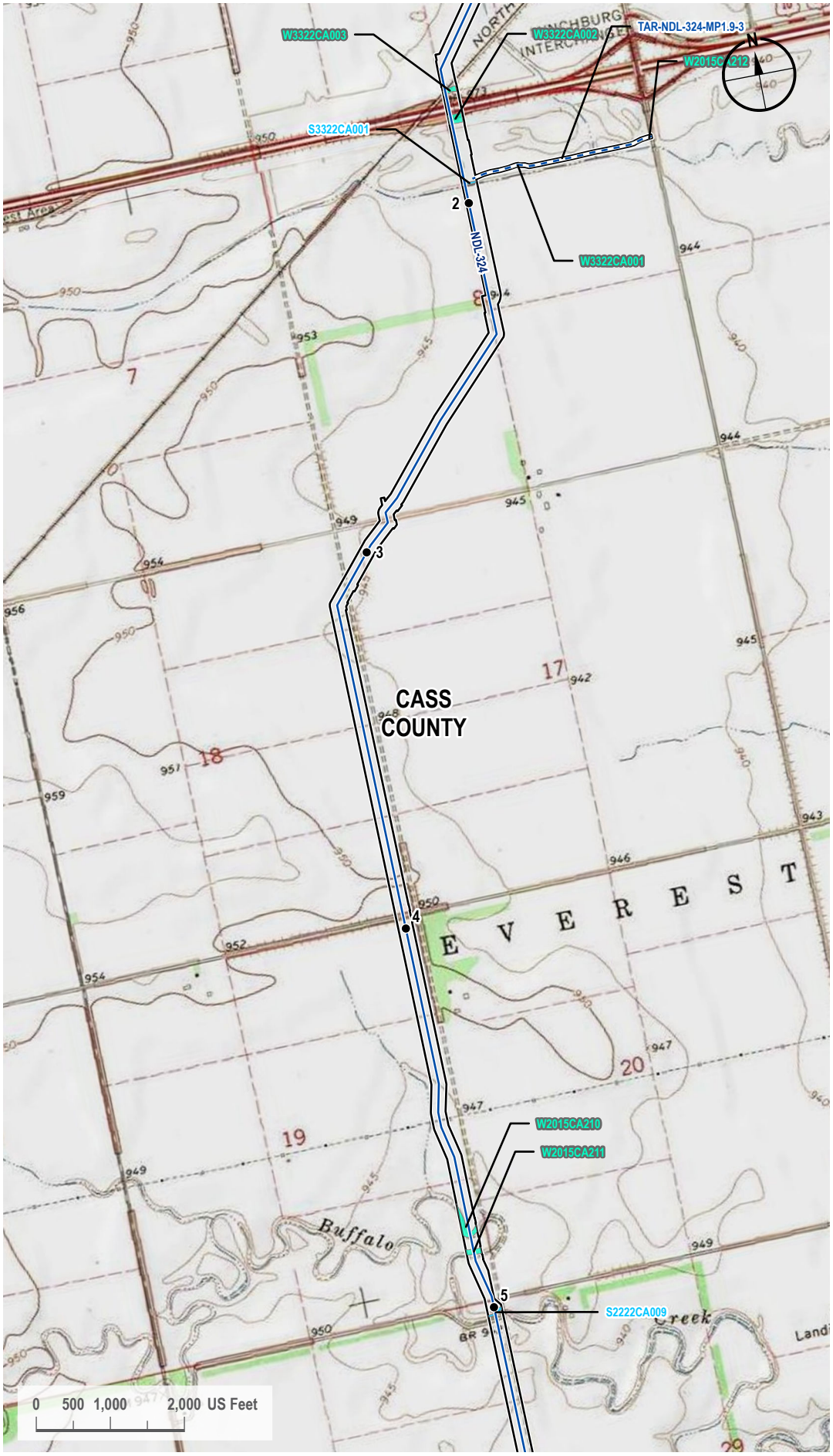

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Appendix A-3

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Sheet:	Drawing Number:
2 2 of 104	1001-06-027 Revision 0

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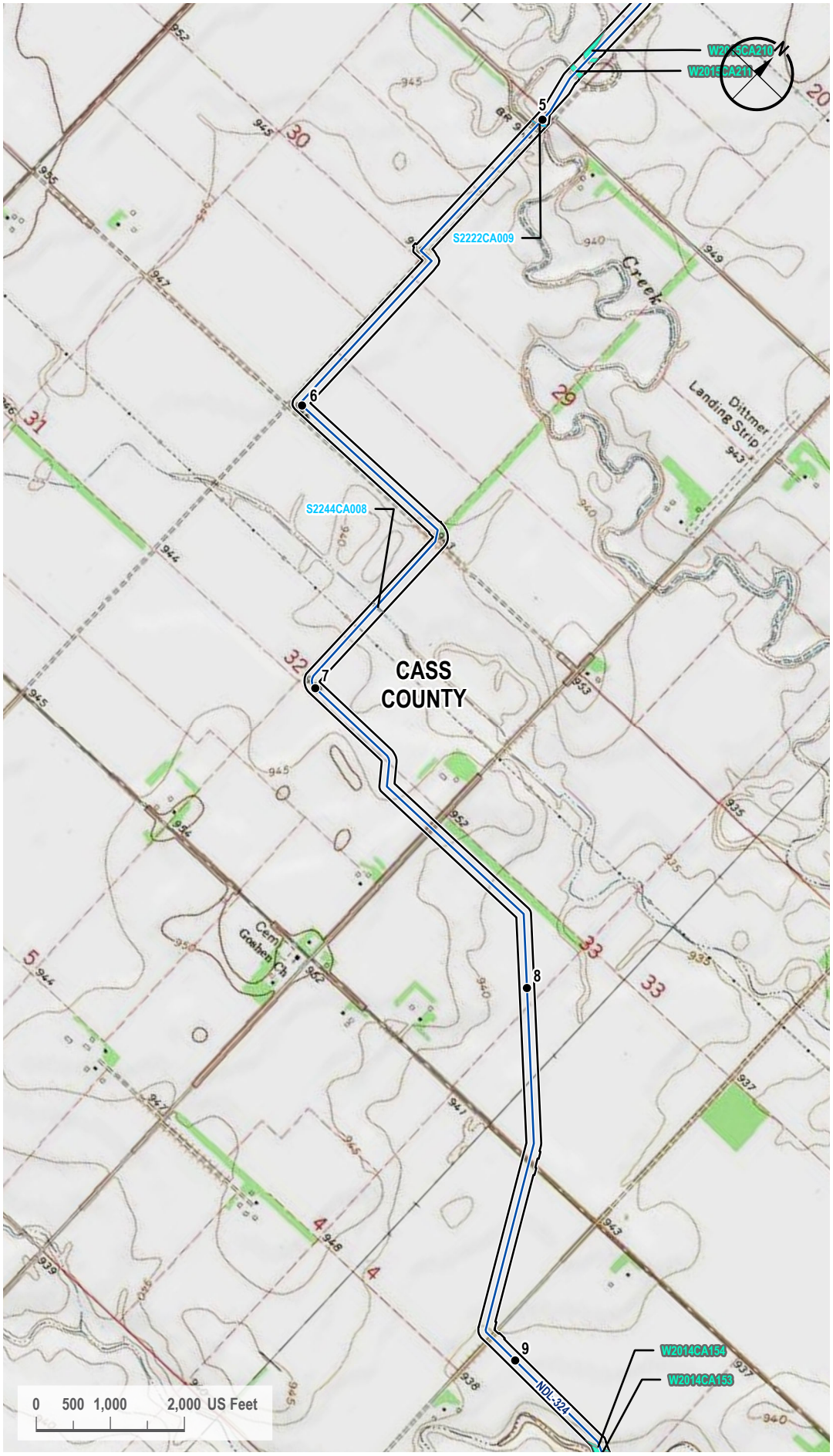

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Appendix A-3

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3 3 of 104	1001-06-027 Revision 0

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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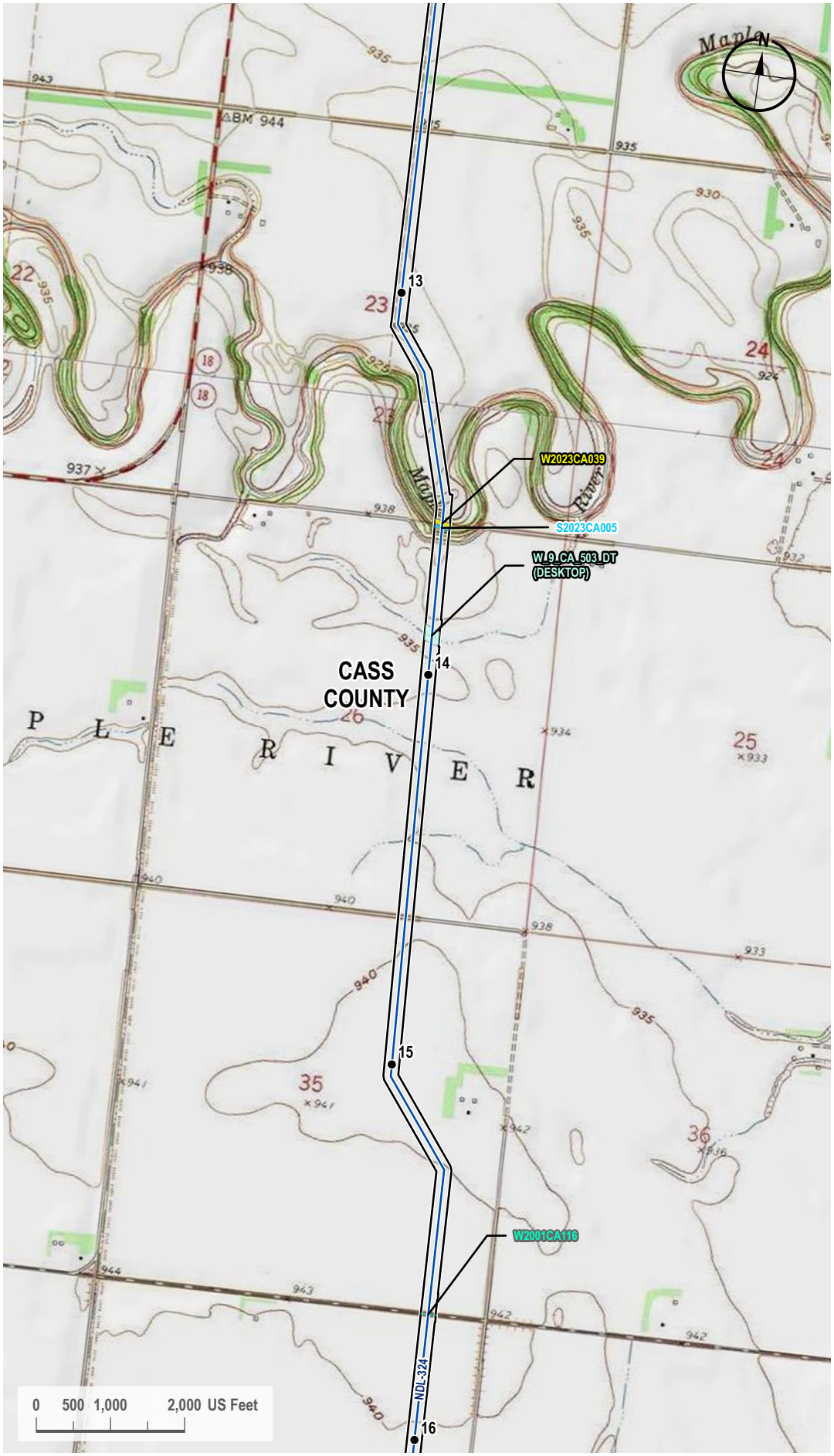

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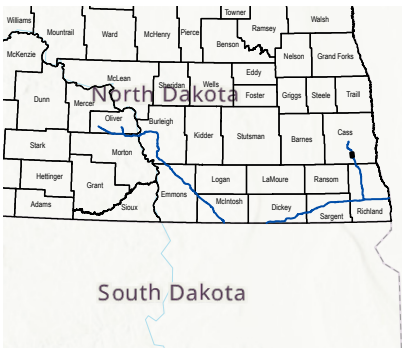

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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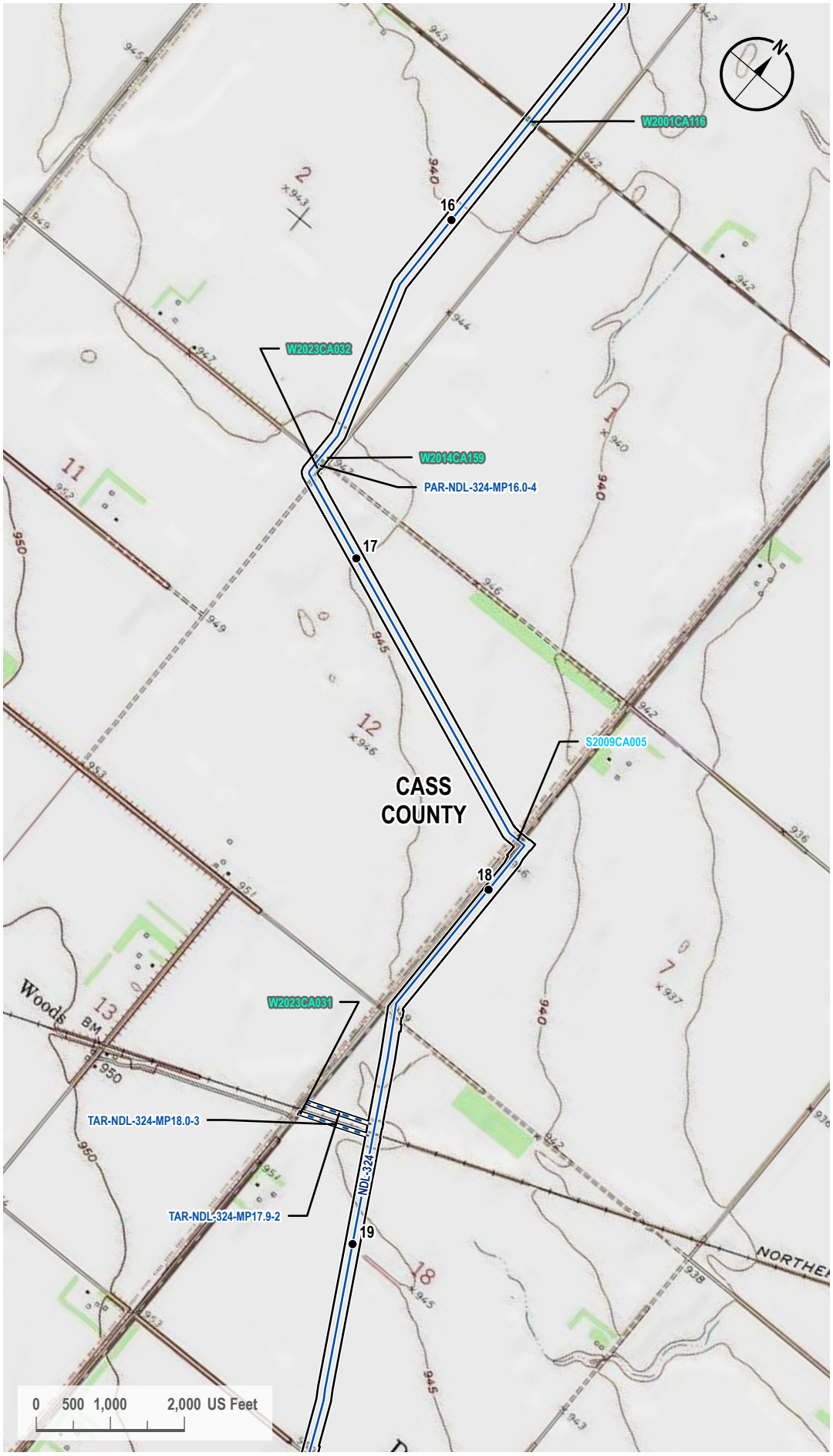

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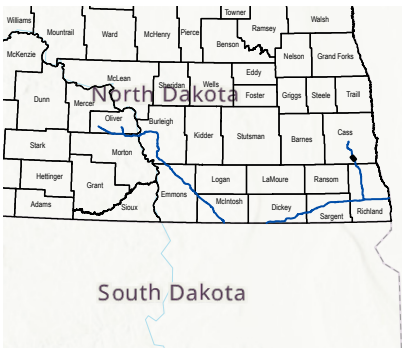

LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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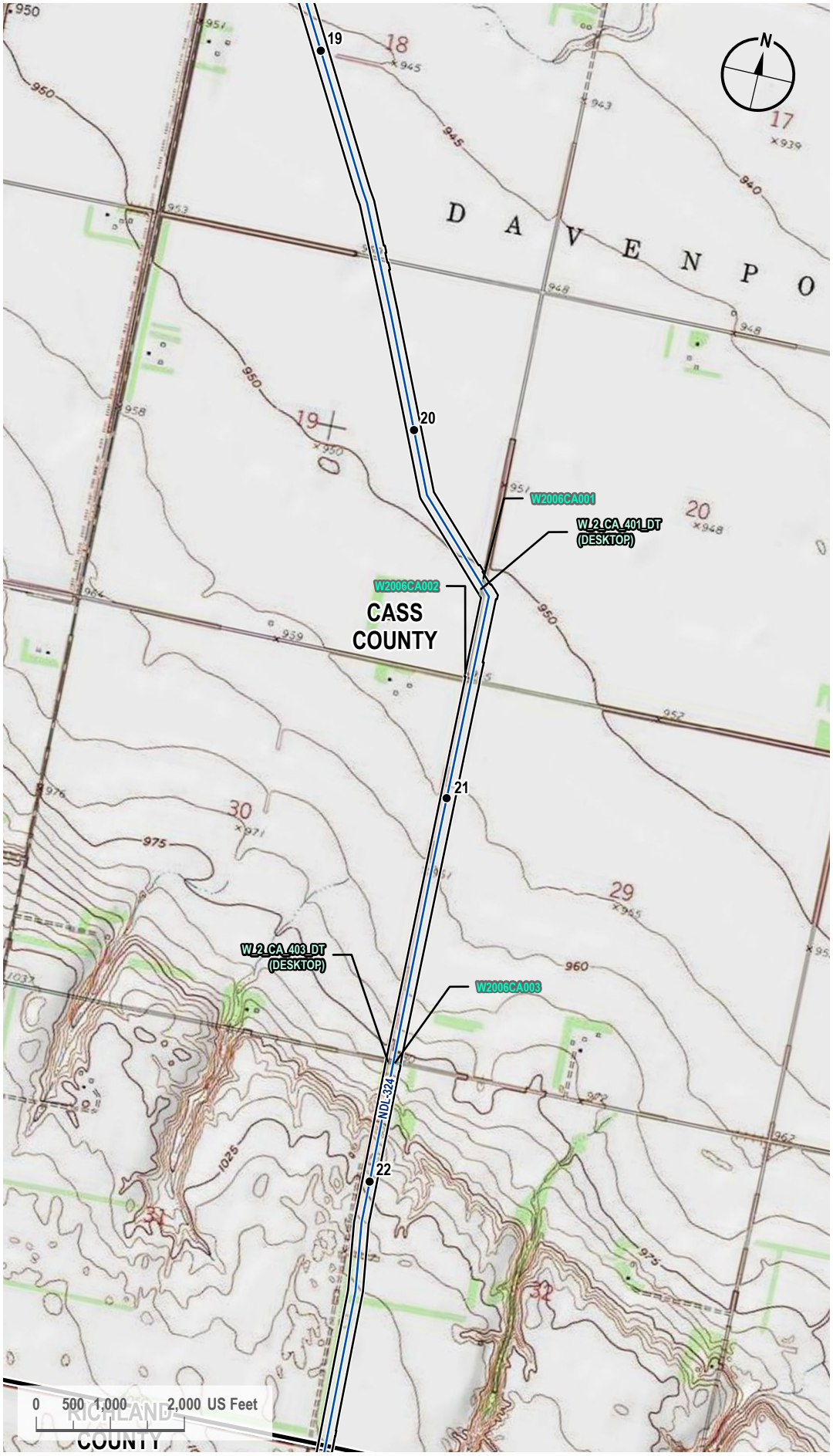

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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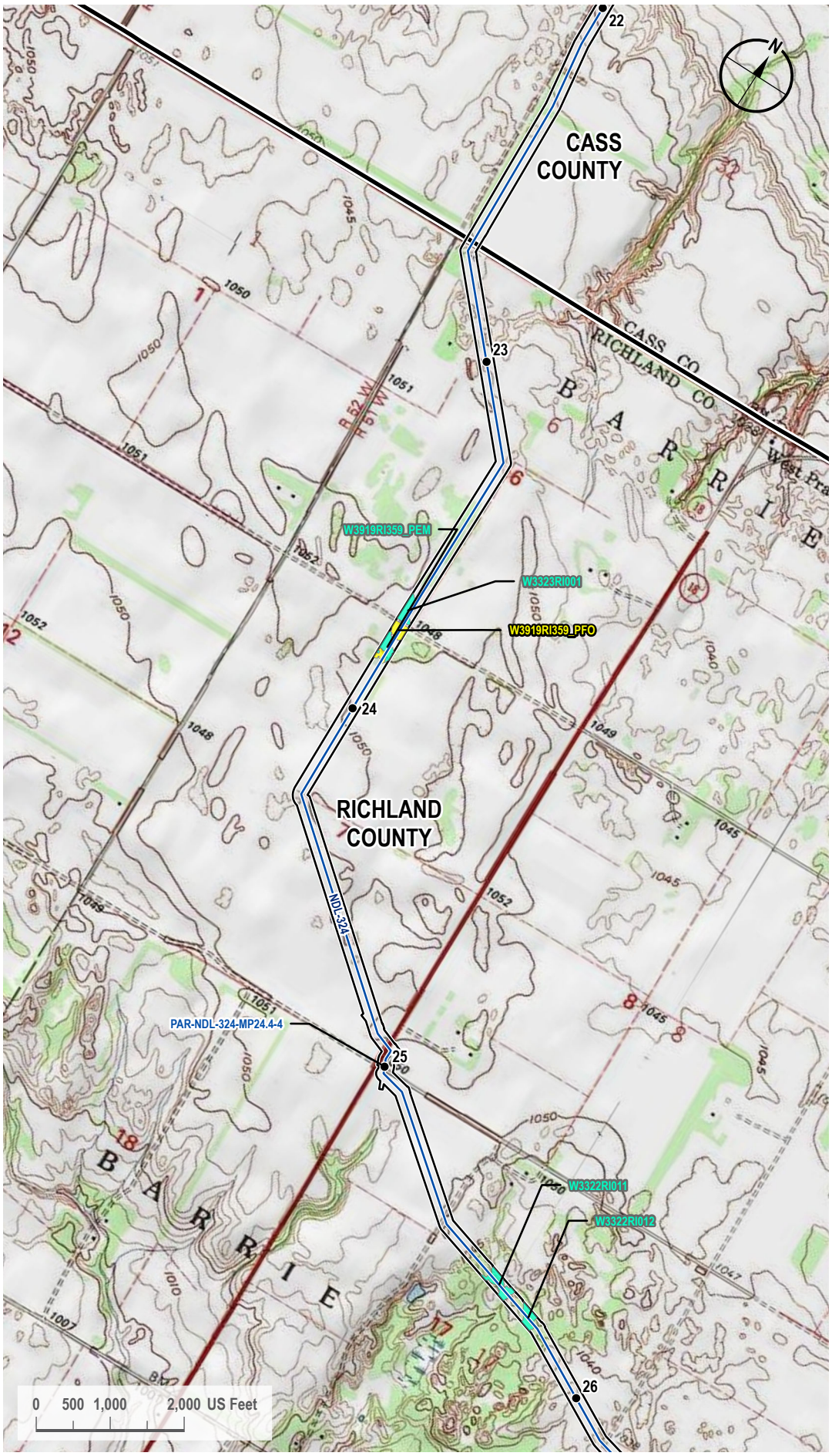

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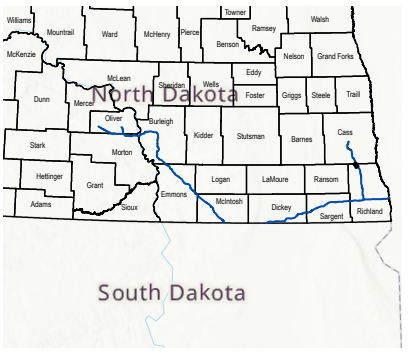

LEGEND

- Milepost
- Proposed Route
- Access Road
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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Topographic Map

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Appendix A-3

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8 8 of 104	1001-06-027 Revision 0

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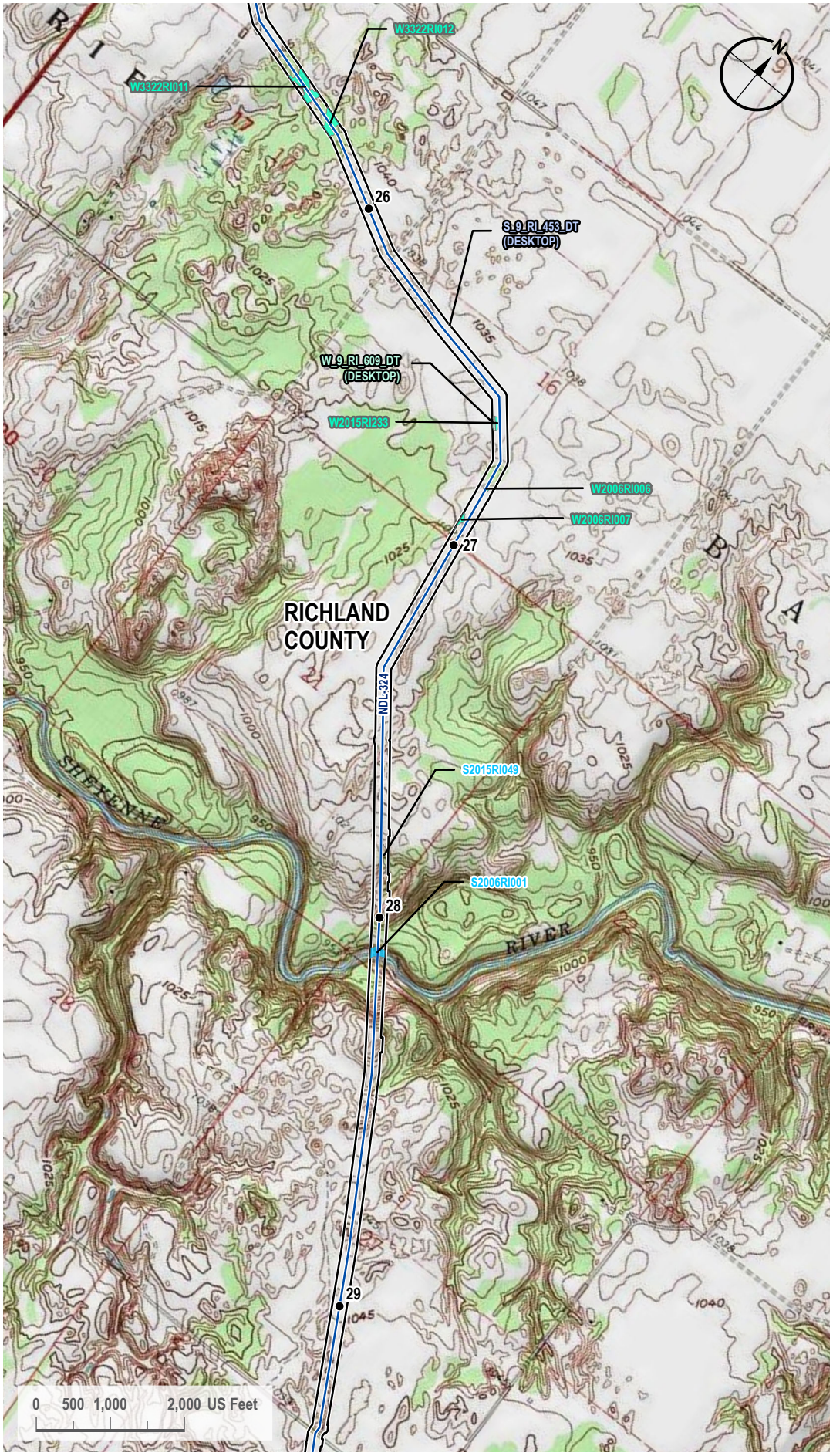

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title:
Topographic Map

Figure Number:
Appendix A-3

Scale:	Projection:
1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
9 9 of 104	1001-06-027 Revision 0

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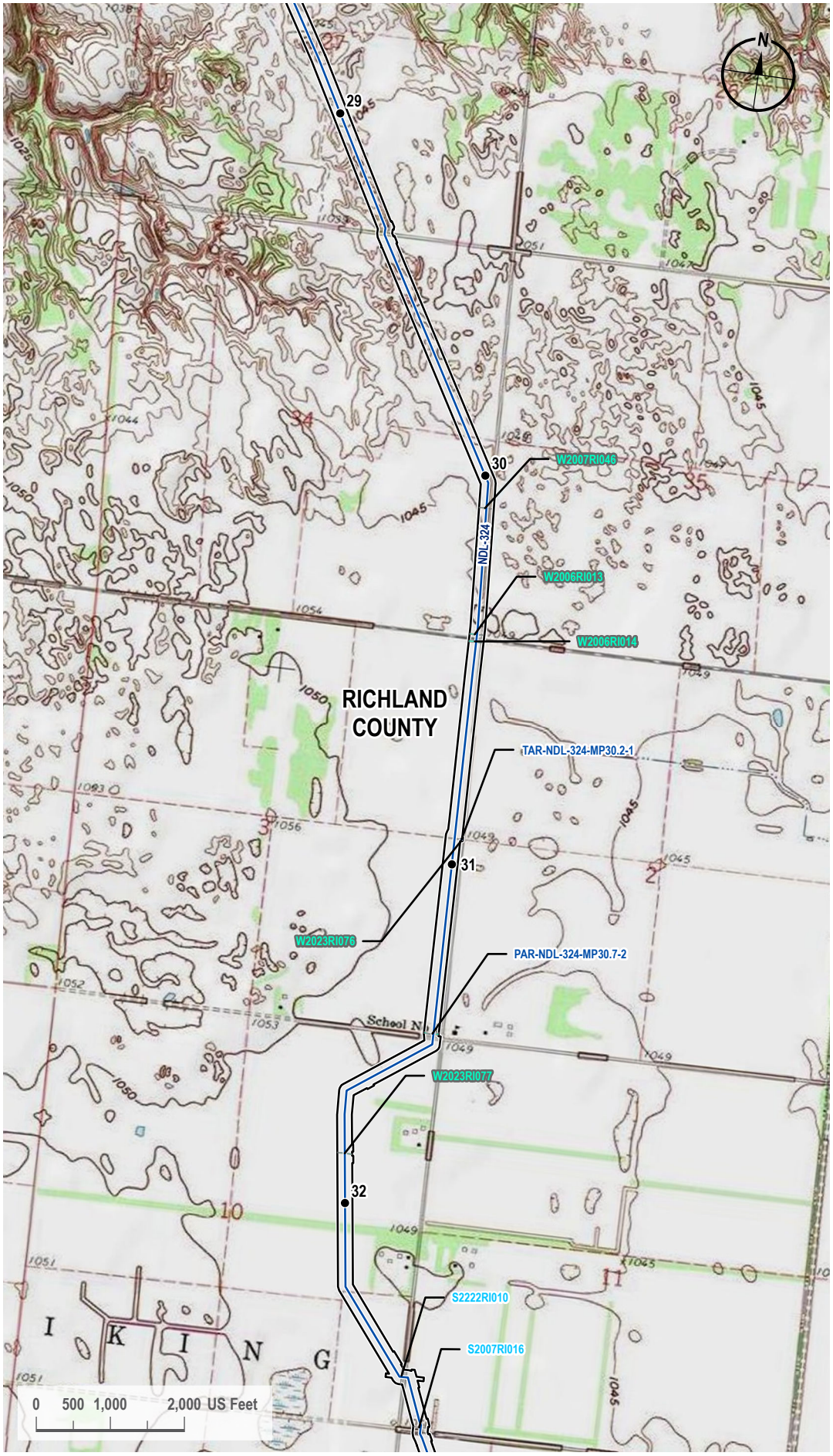

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Appendix A-3

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10 10 of 104	1001-06-027 Revision 0

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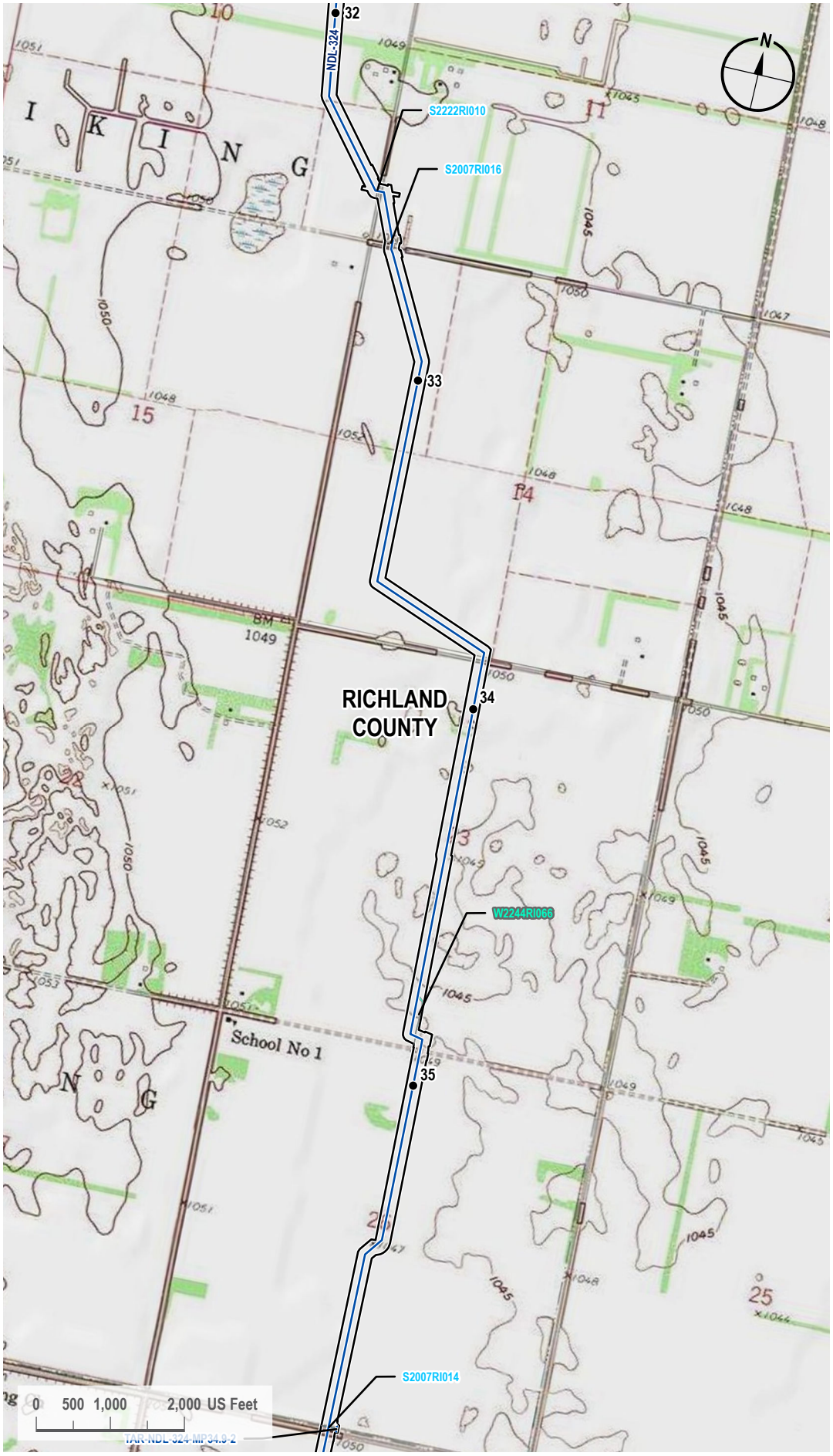

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Appendix A-3

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11 11 of 104	1001-06-027 Revision 0

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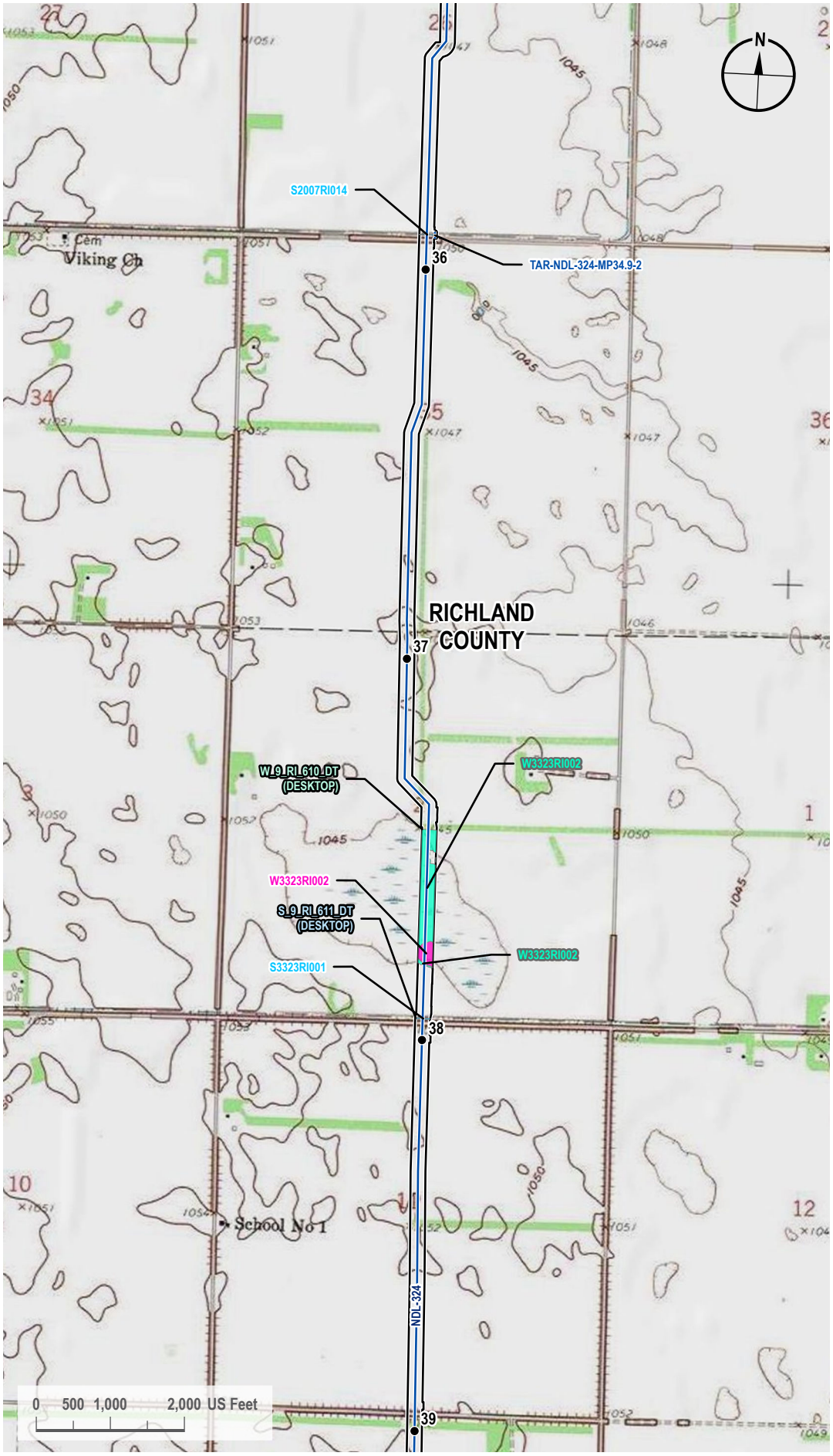

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Scrub-Shrub Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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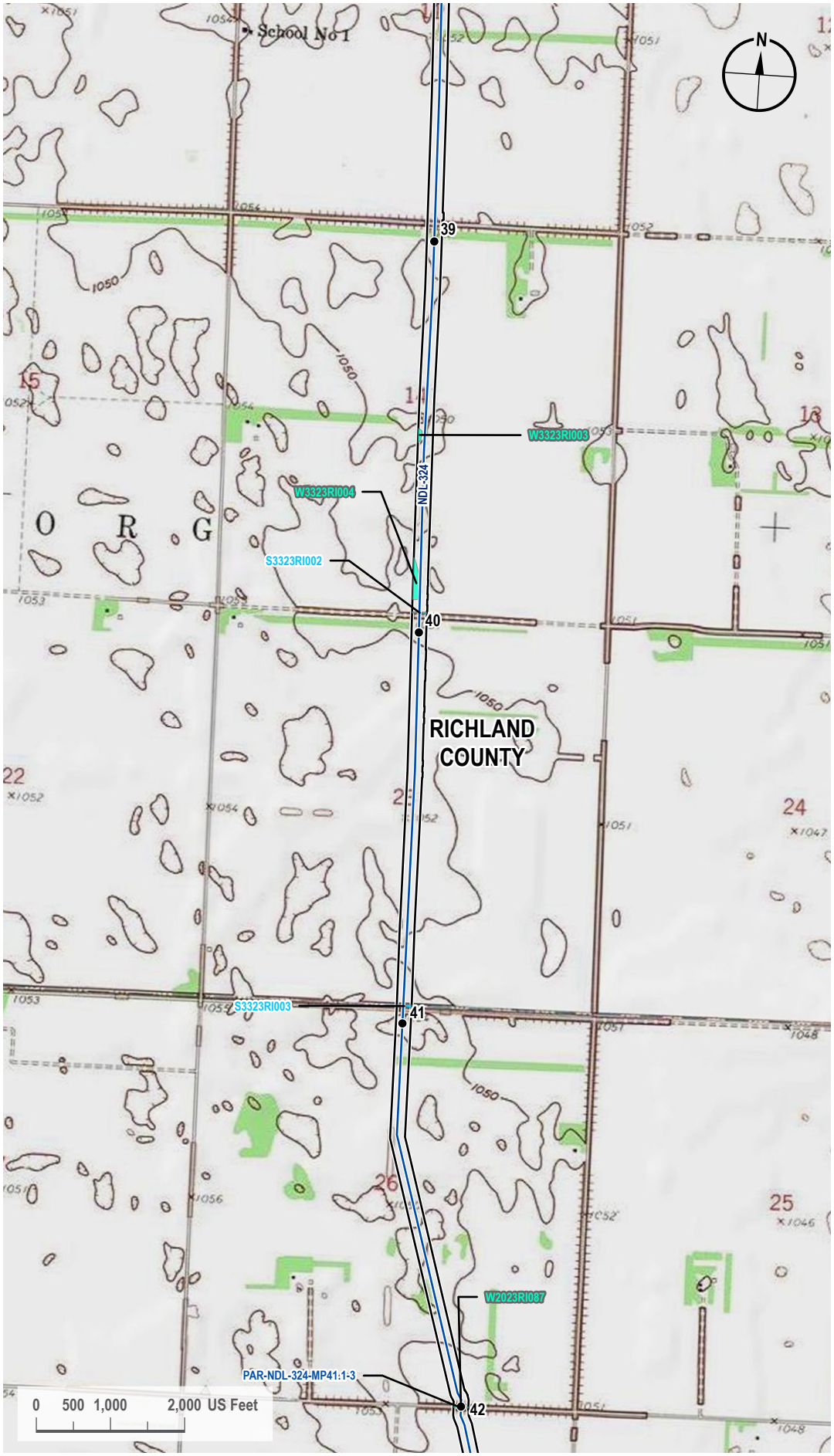

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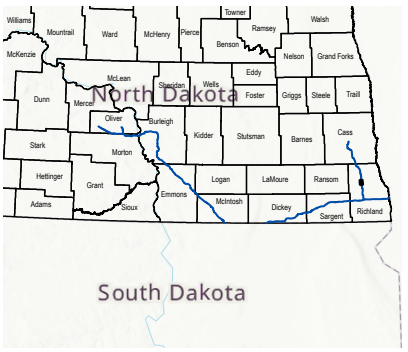

LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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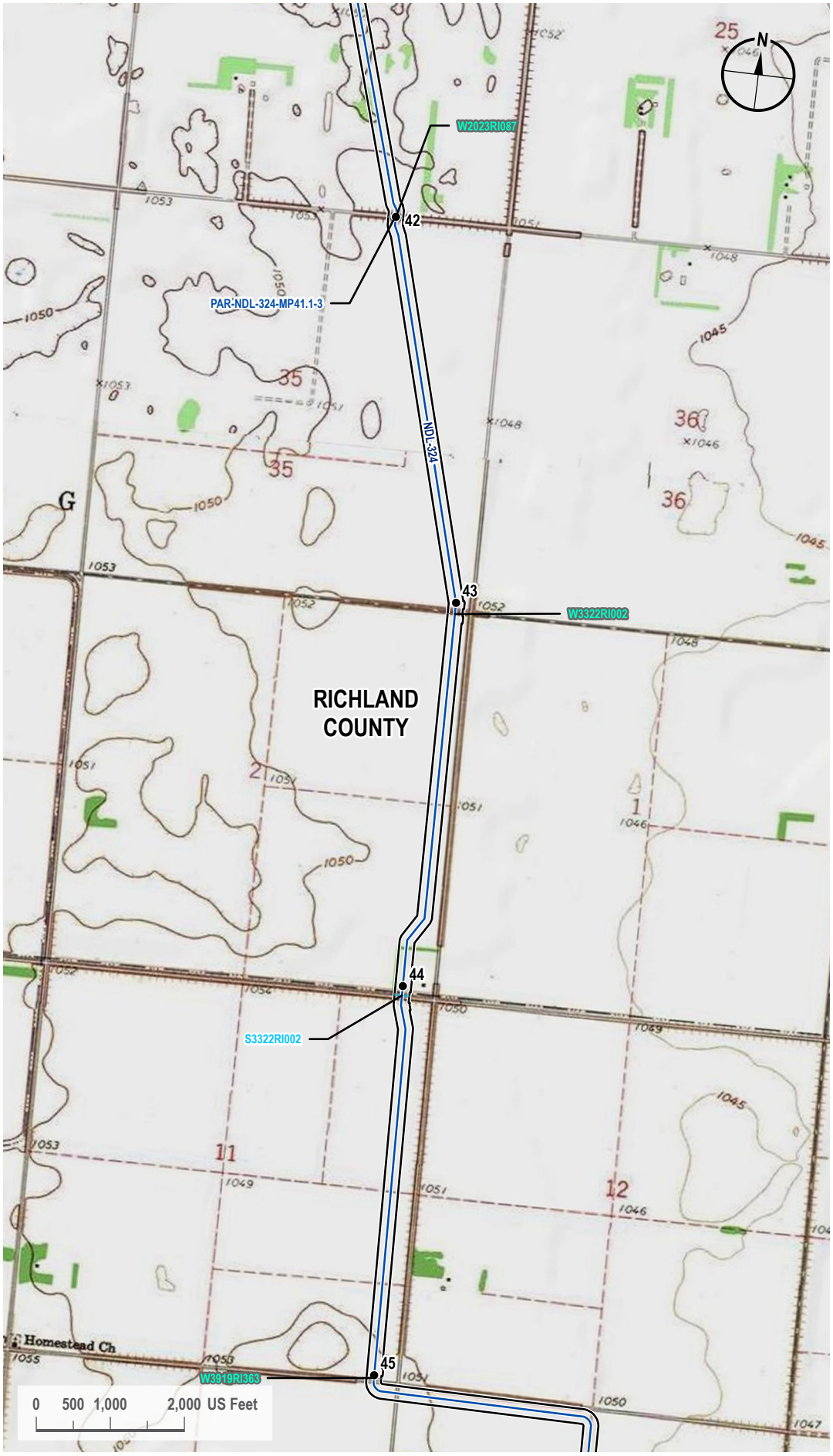

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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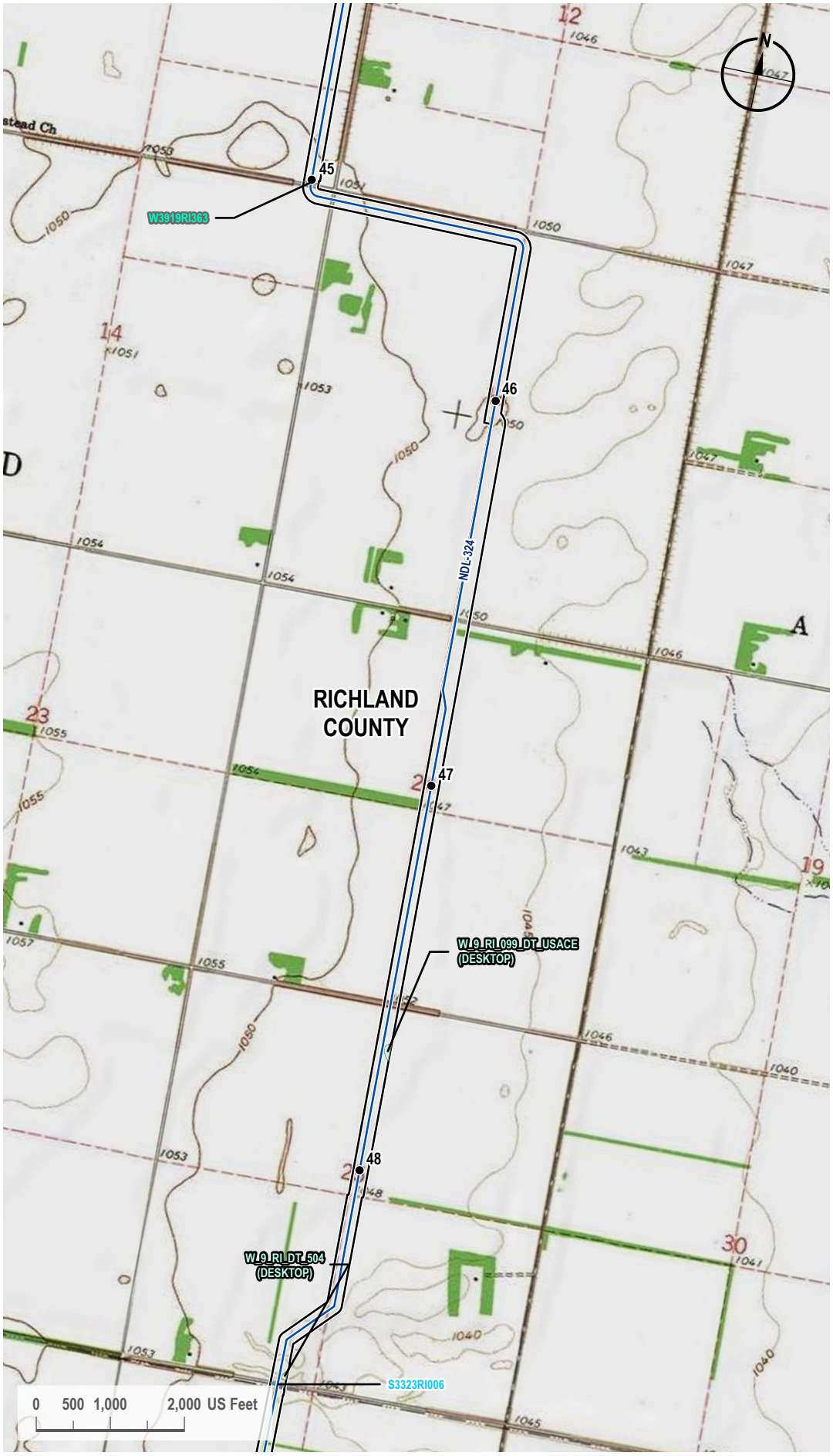

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
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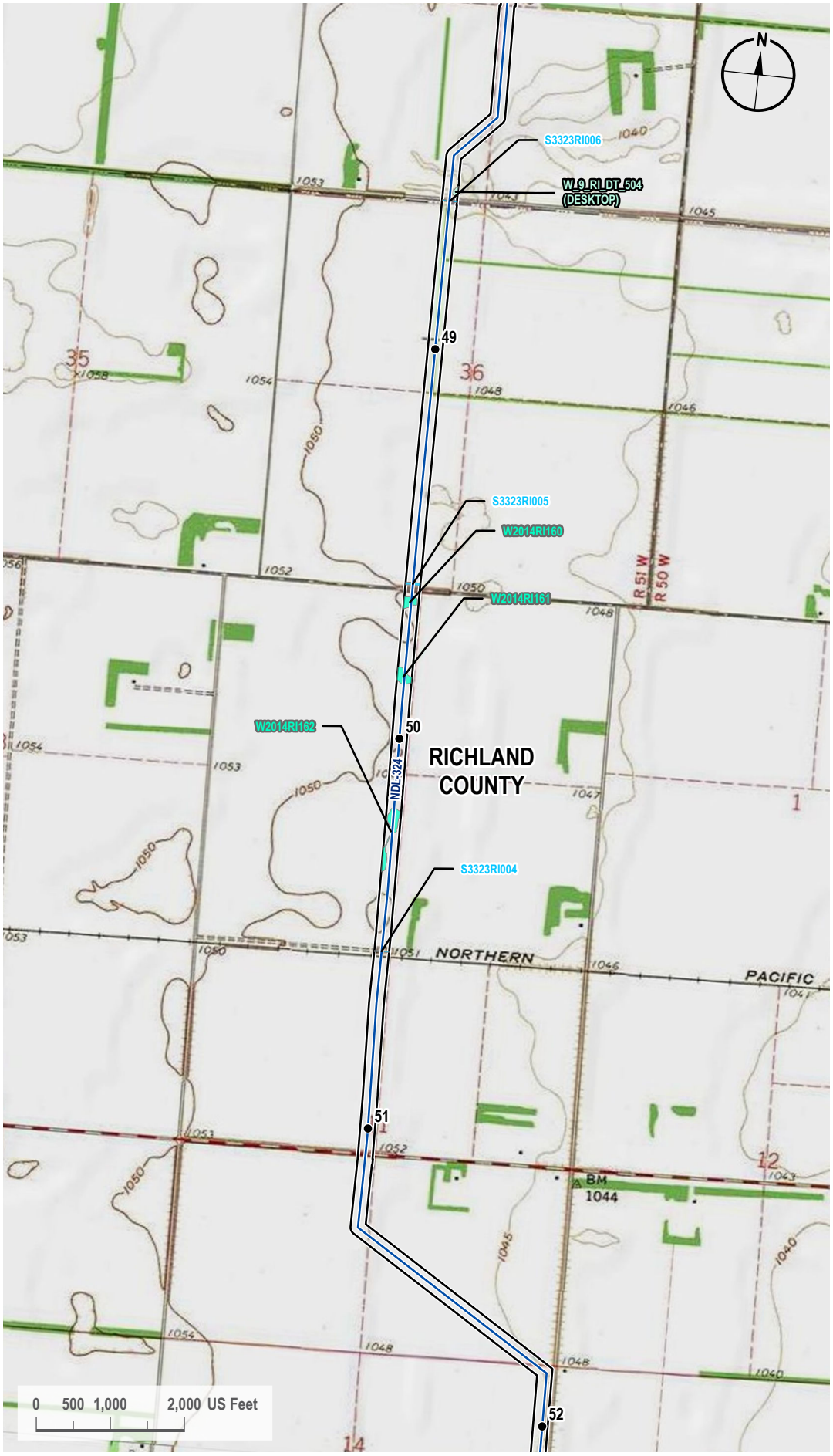
TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title: Topographic Map

Figure Number: Appendix A-3

Scale:	Projection:
1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 16 16 of 104	**Drawing Number:** 1001-06-027 Revision 0

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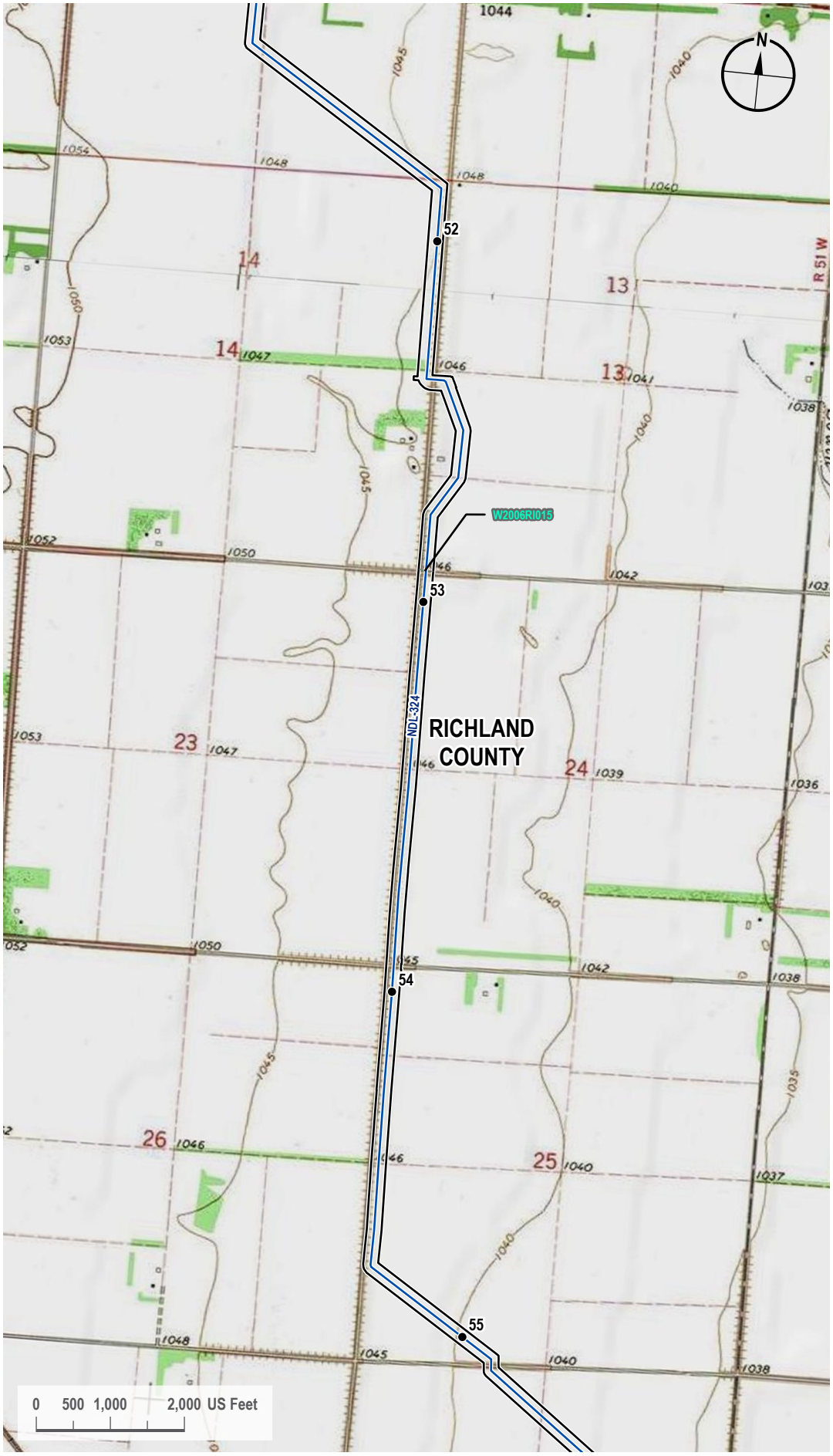

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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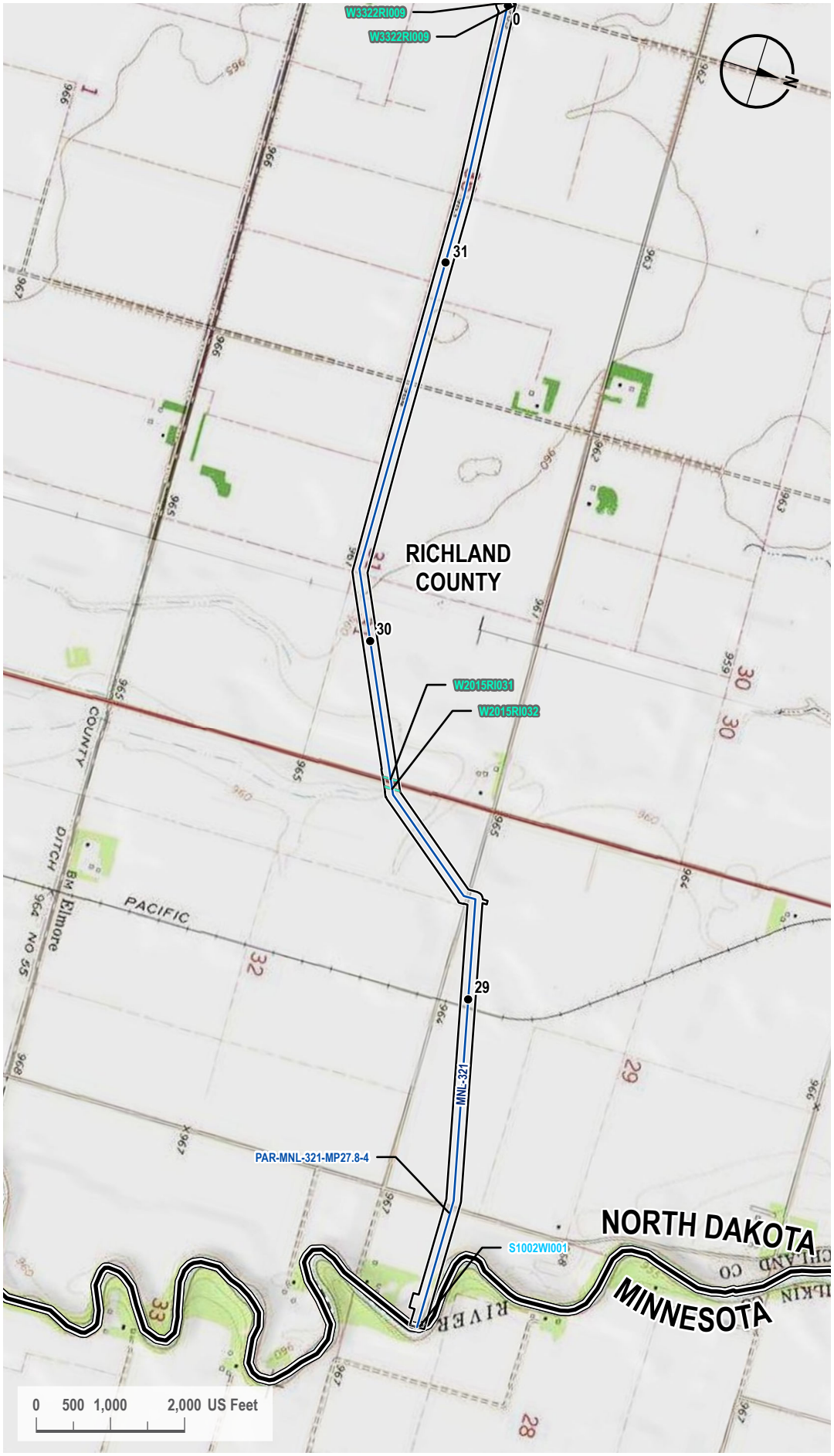

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- State Line
- County Line
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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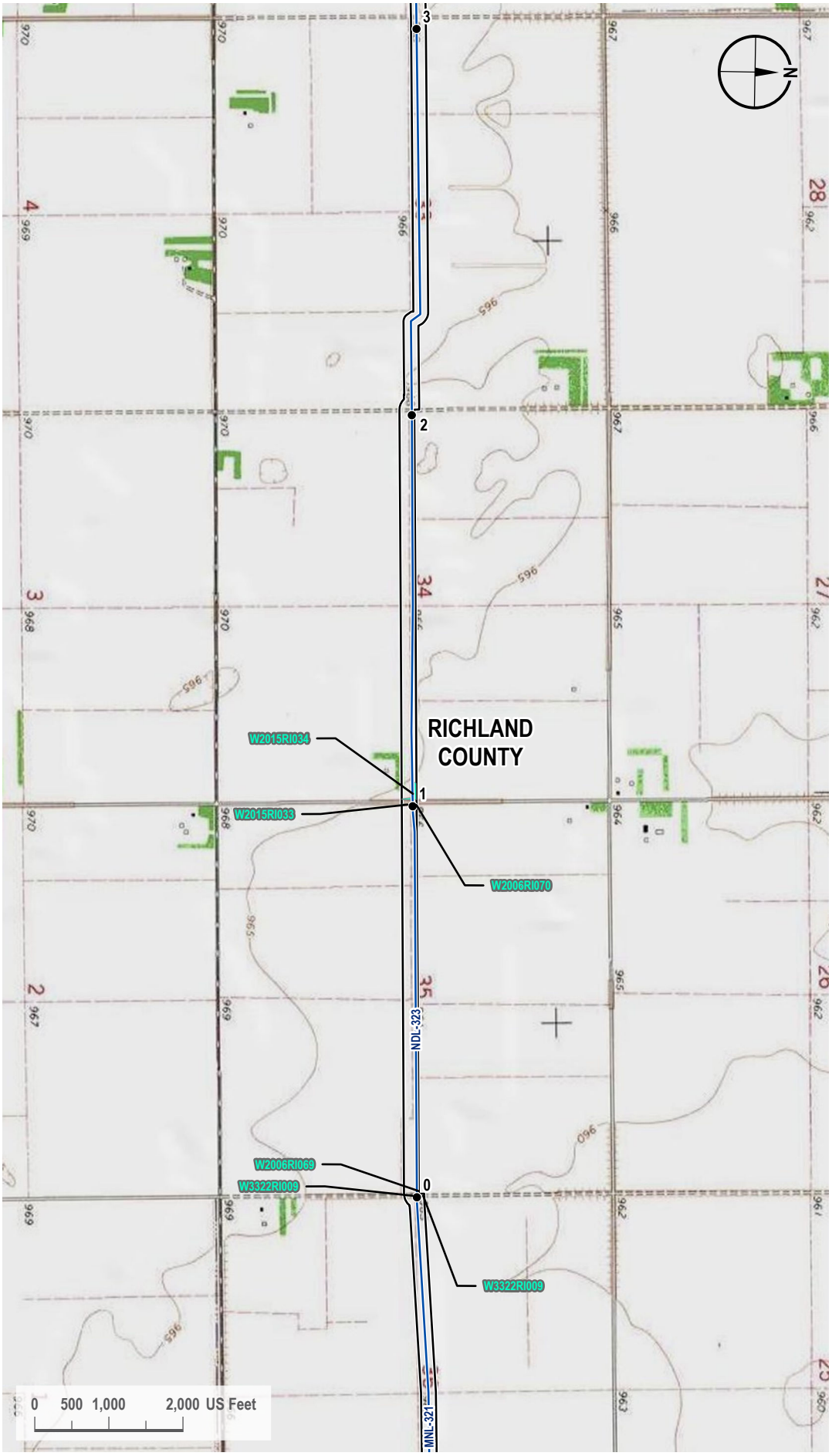

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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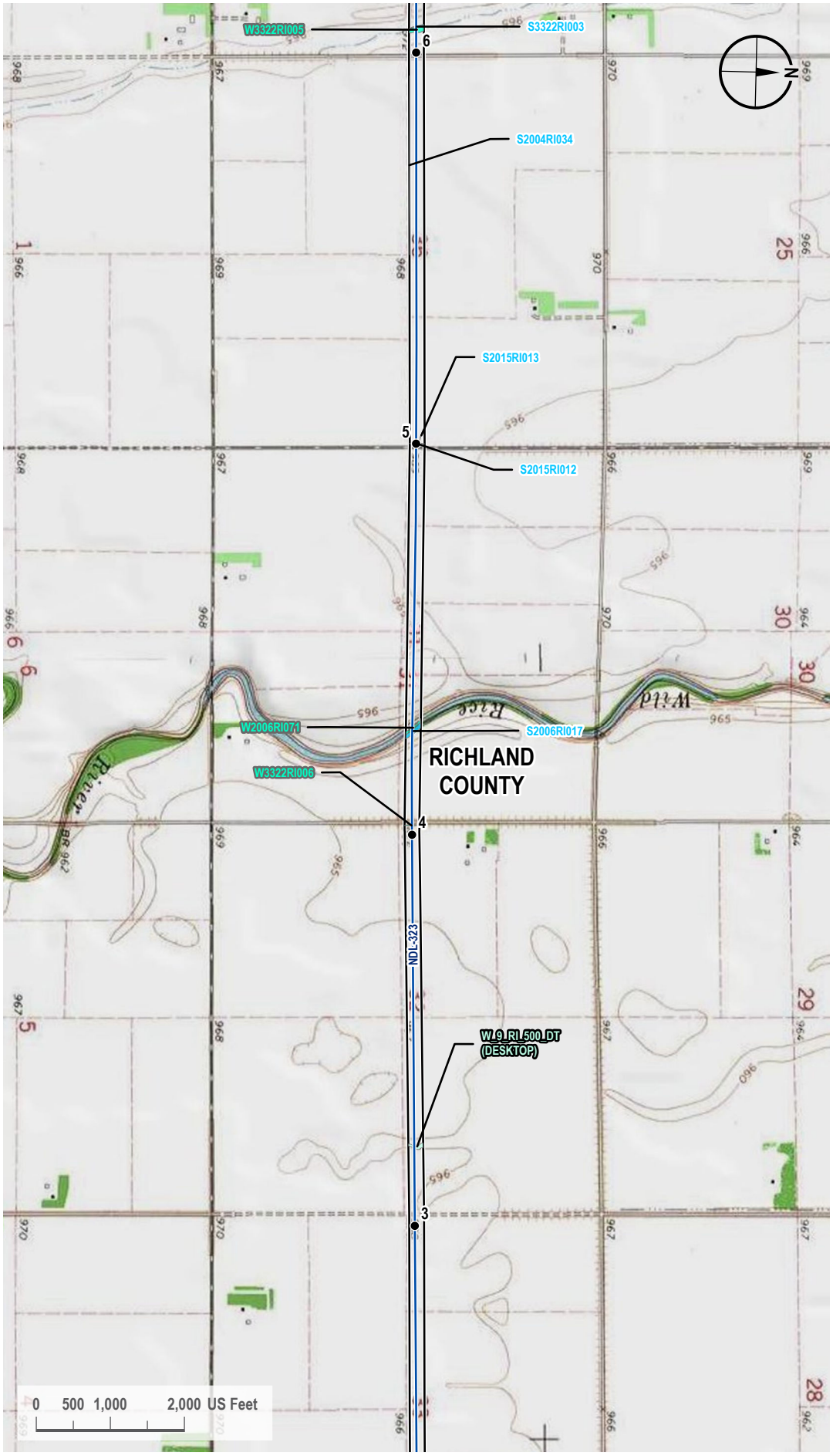

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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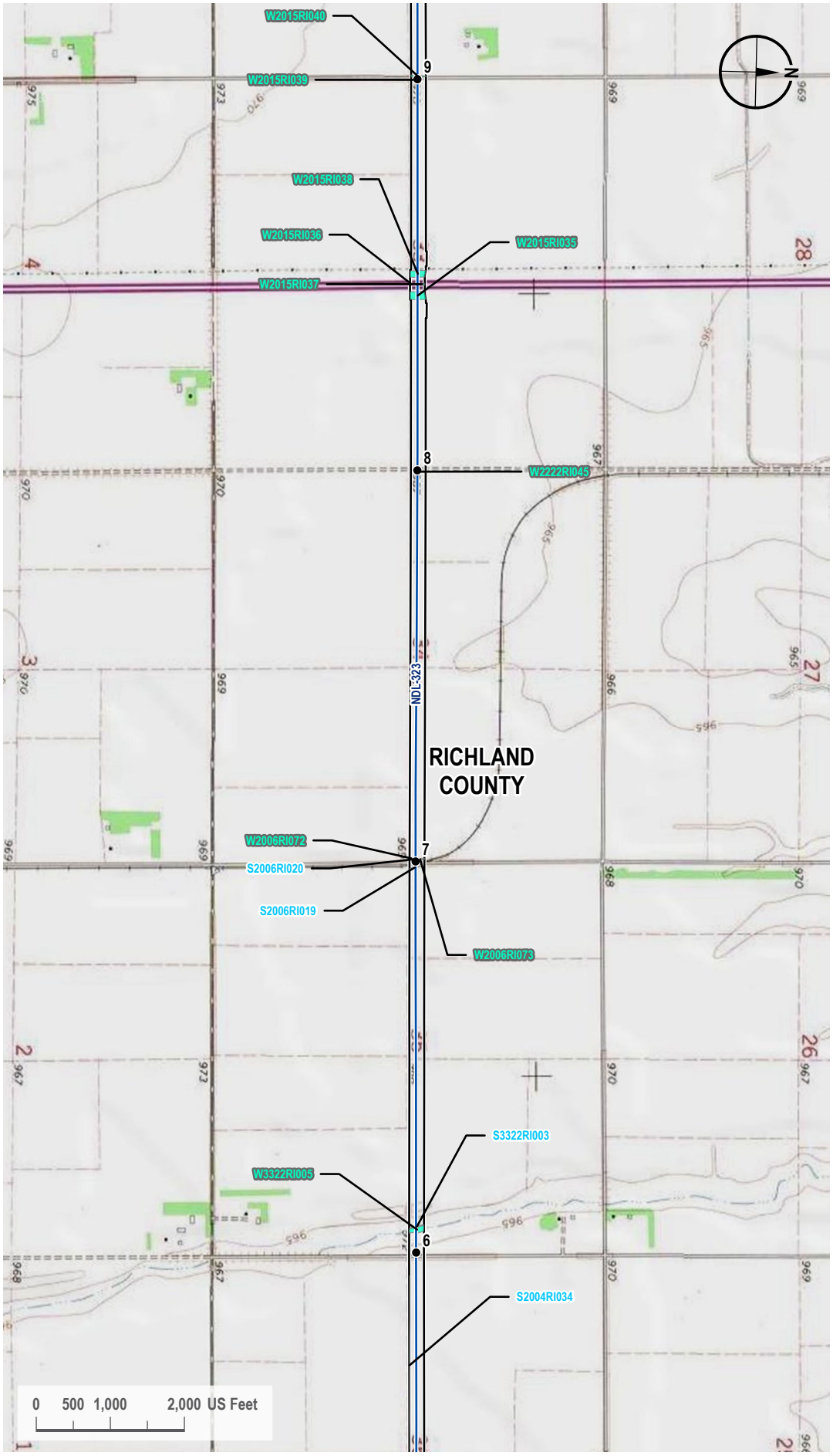

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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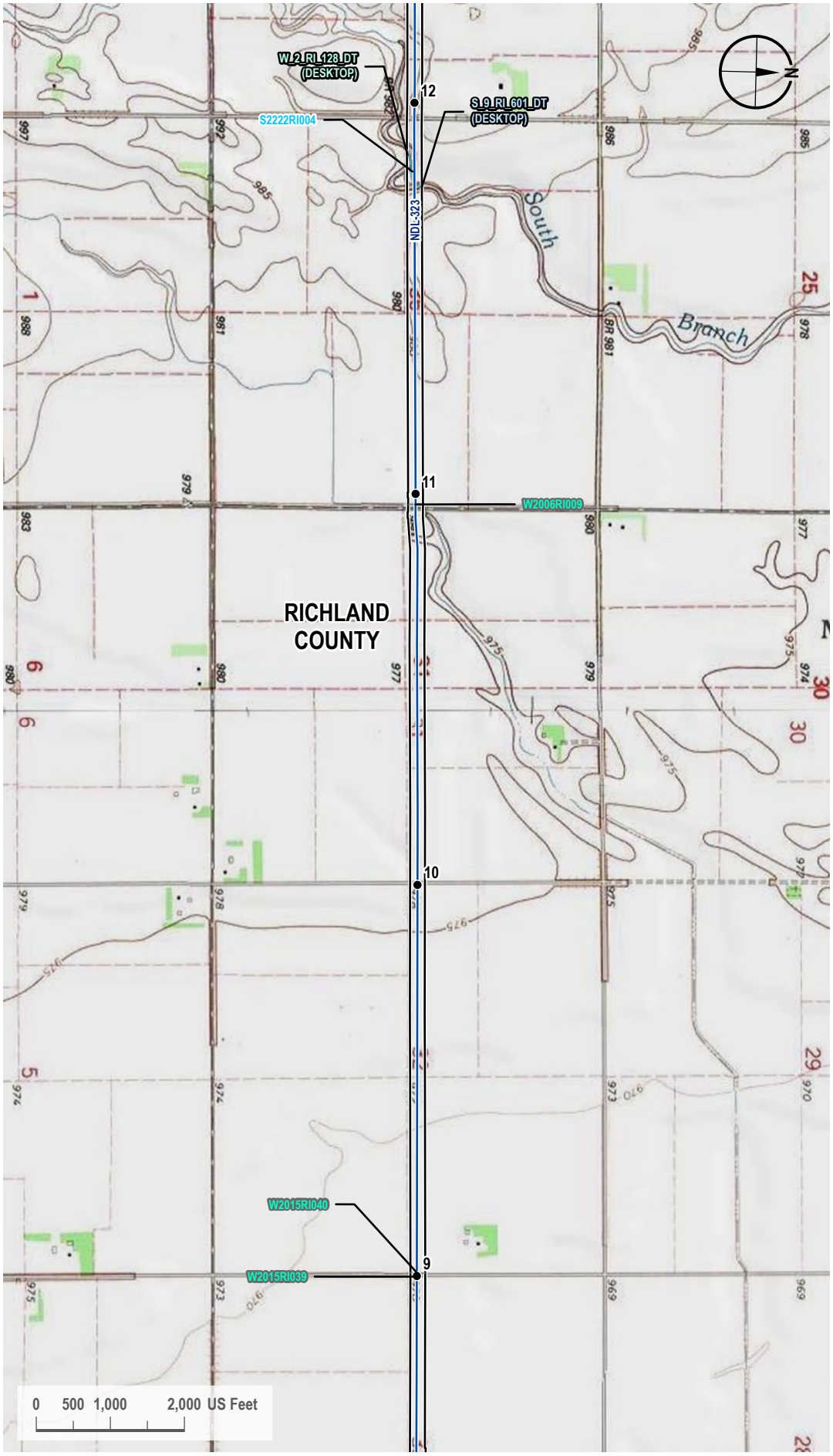

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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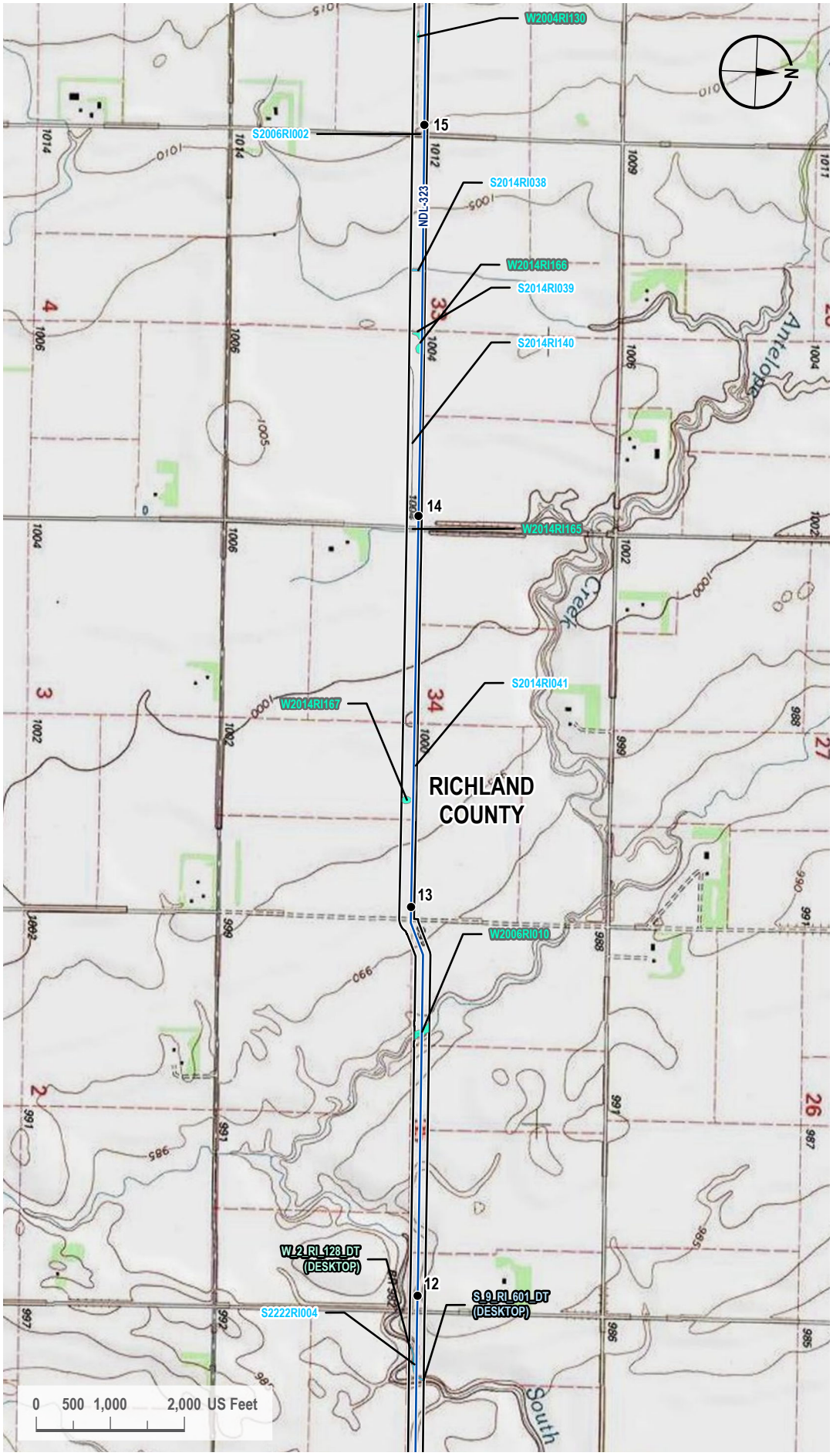

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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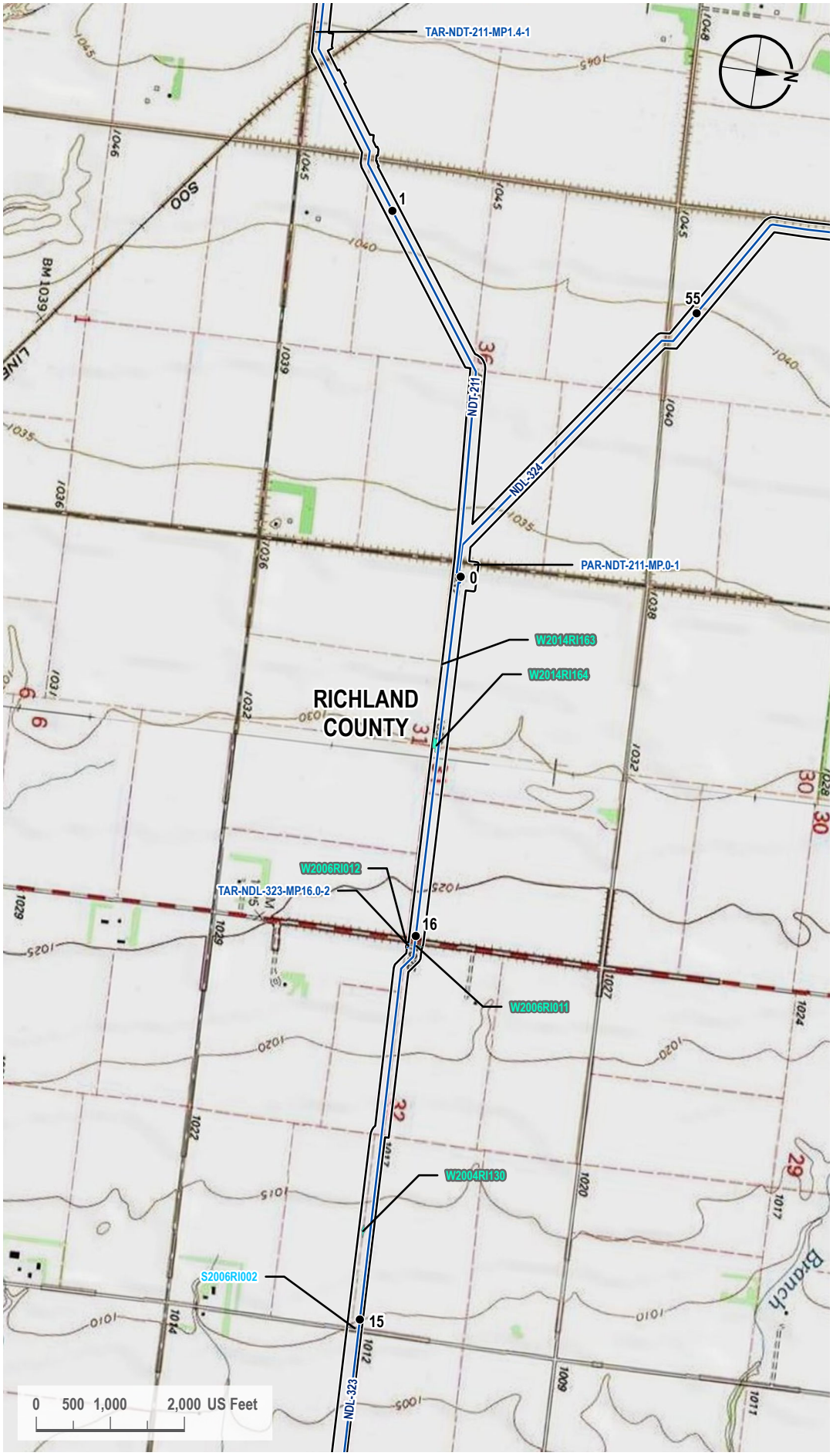

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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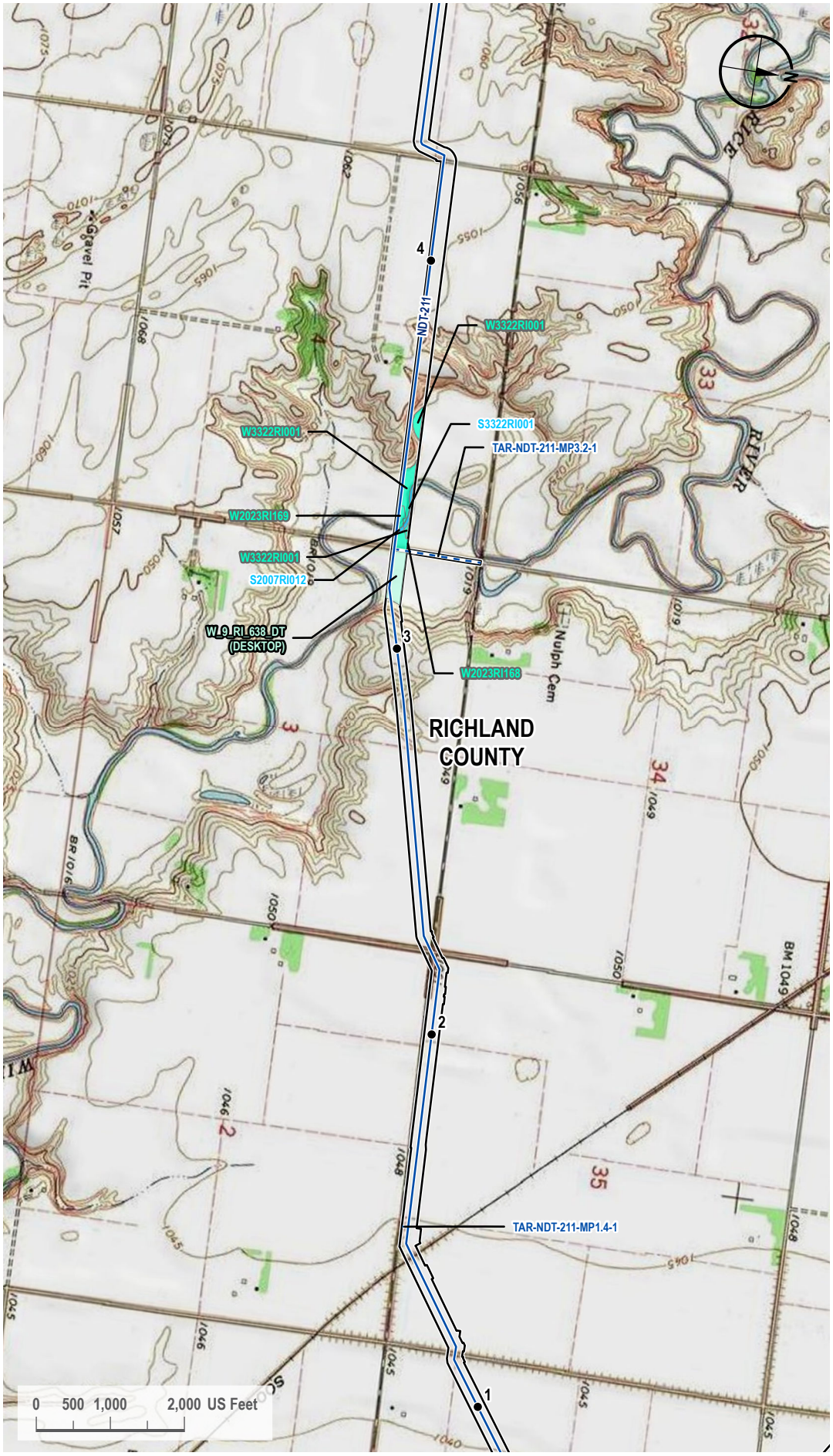

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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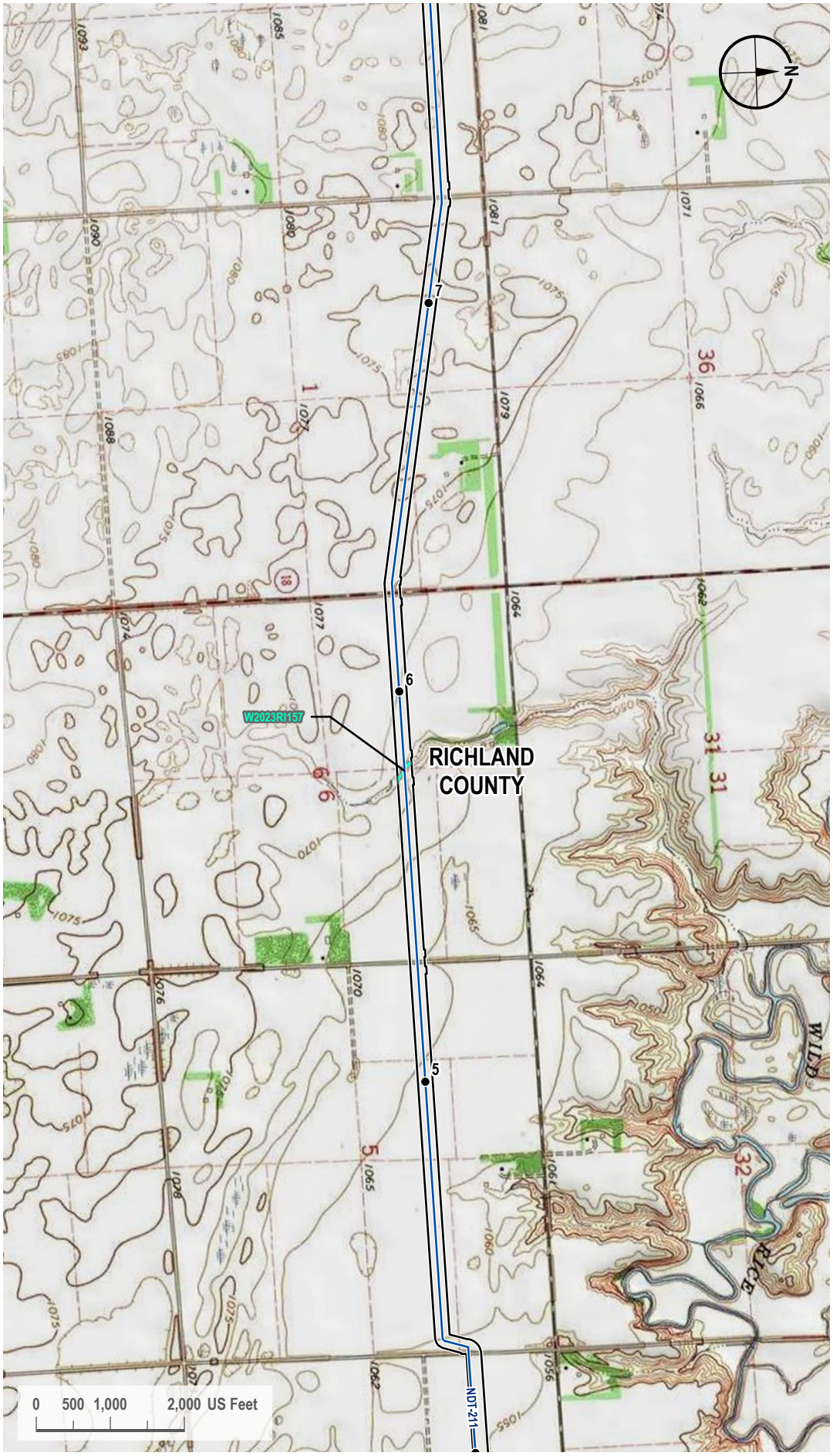

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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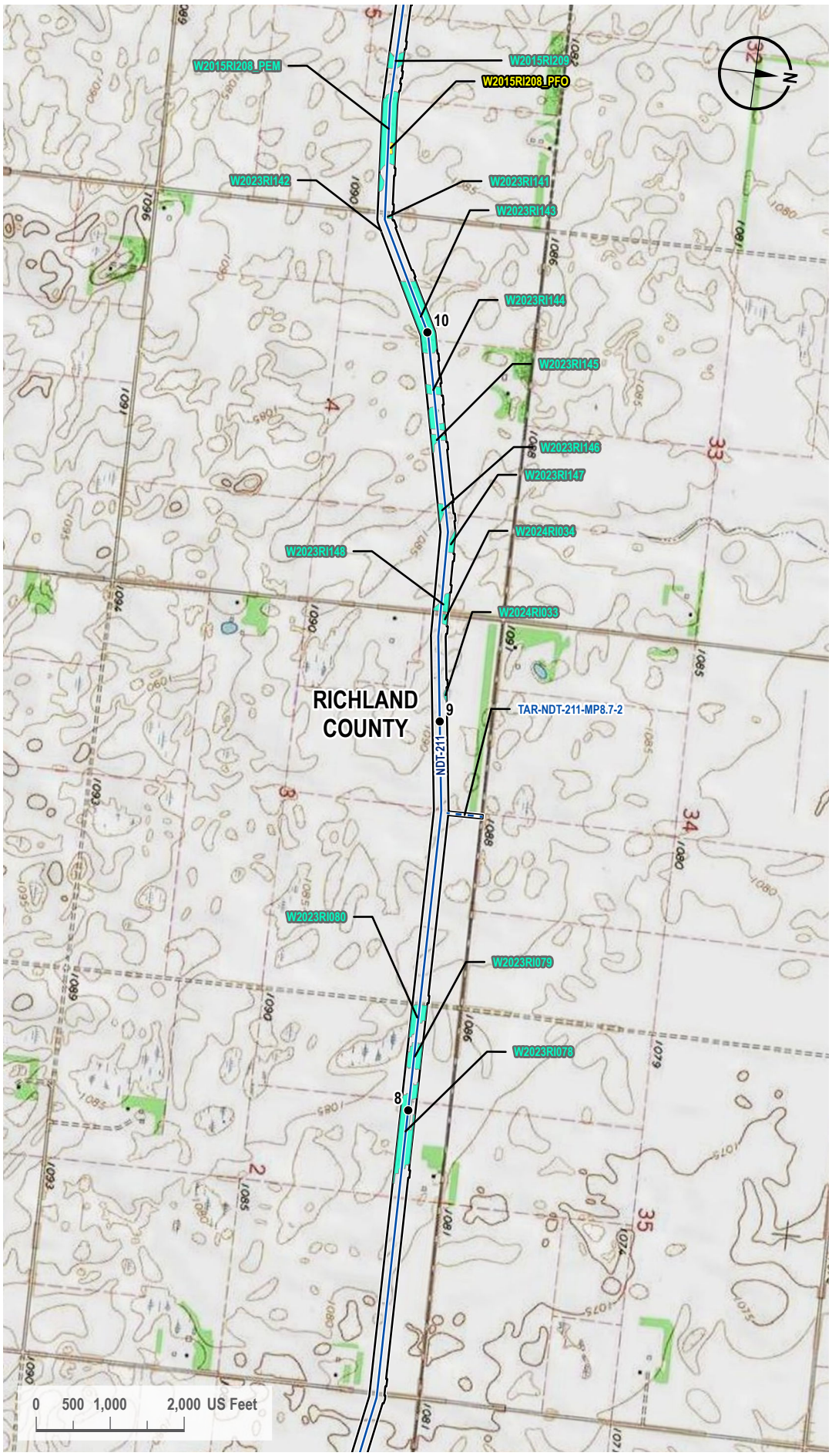

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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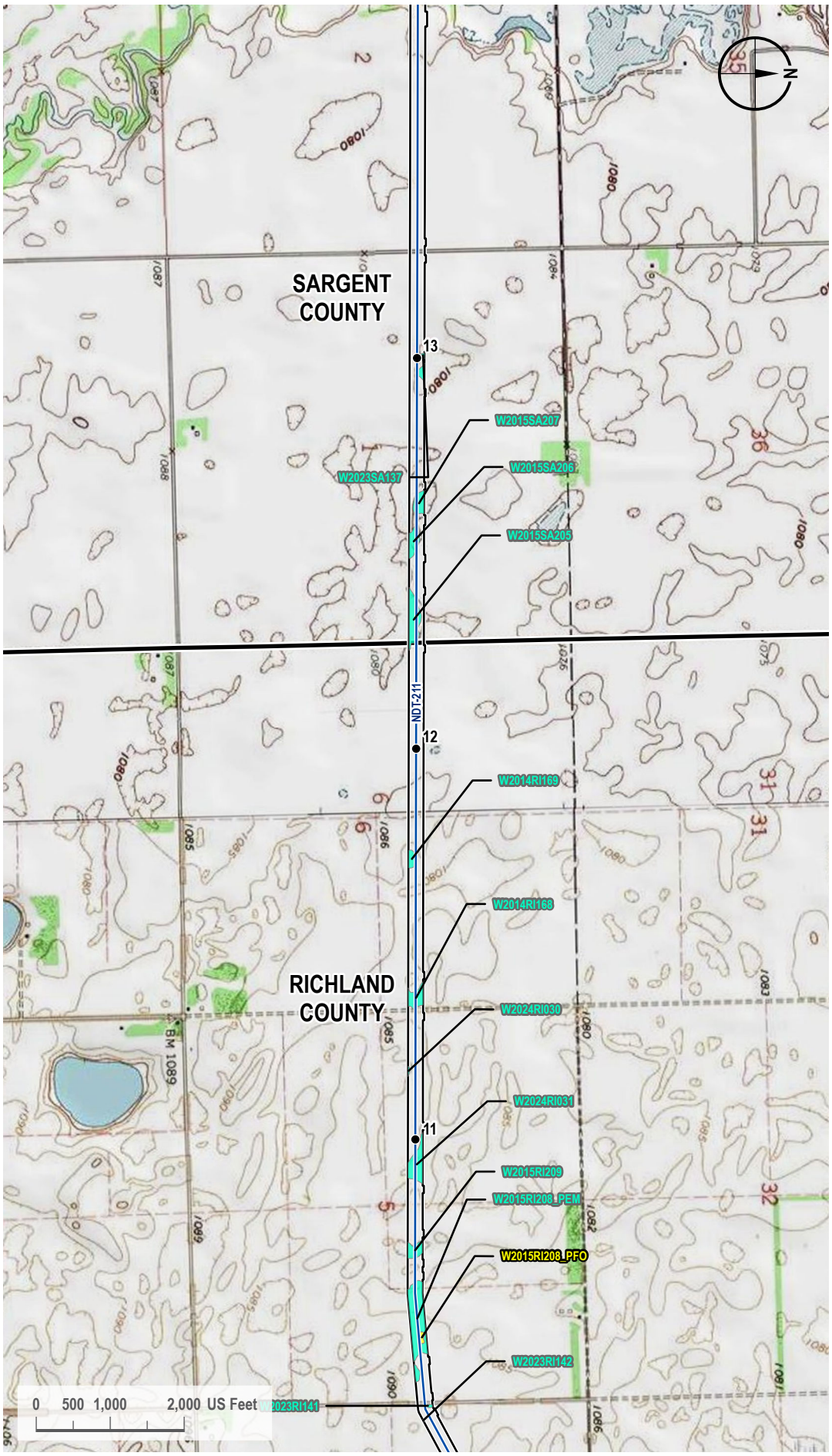

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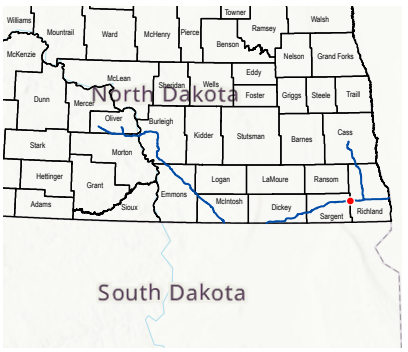

LEGEND

- Milepost
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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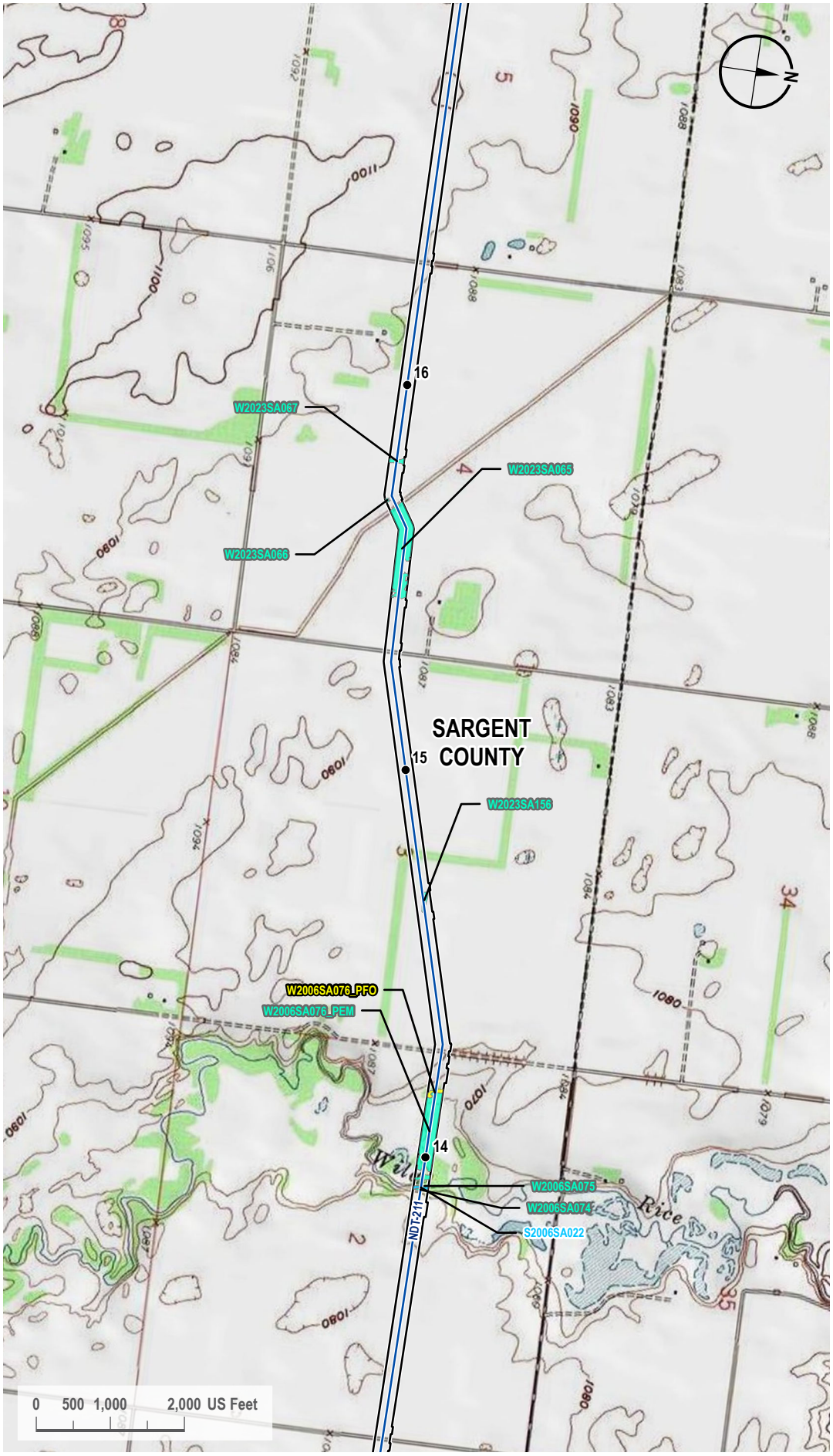

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Forested Wetland (Surveyed)

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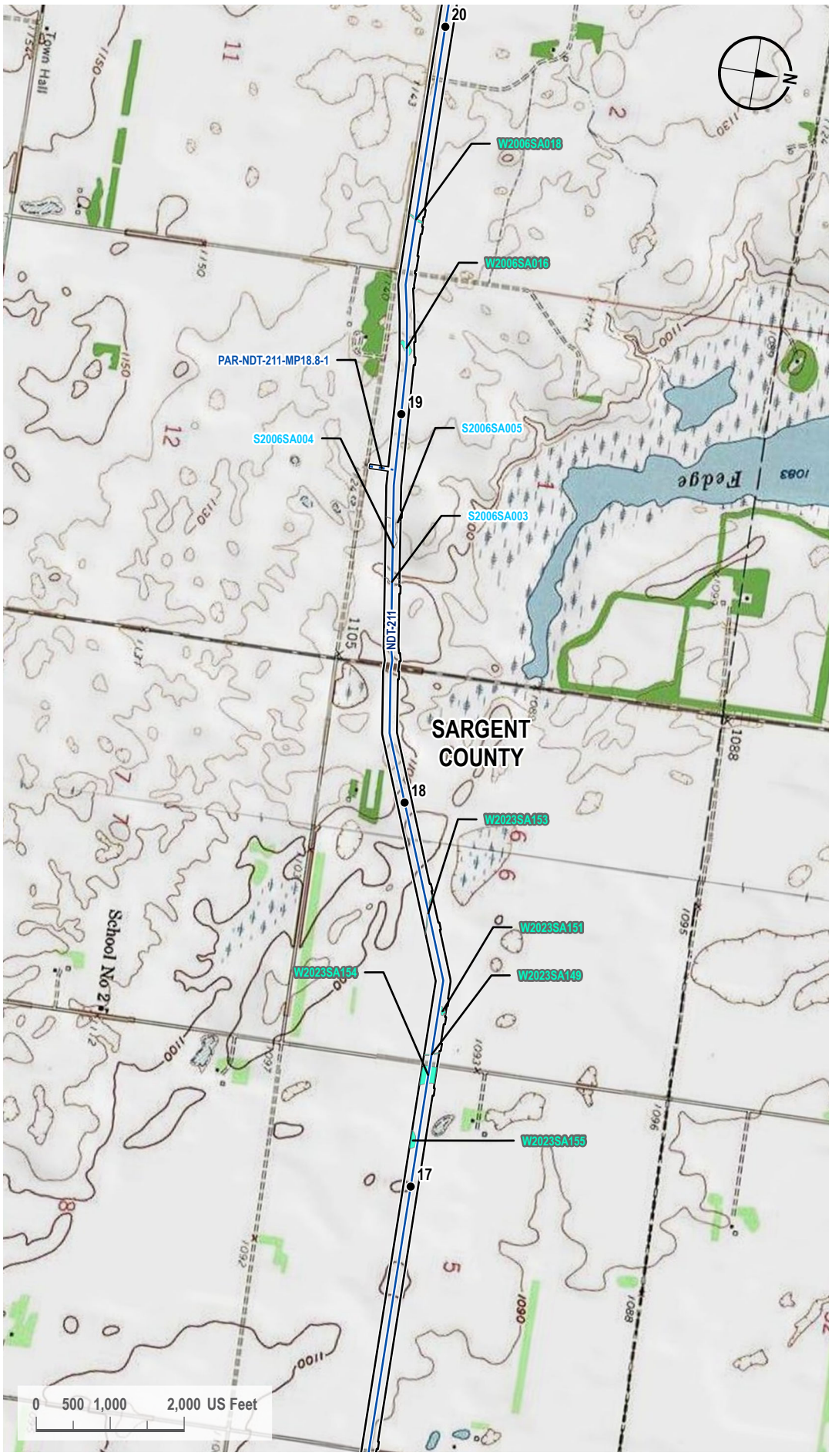

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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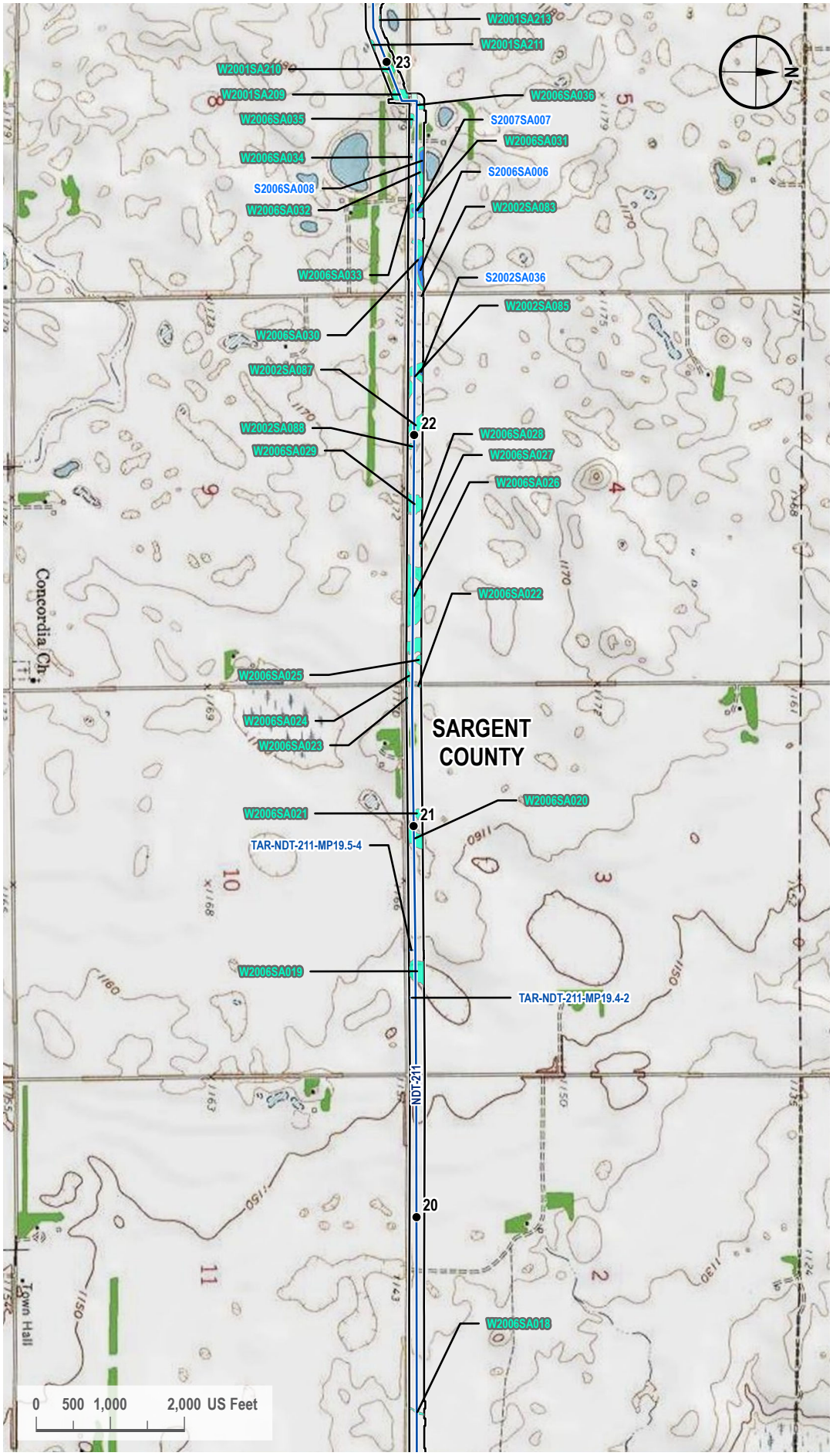

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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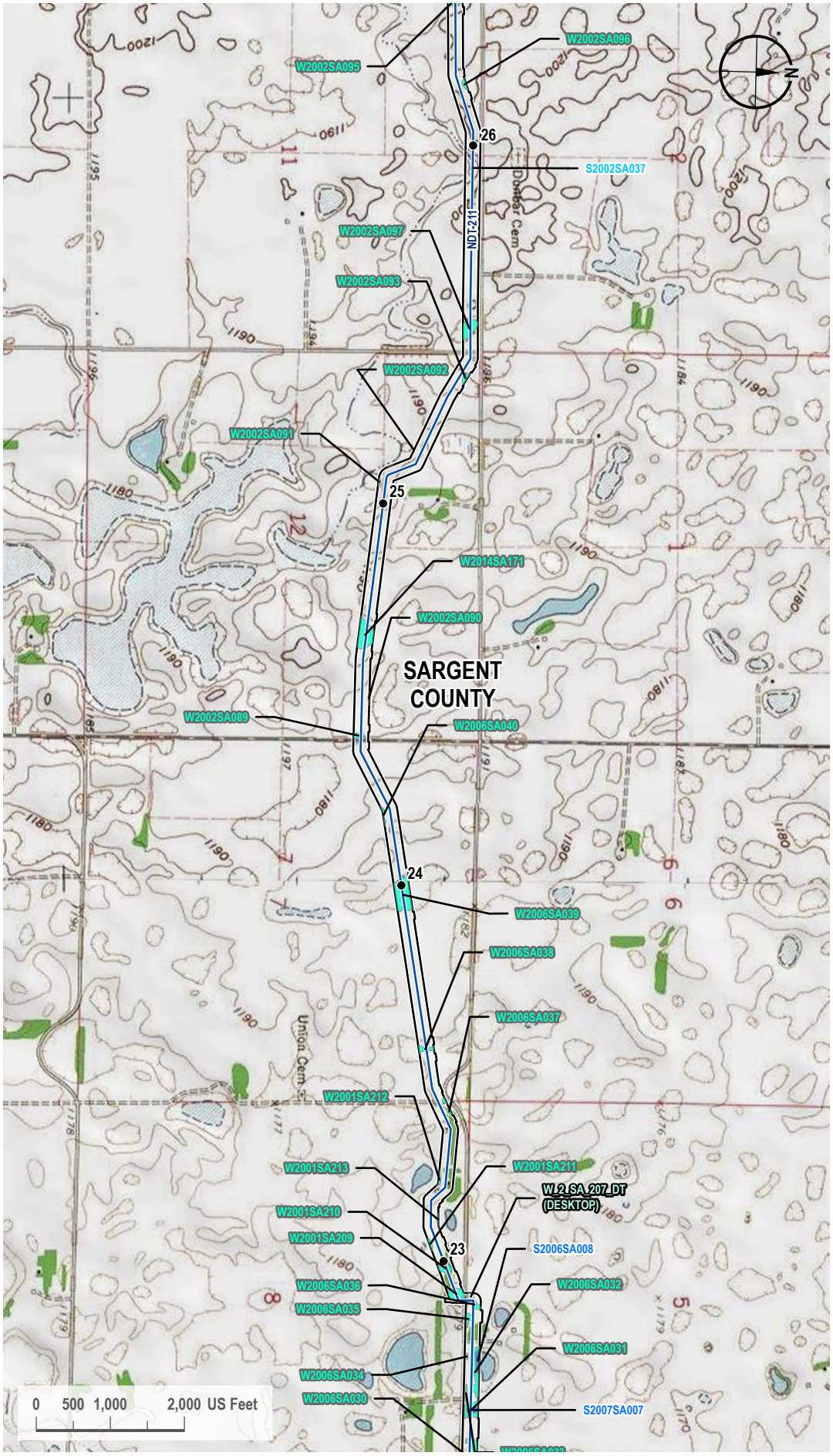

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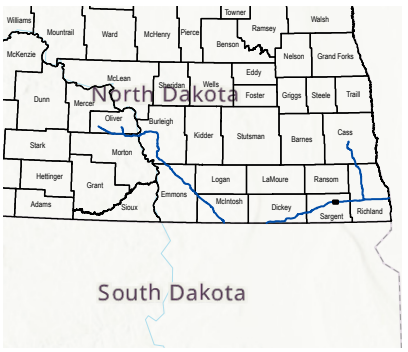

LEGEND

- Milepost
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- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Figure Title:

Topographic Map

Figure Number:

Appendix A-3

Scale:	Projection:
1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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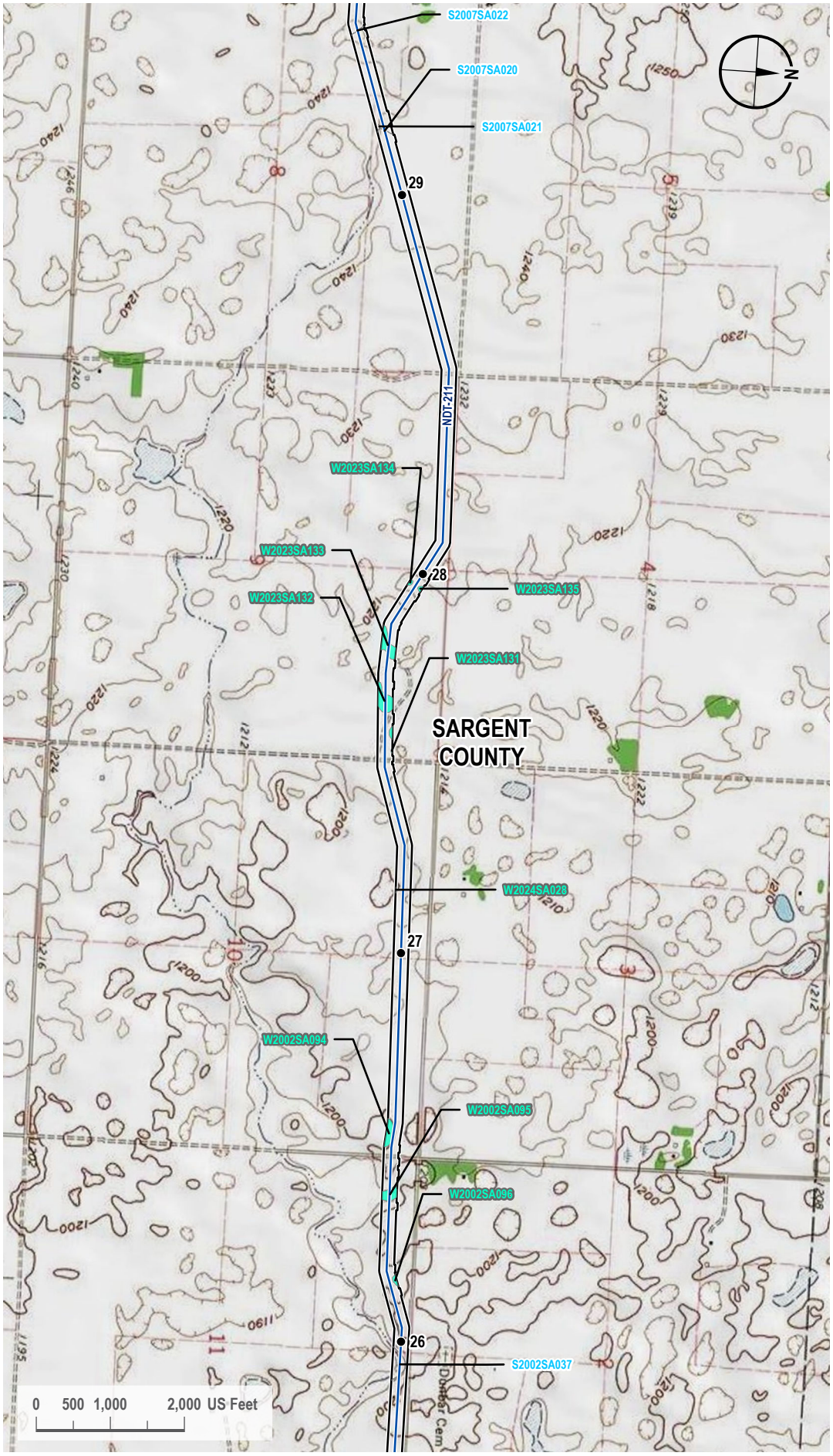

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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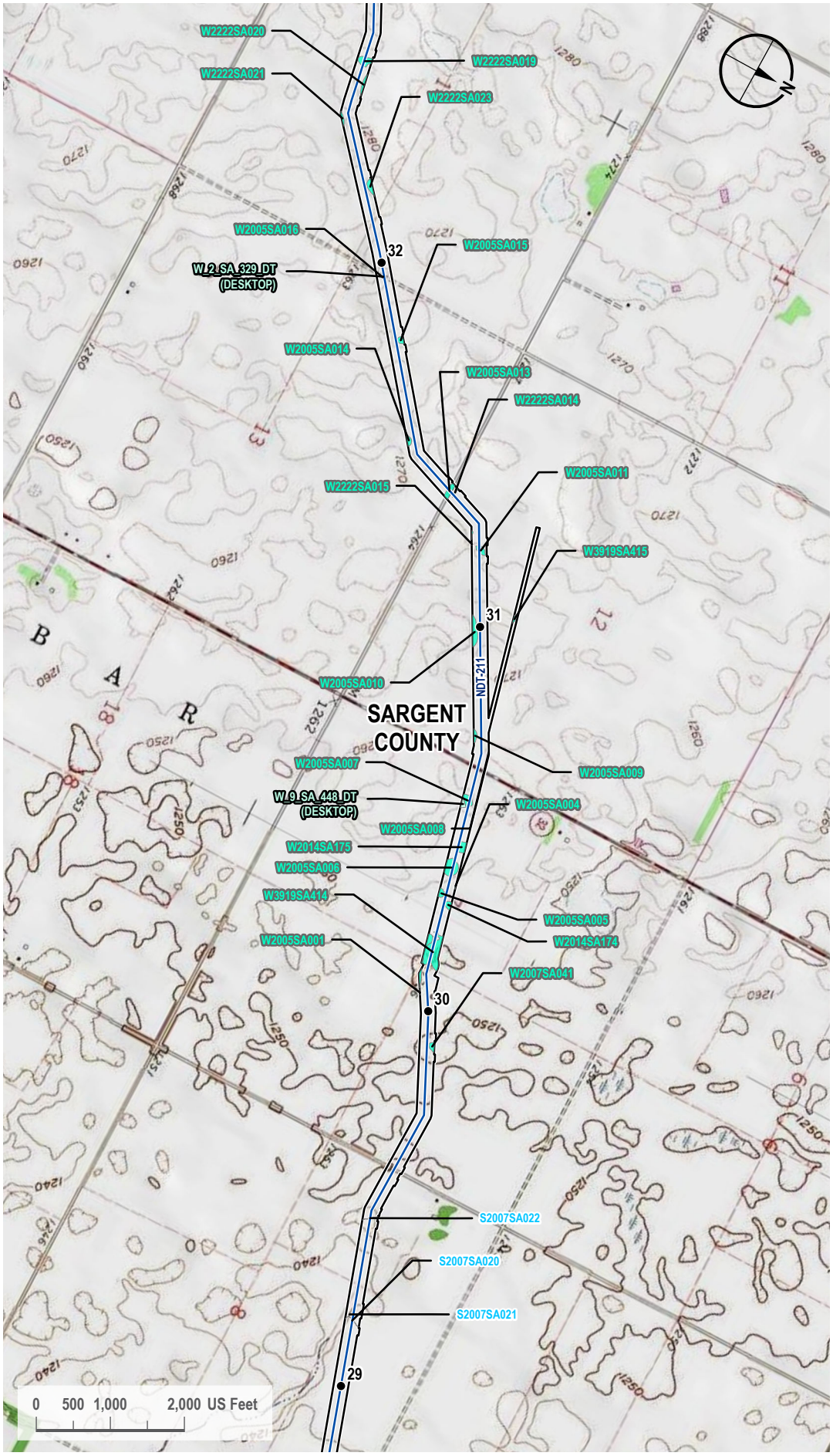

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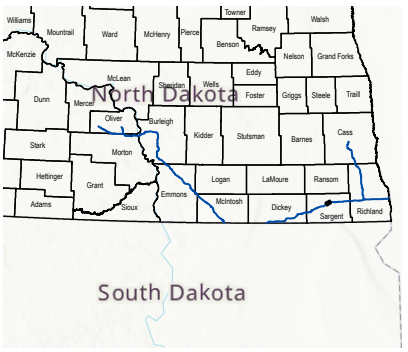

LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
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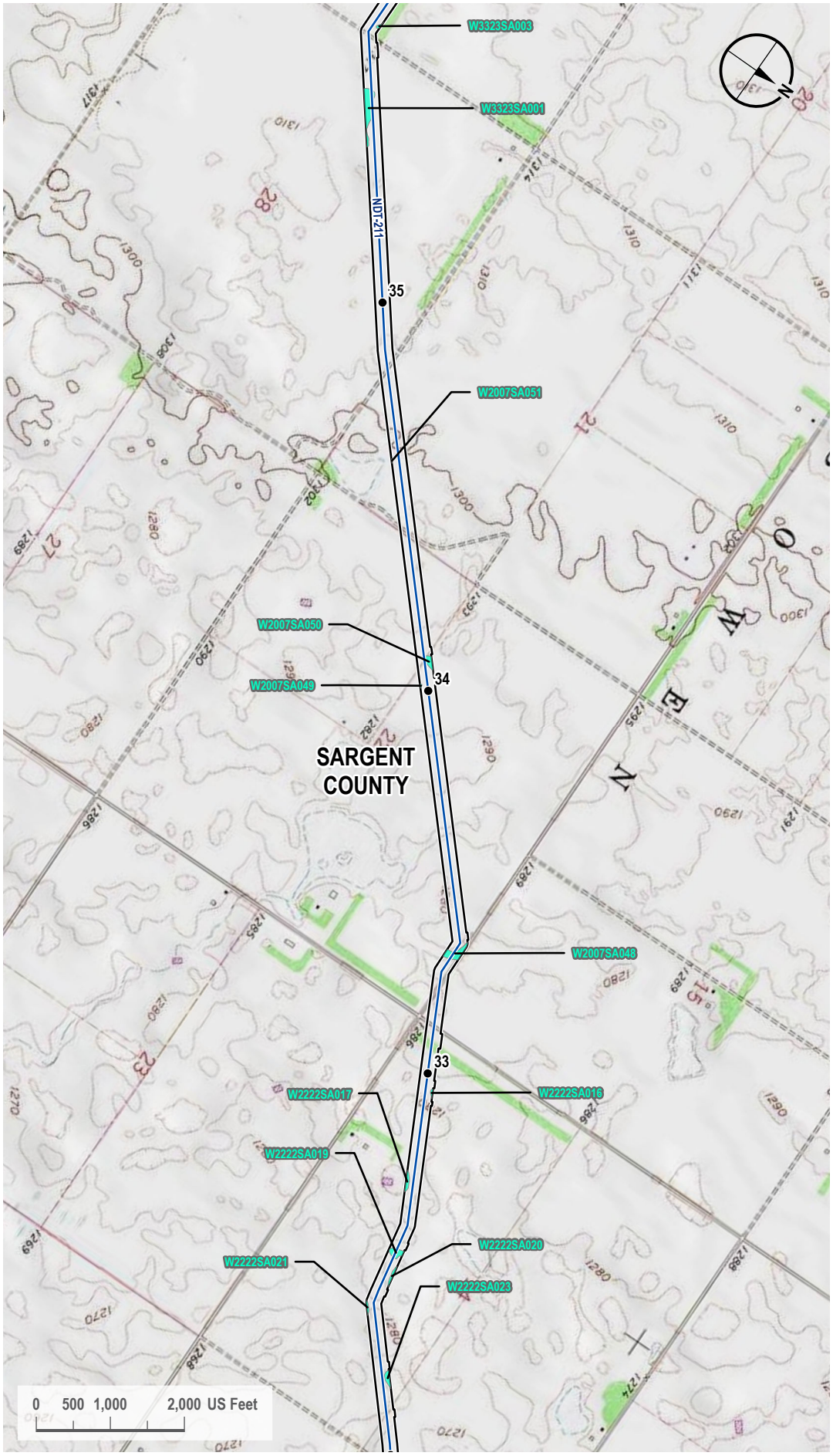

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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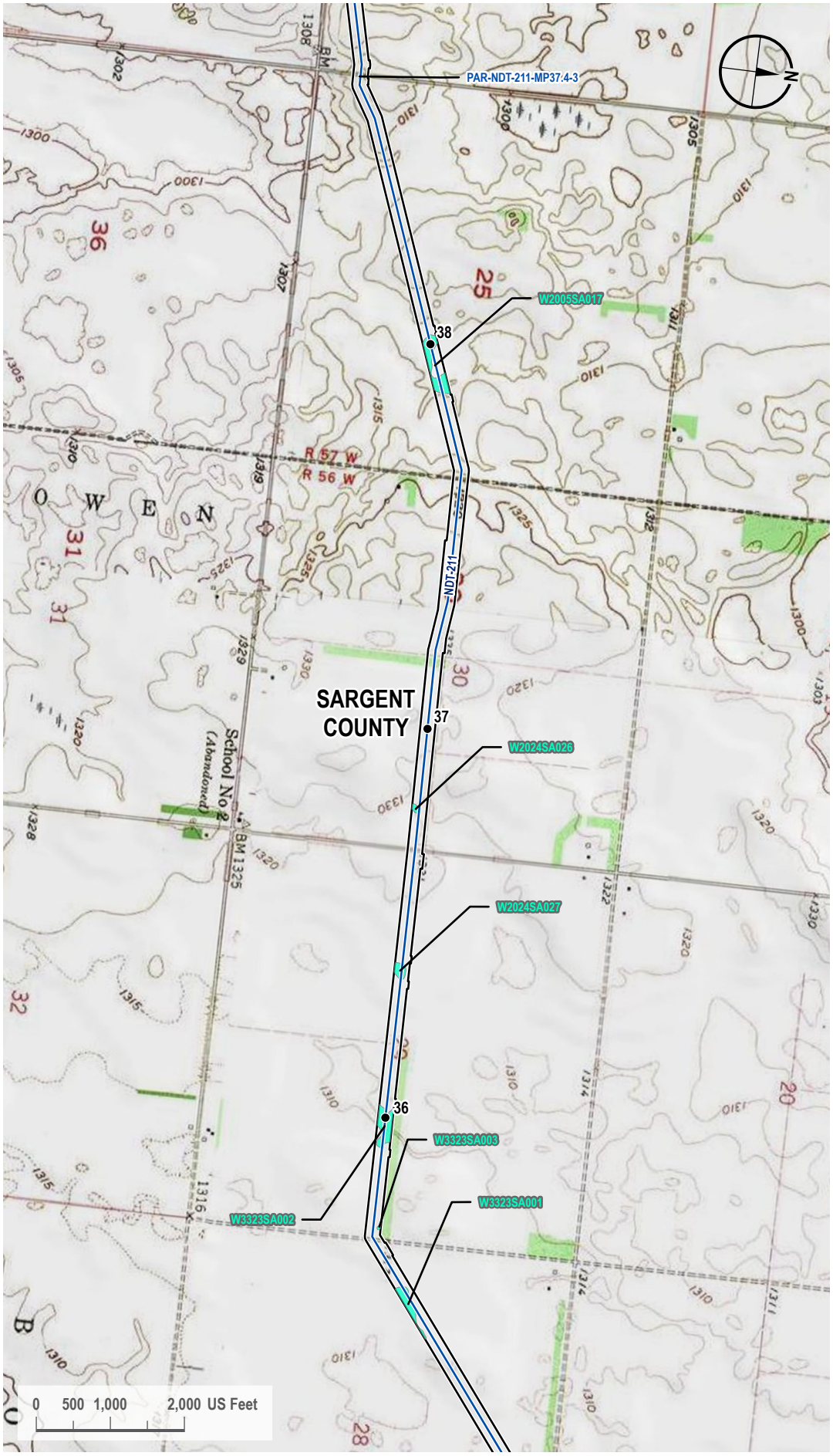

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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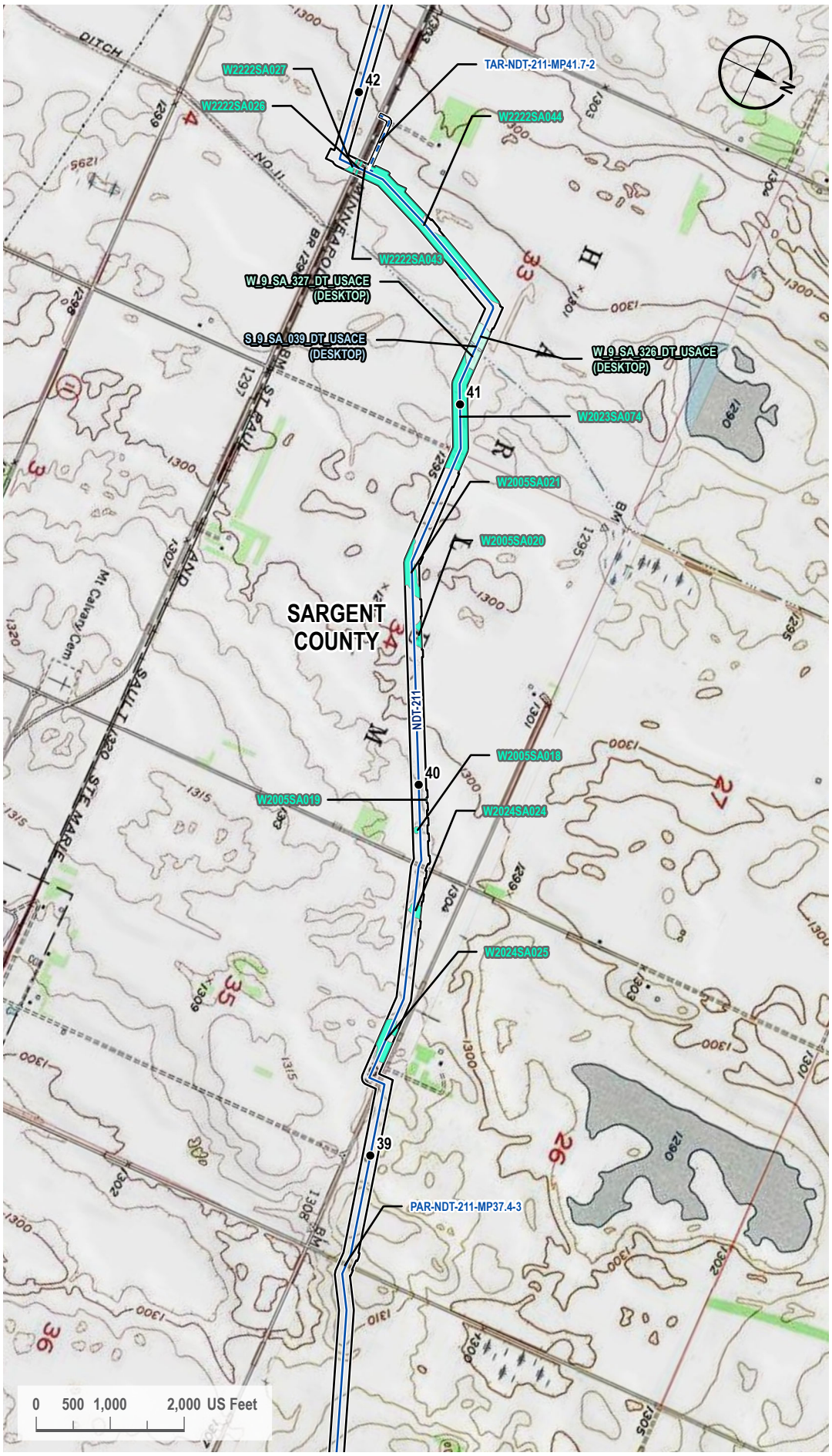

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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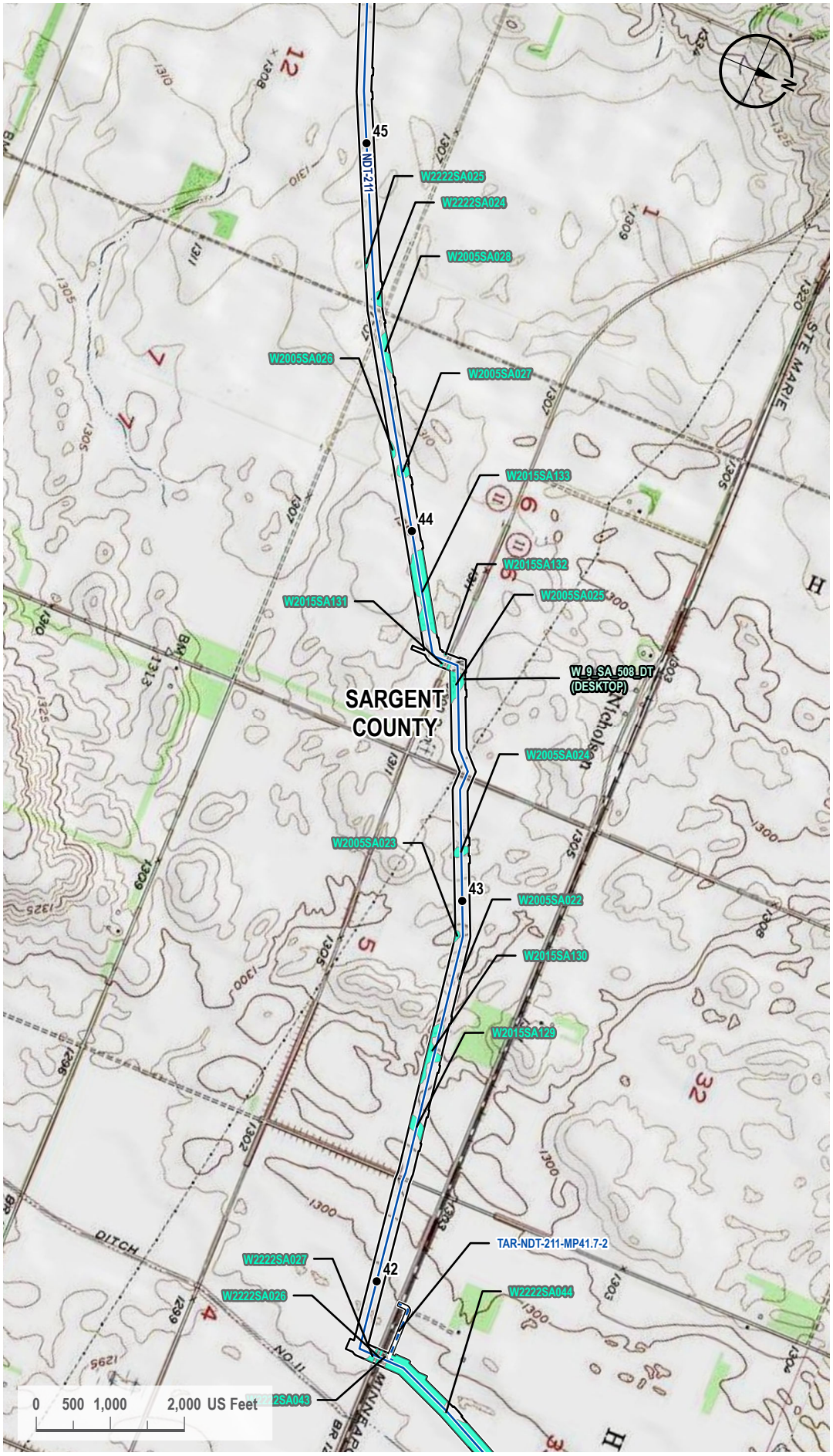

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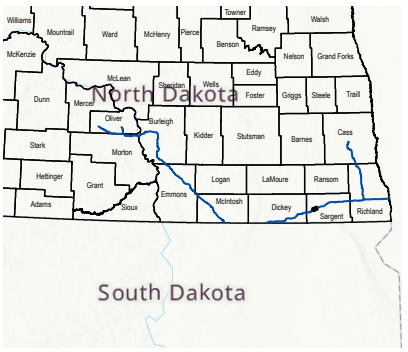

LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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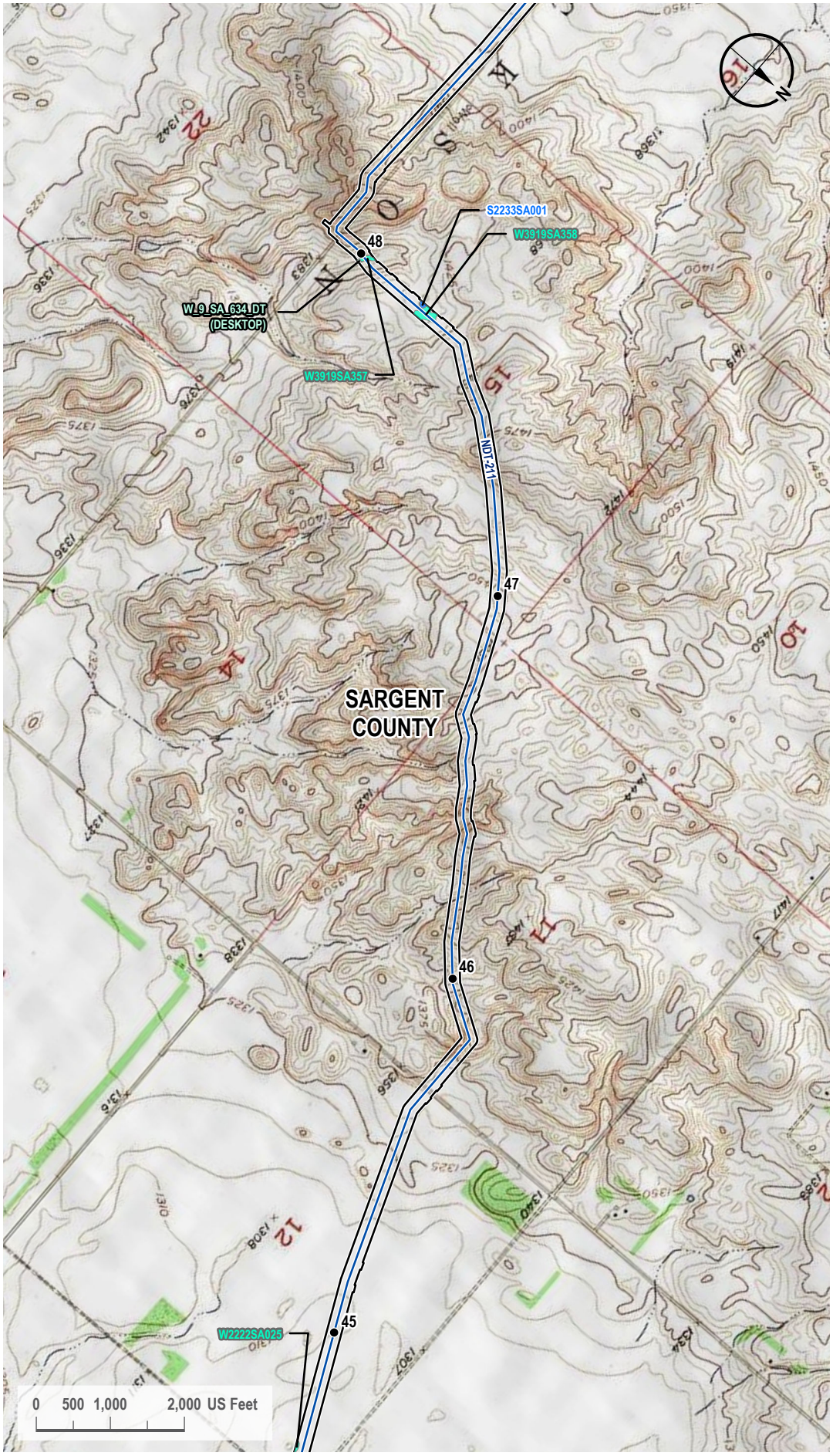

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
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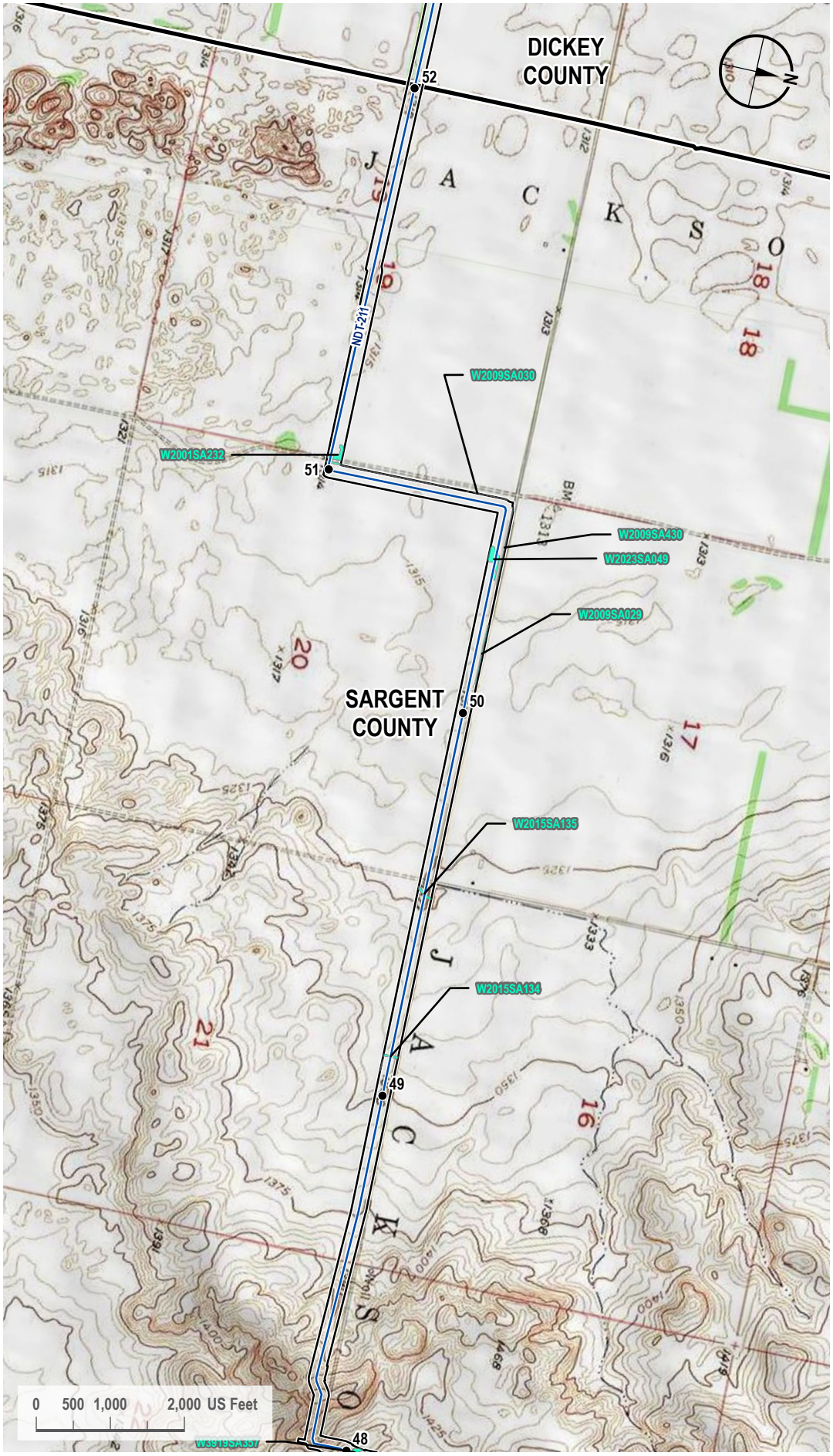

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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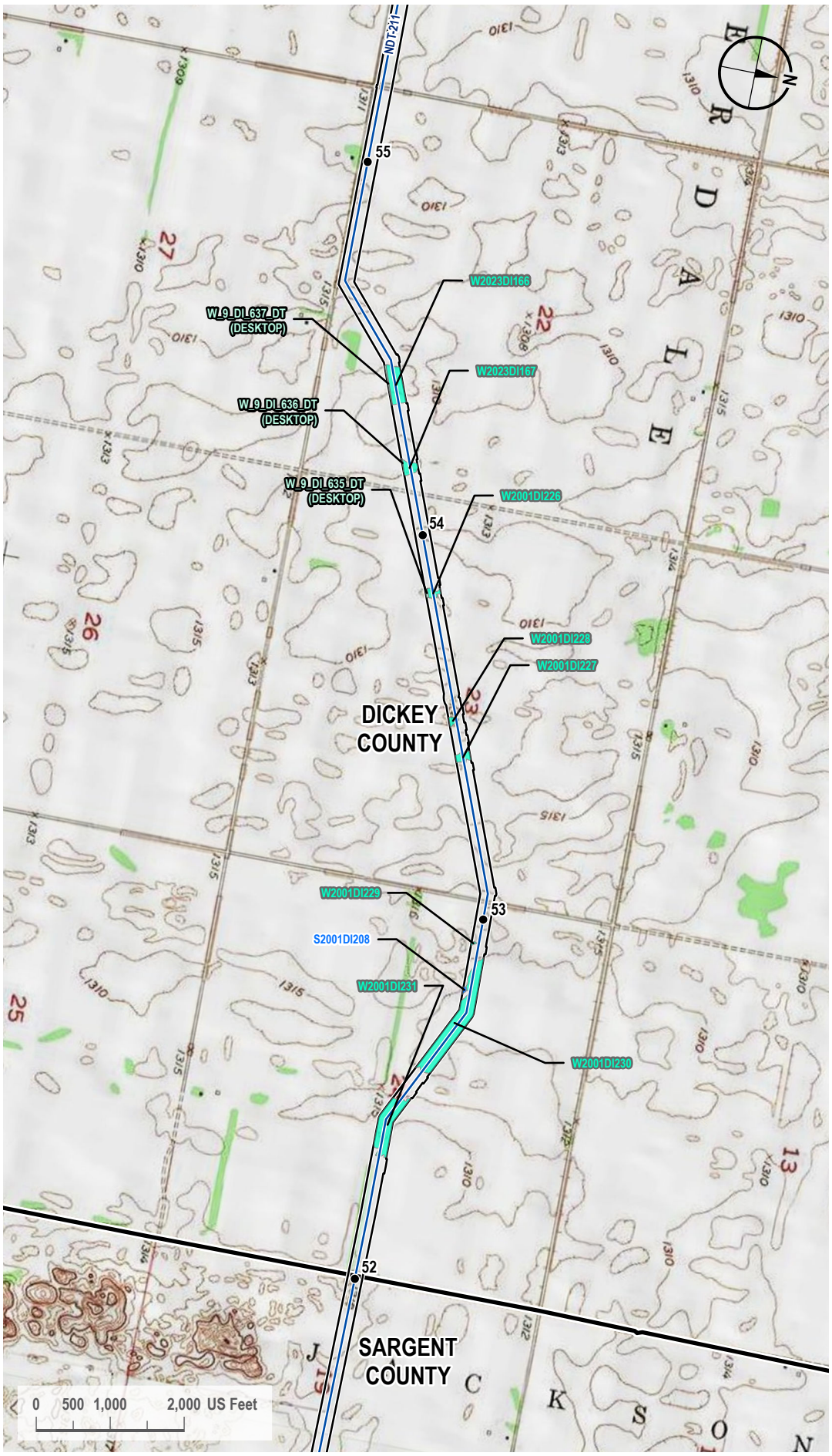

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
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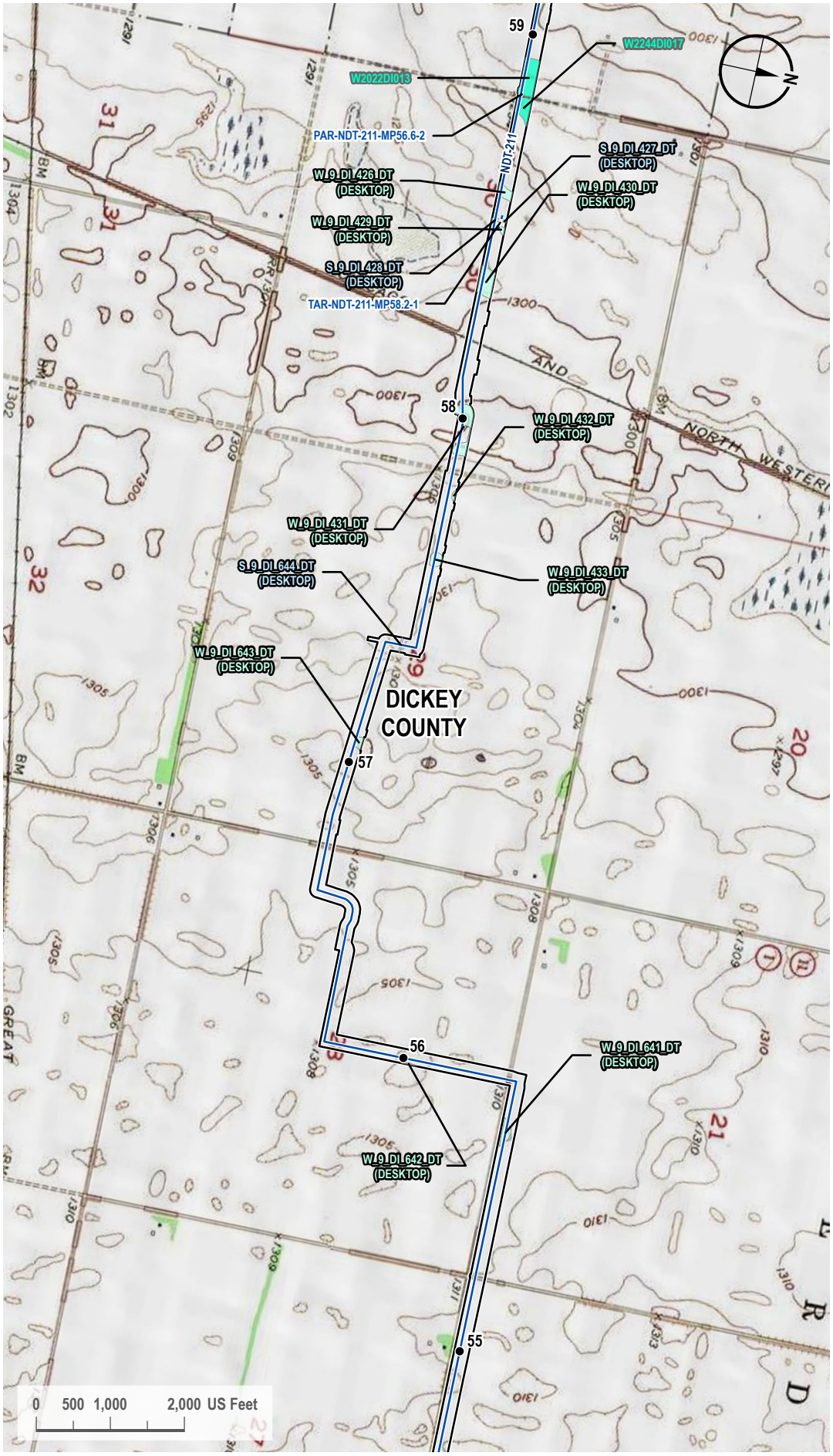

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Surveyed)
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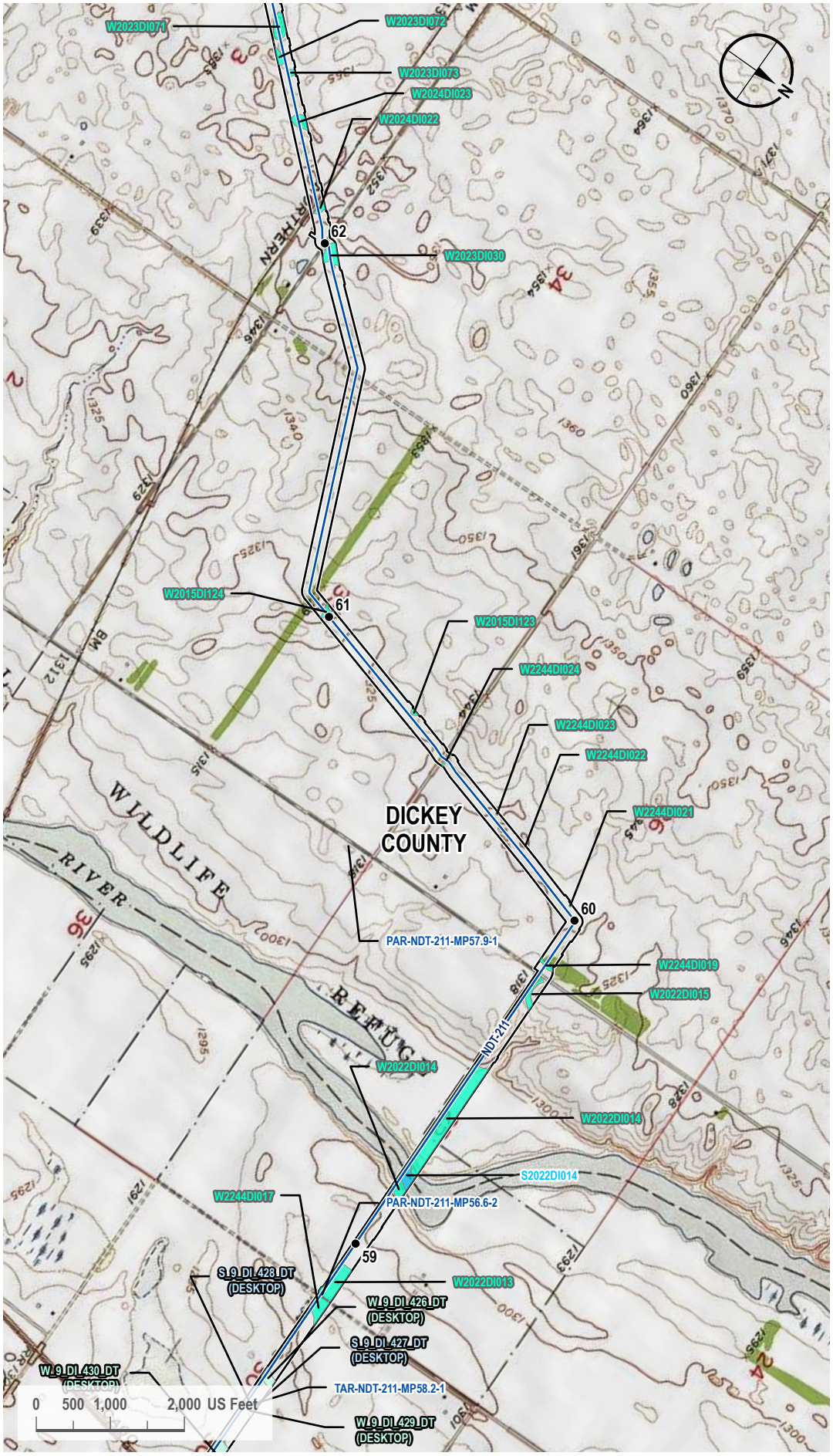

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
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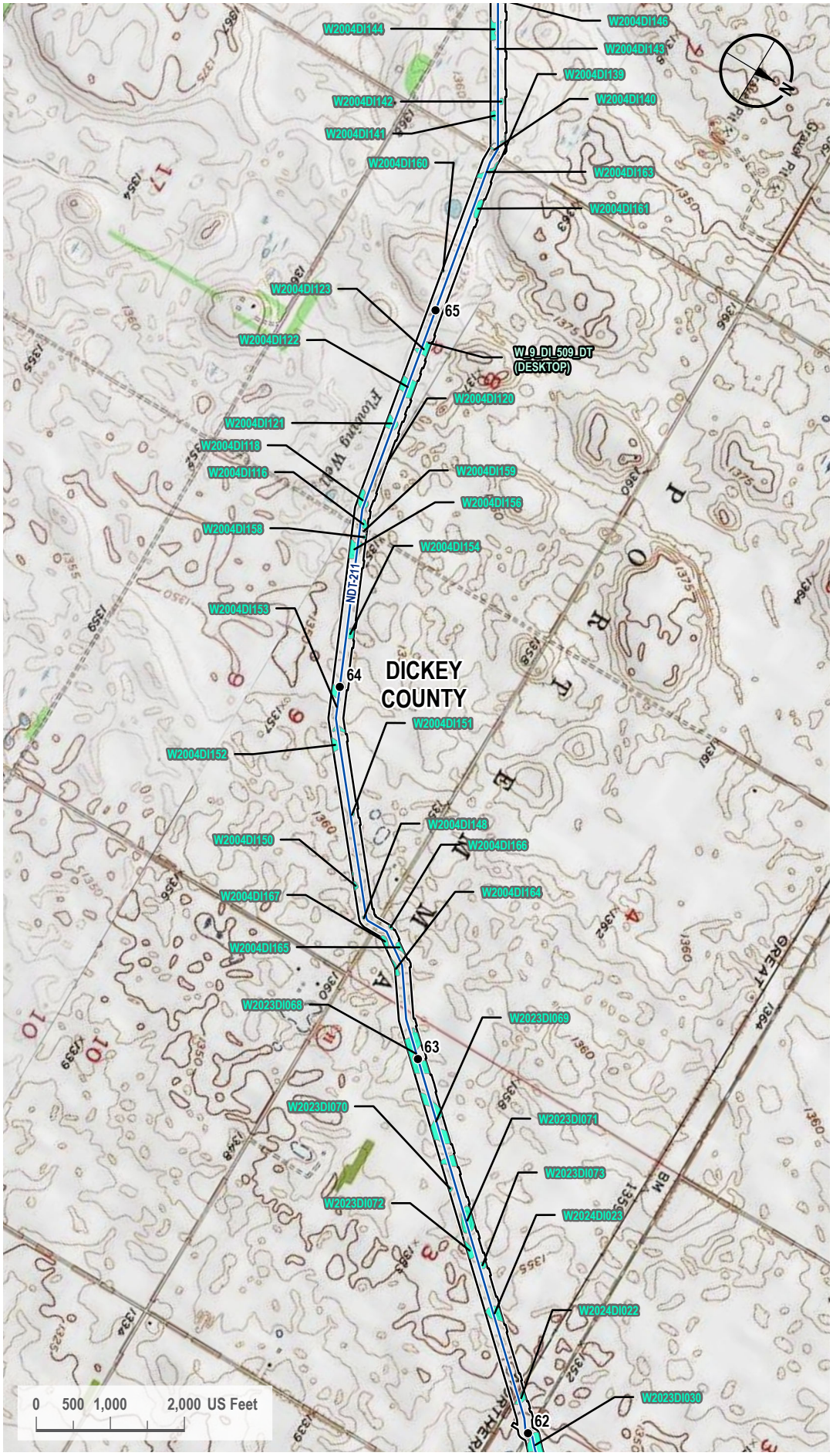

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
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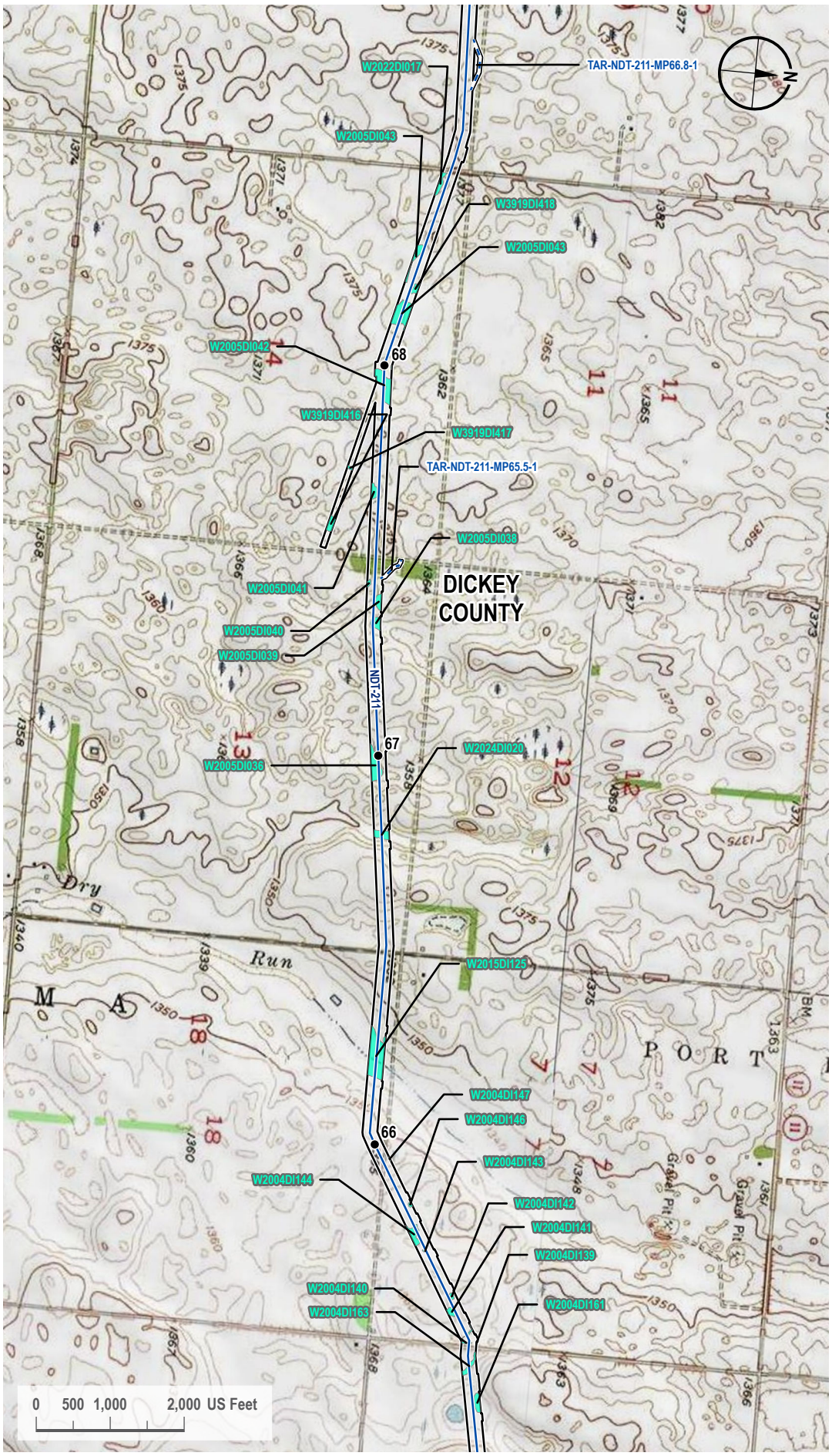

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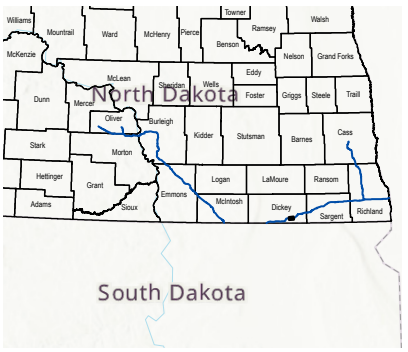

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- Milepost
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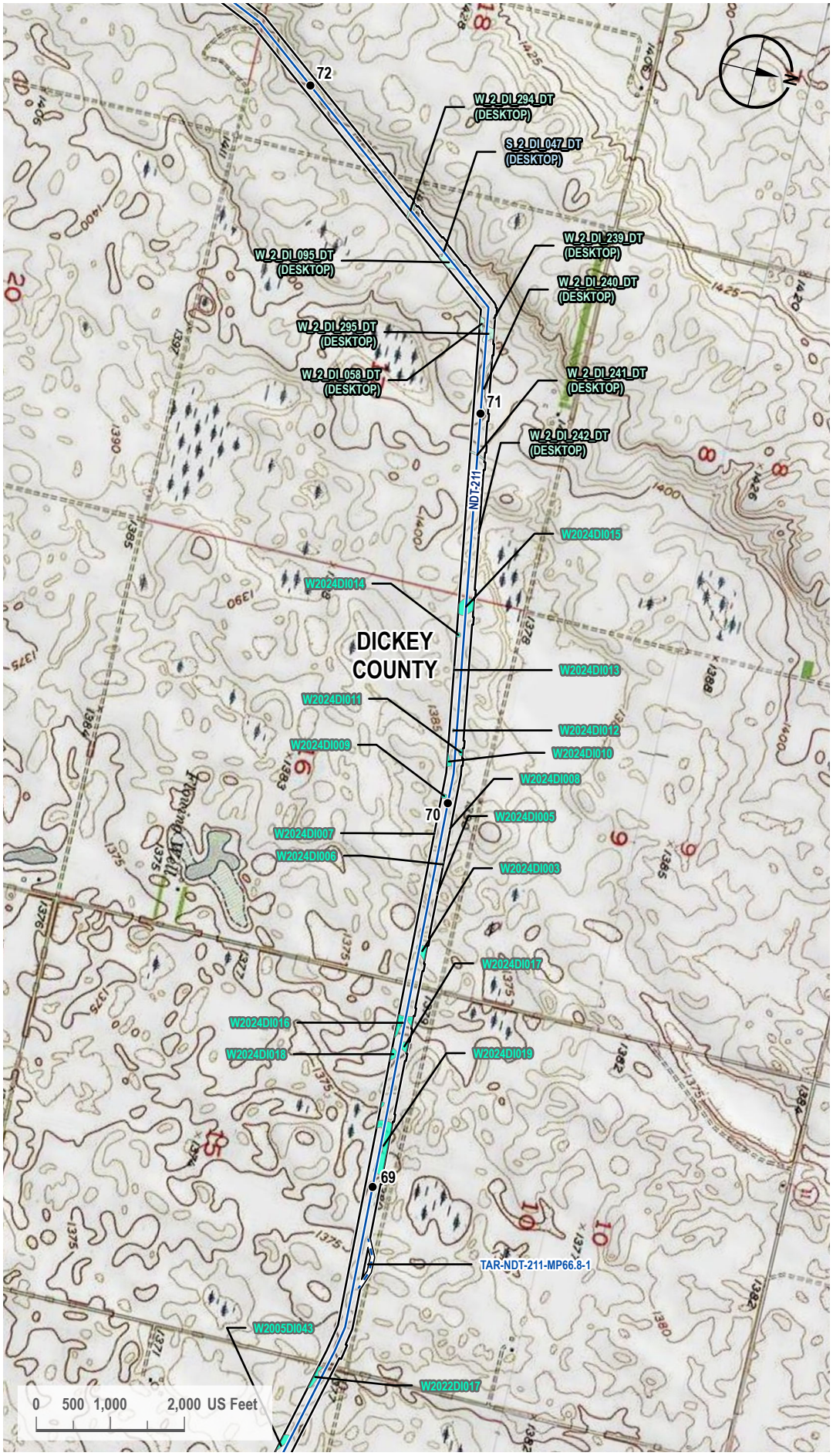

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Surveyed)
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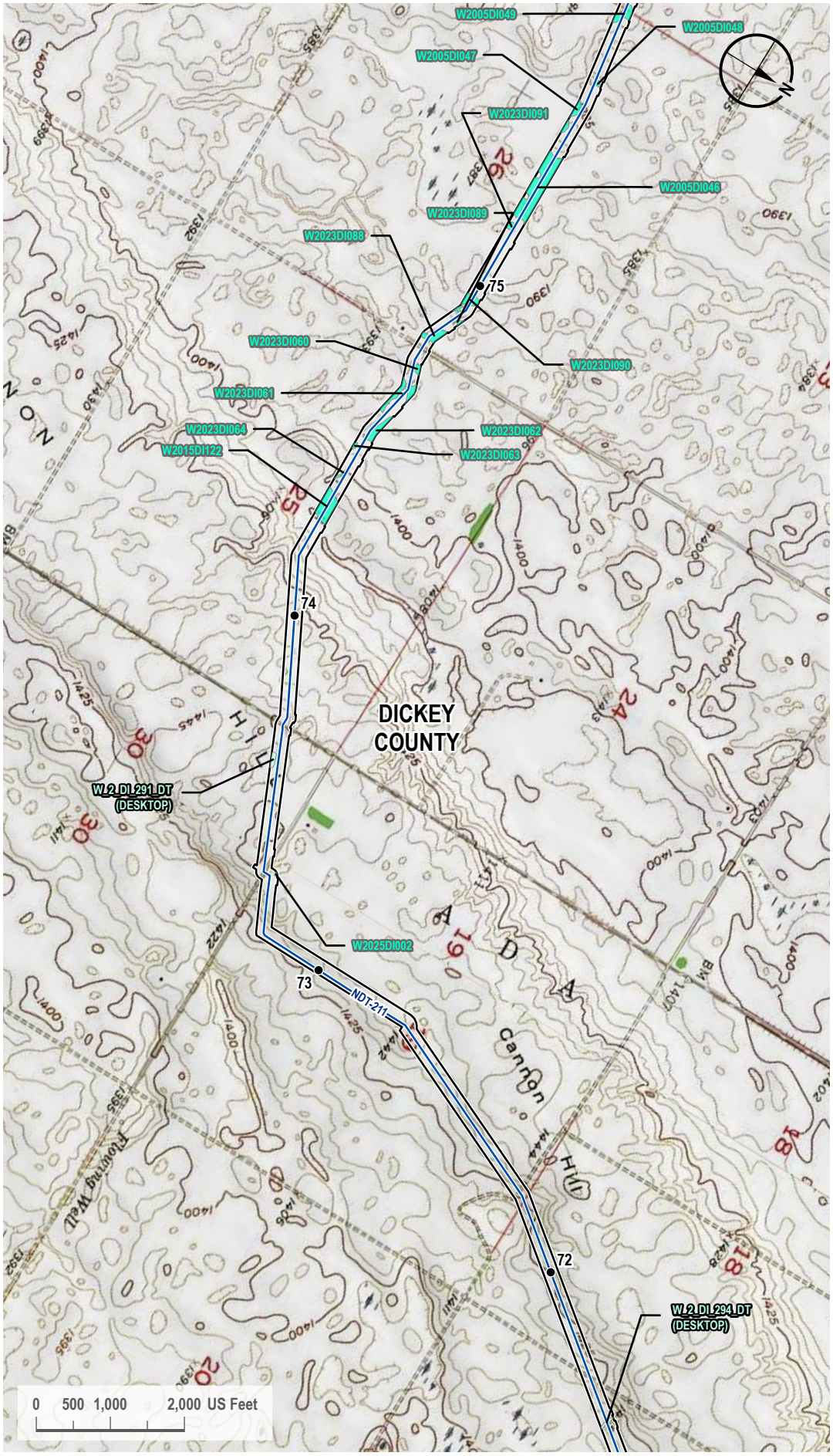

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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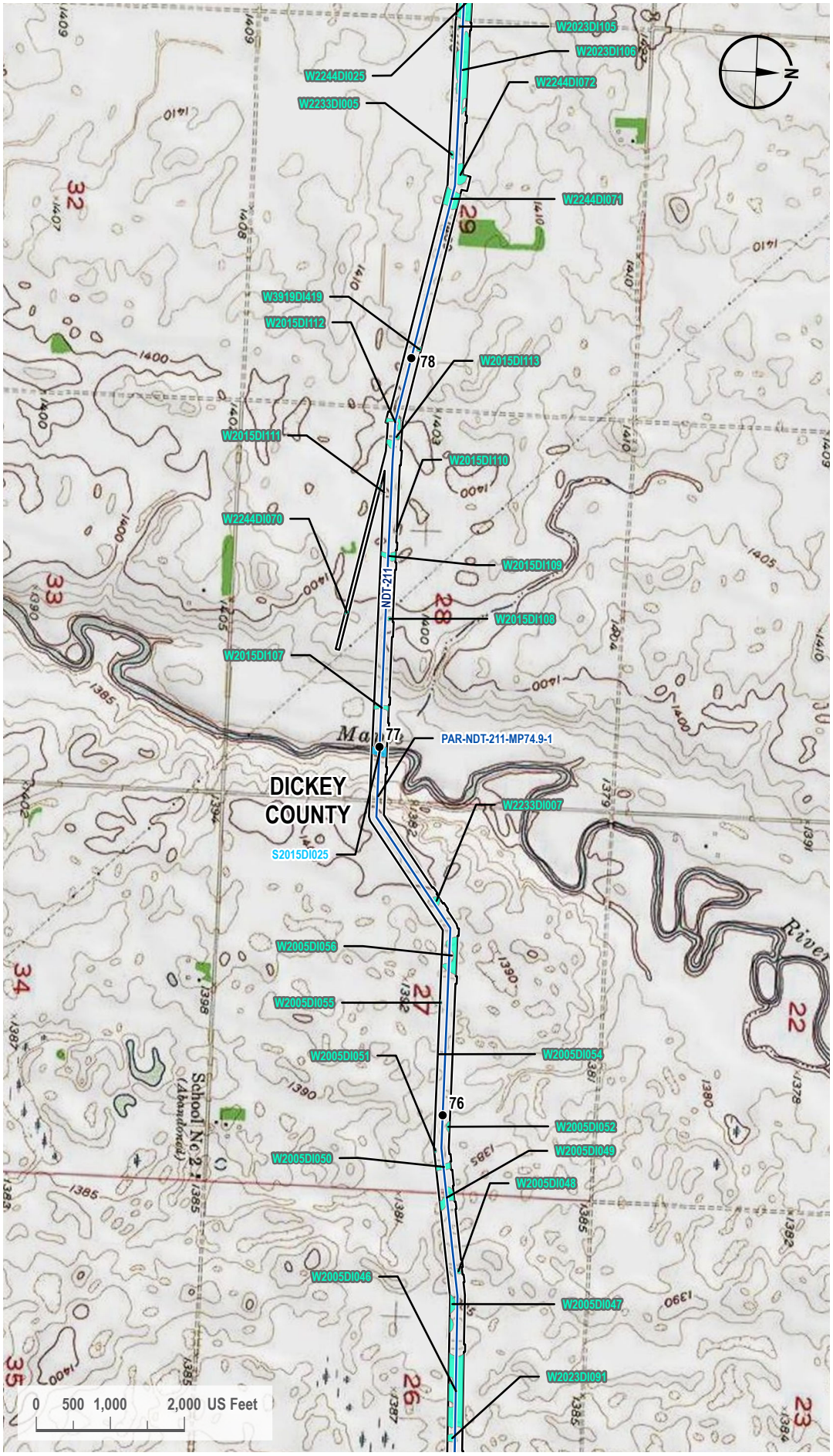

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Figure Title:
Topographic Map

Figure Number:
Appendix A-3

Scale:	Projection:
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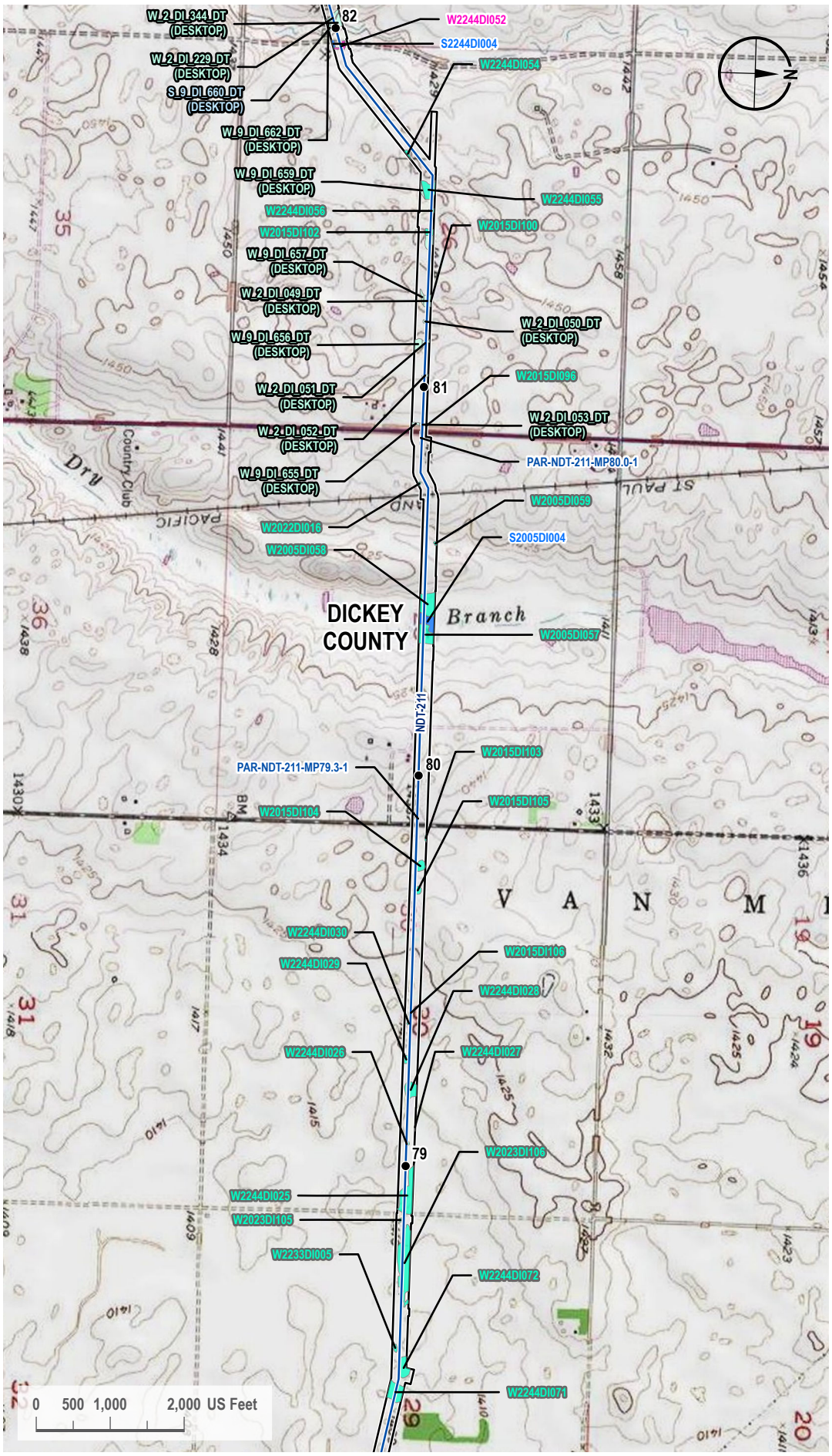

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Scrub-Shrub Wetland (Surveyed)
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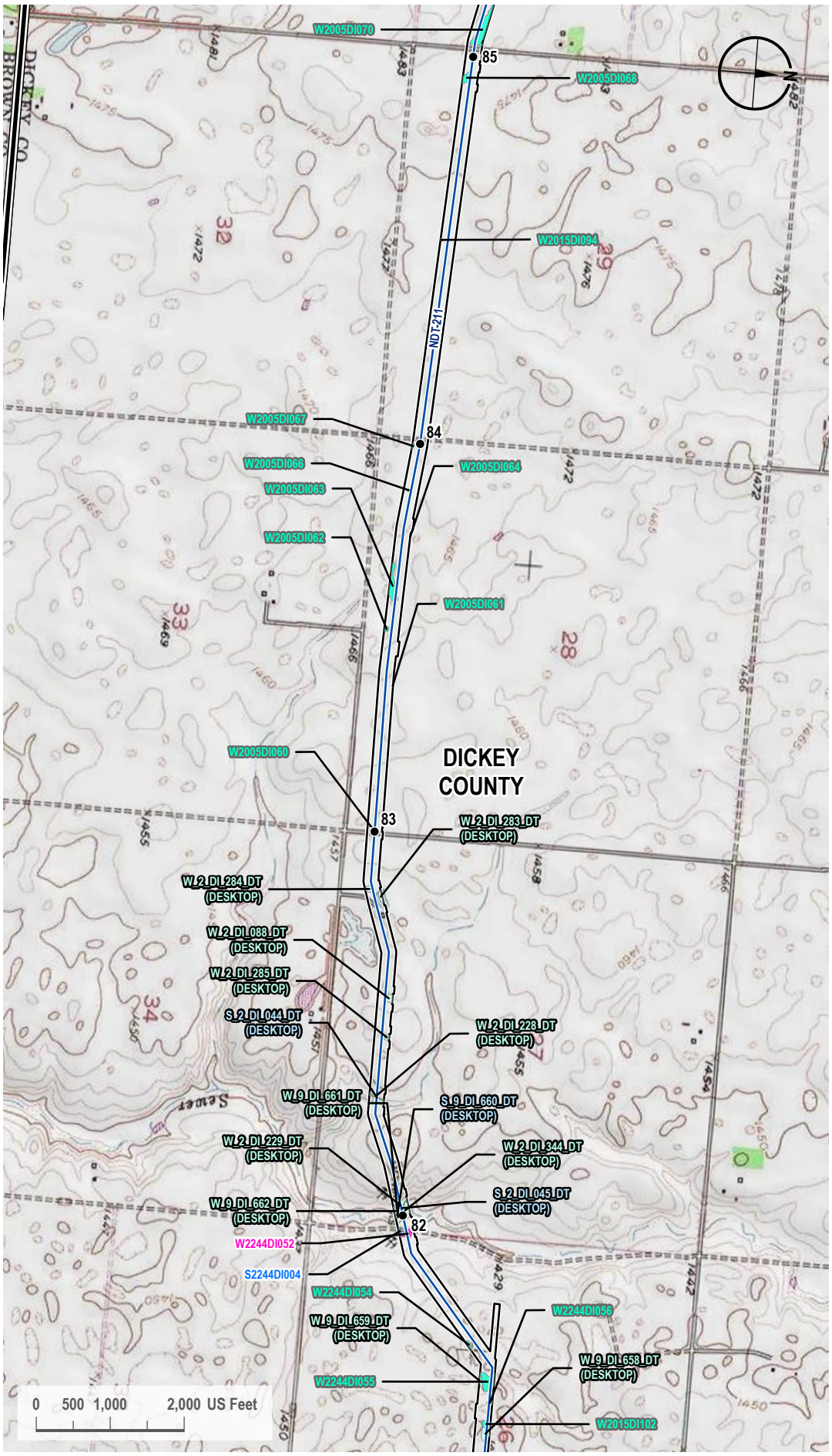

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- State Line
- County Line
- 200-foot Siting Corridor
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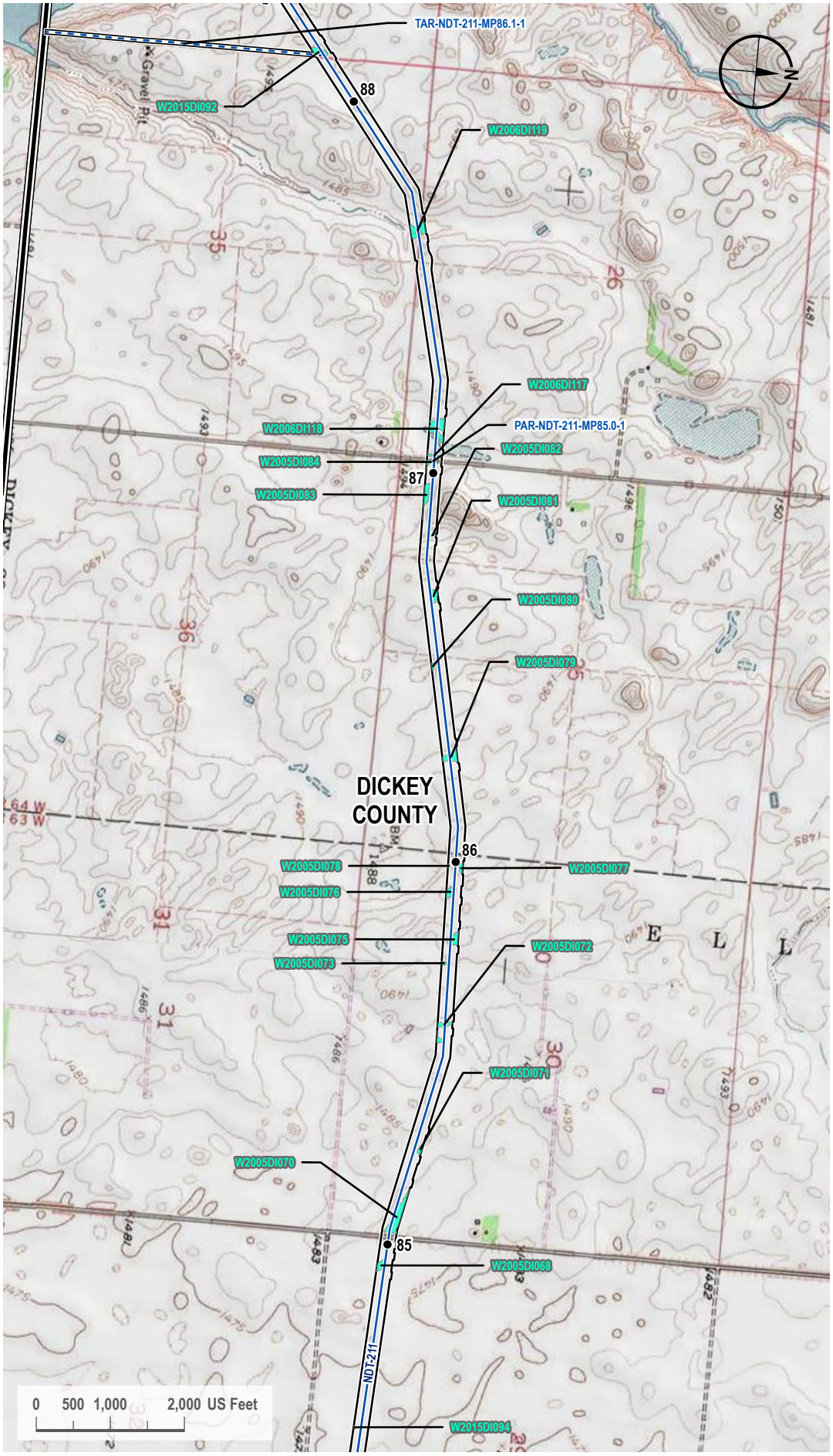

VICINITY MAP



LEGEND

- Milepost
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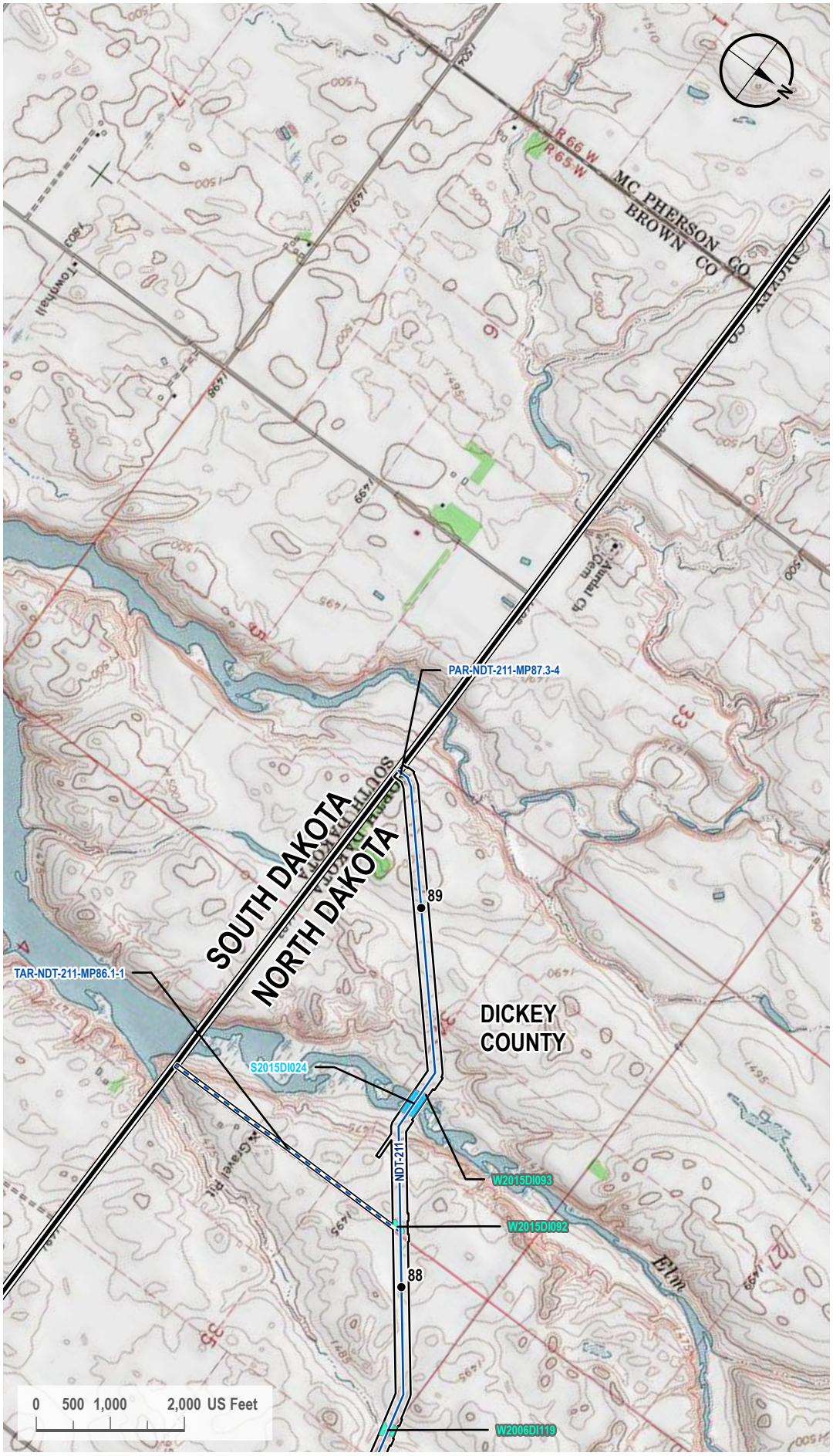

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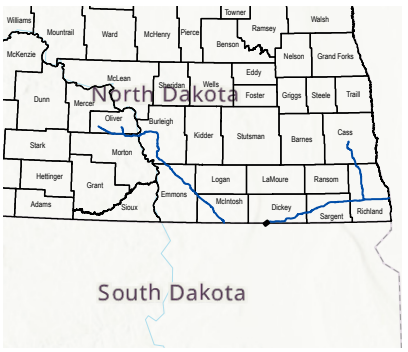

LEGEND

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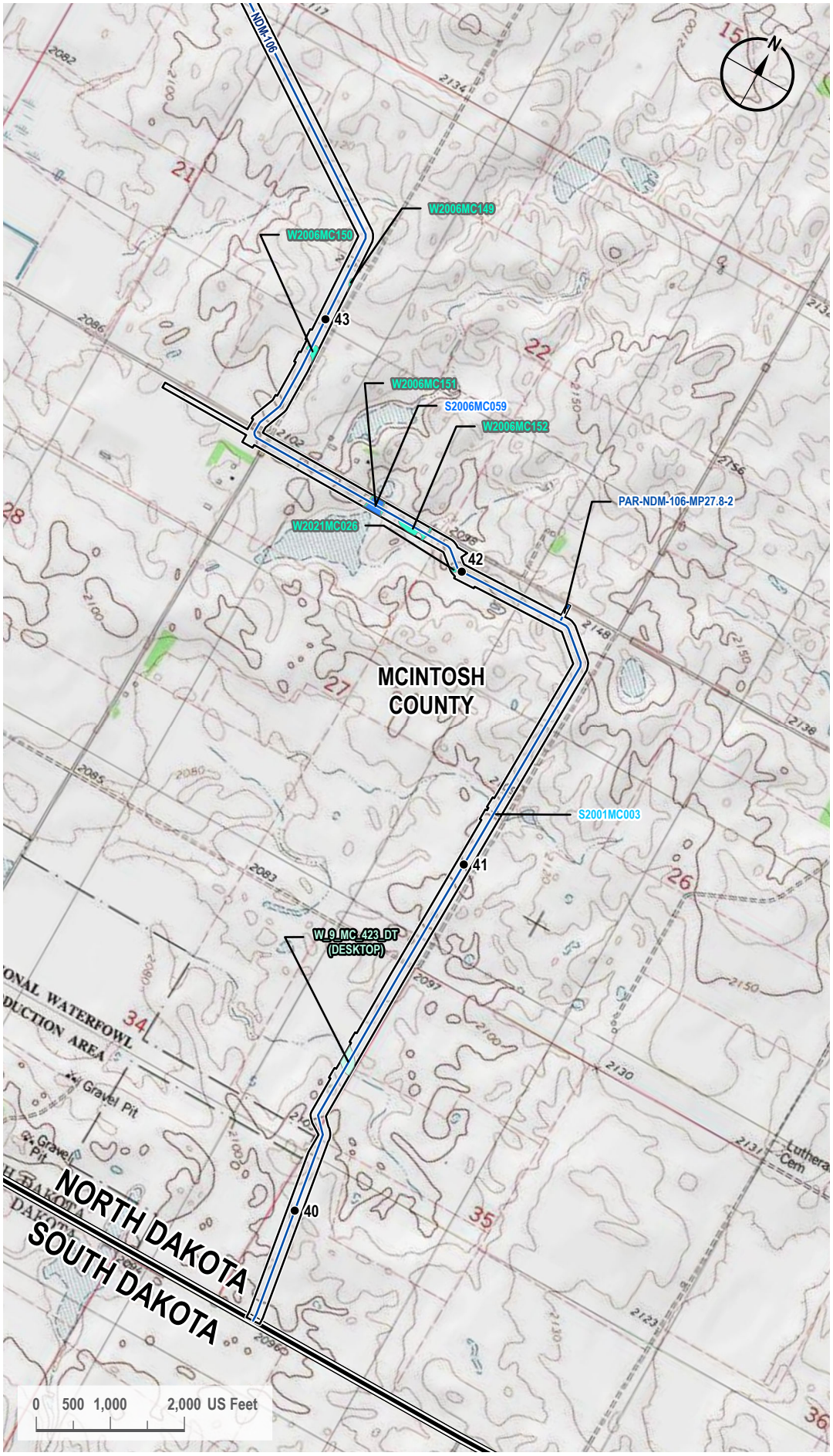

VICINITY MAP



LEGEND

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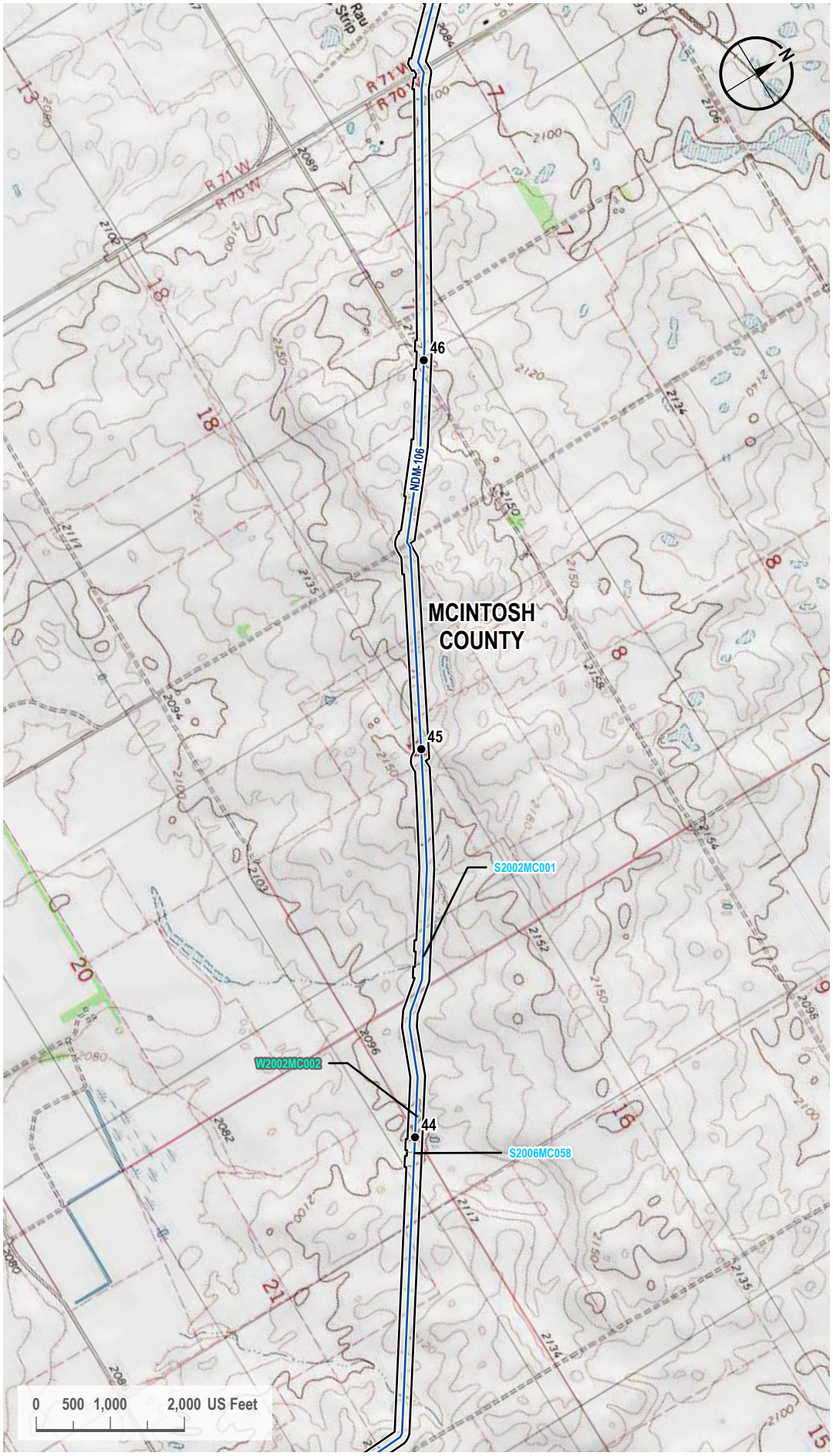

VICINITY MAP



LEGEND

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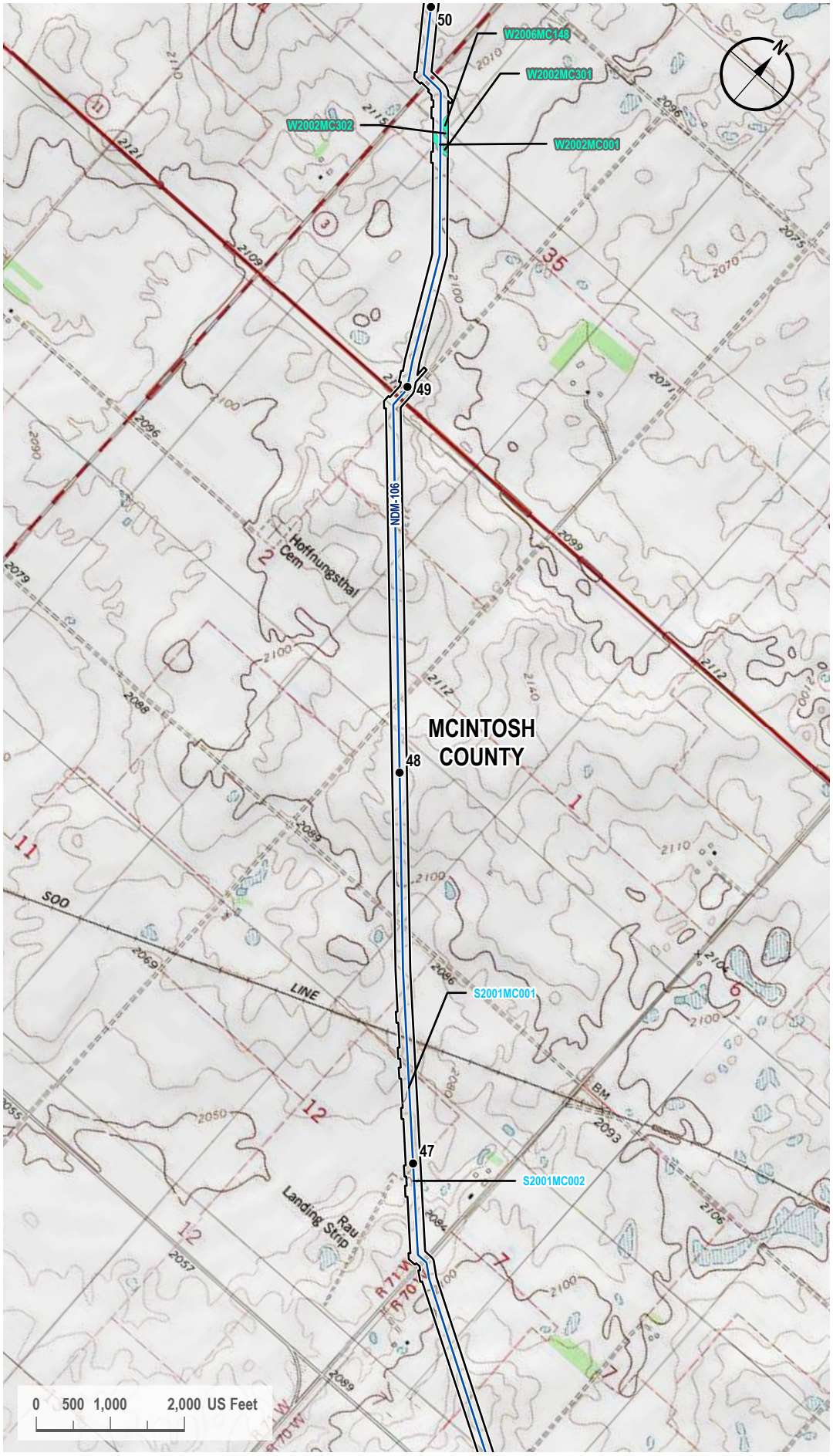

VICINITY MAP



LEGEND

- Milepost
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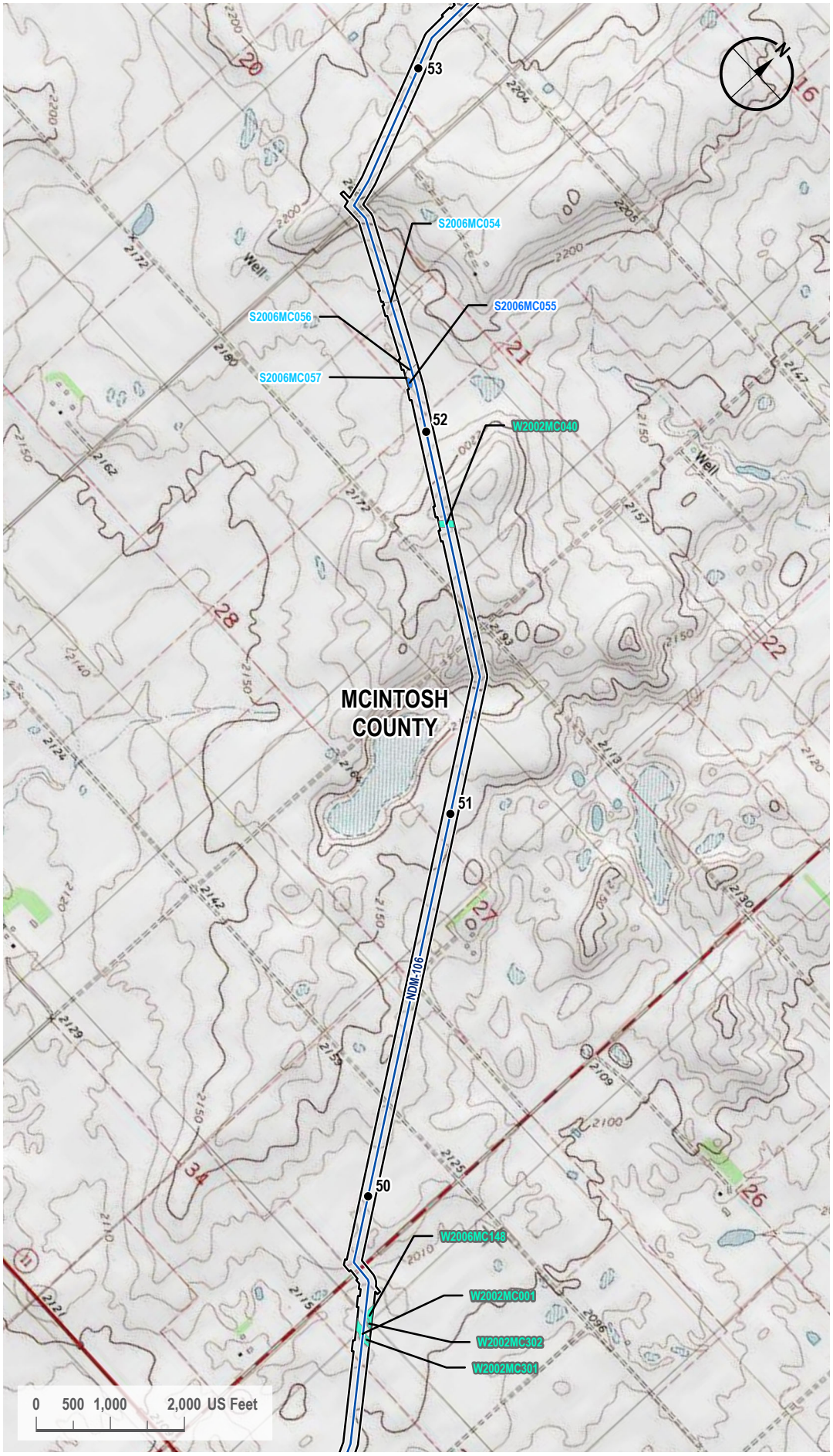

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LEGEND

- Milepost
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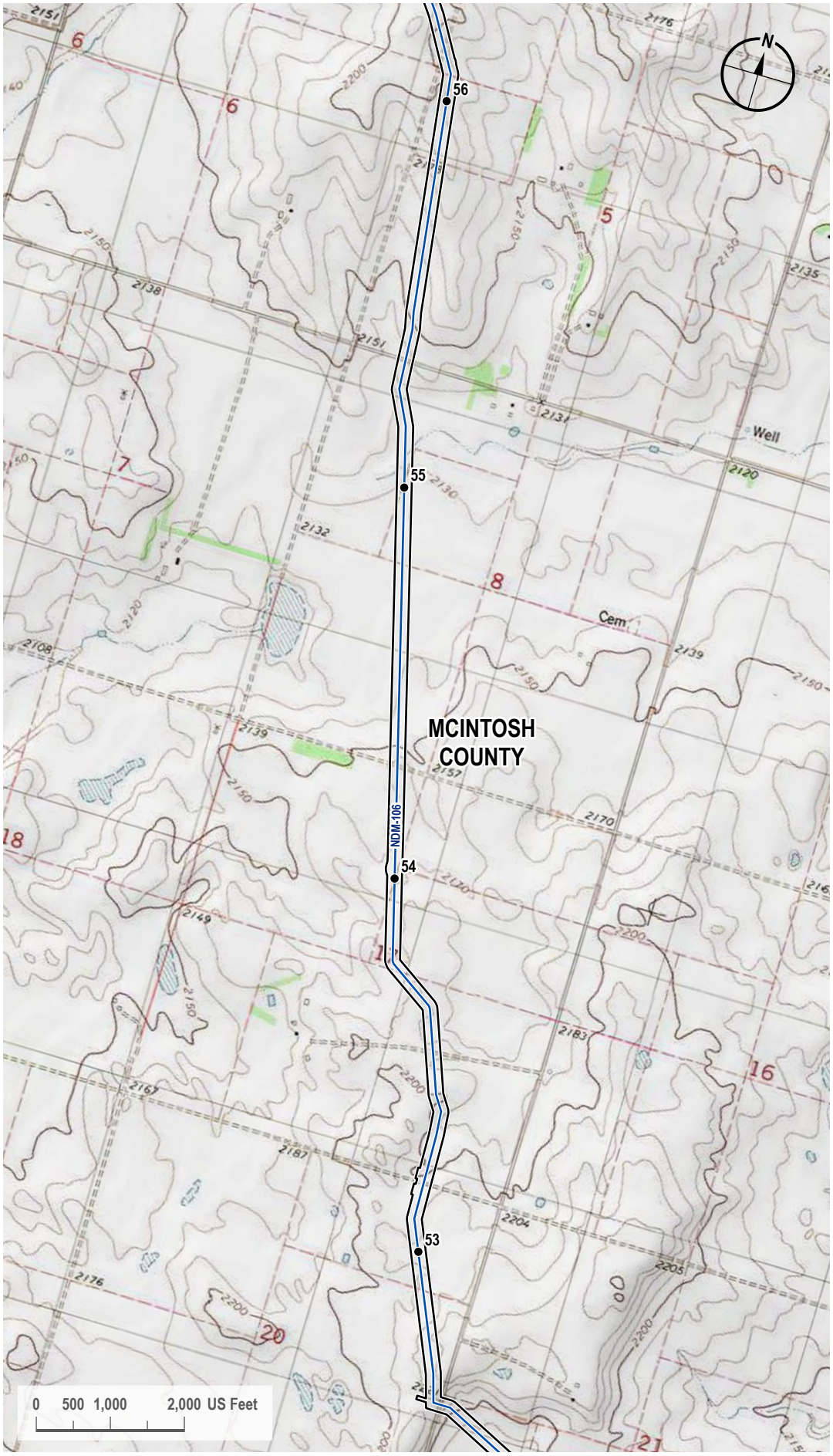

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor

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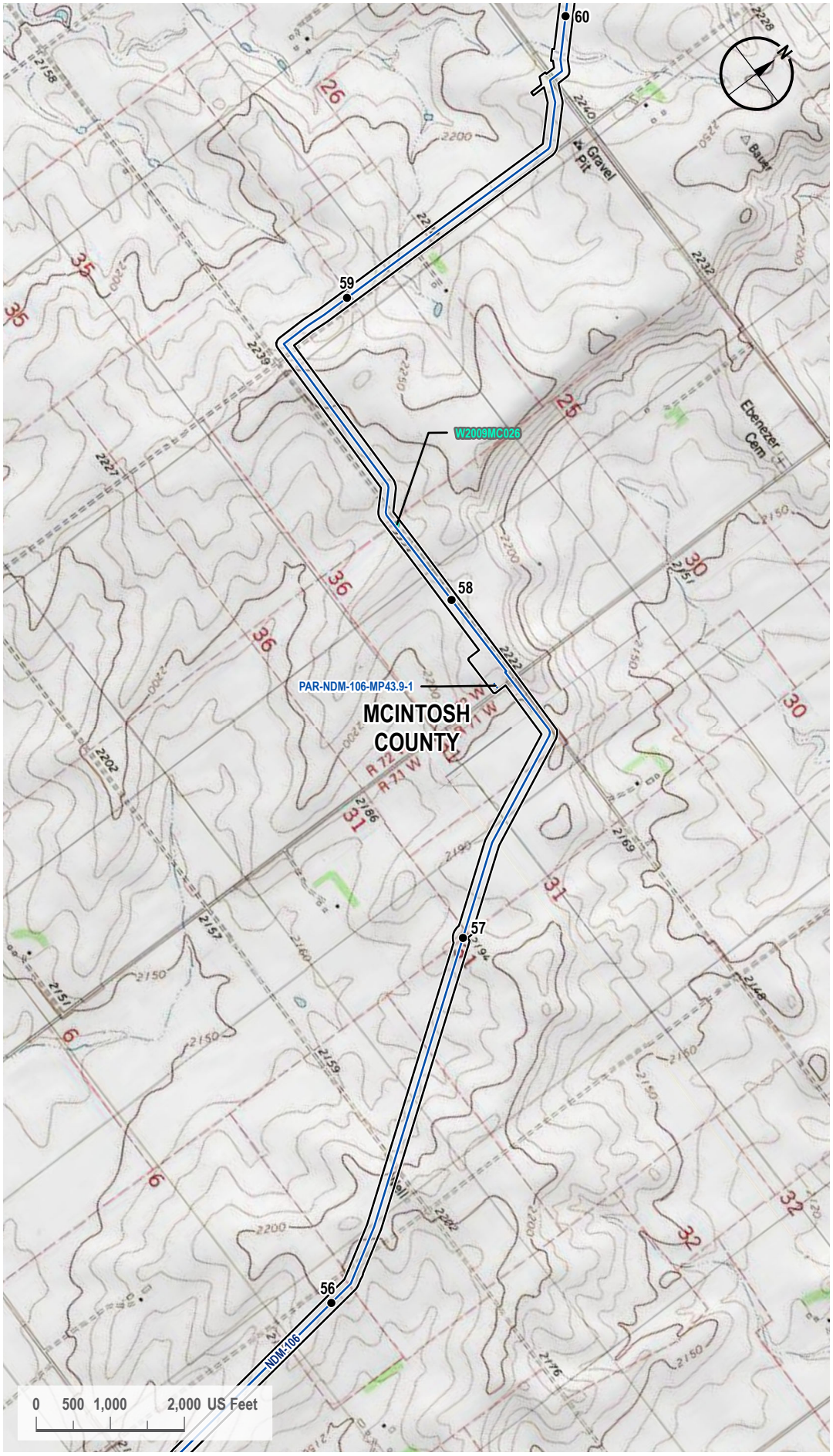

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
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- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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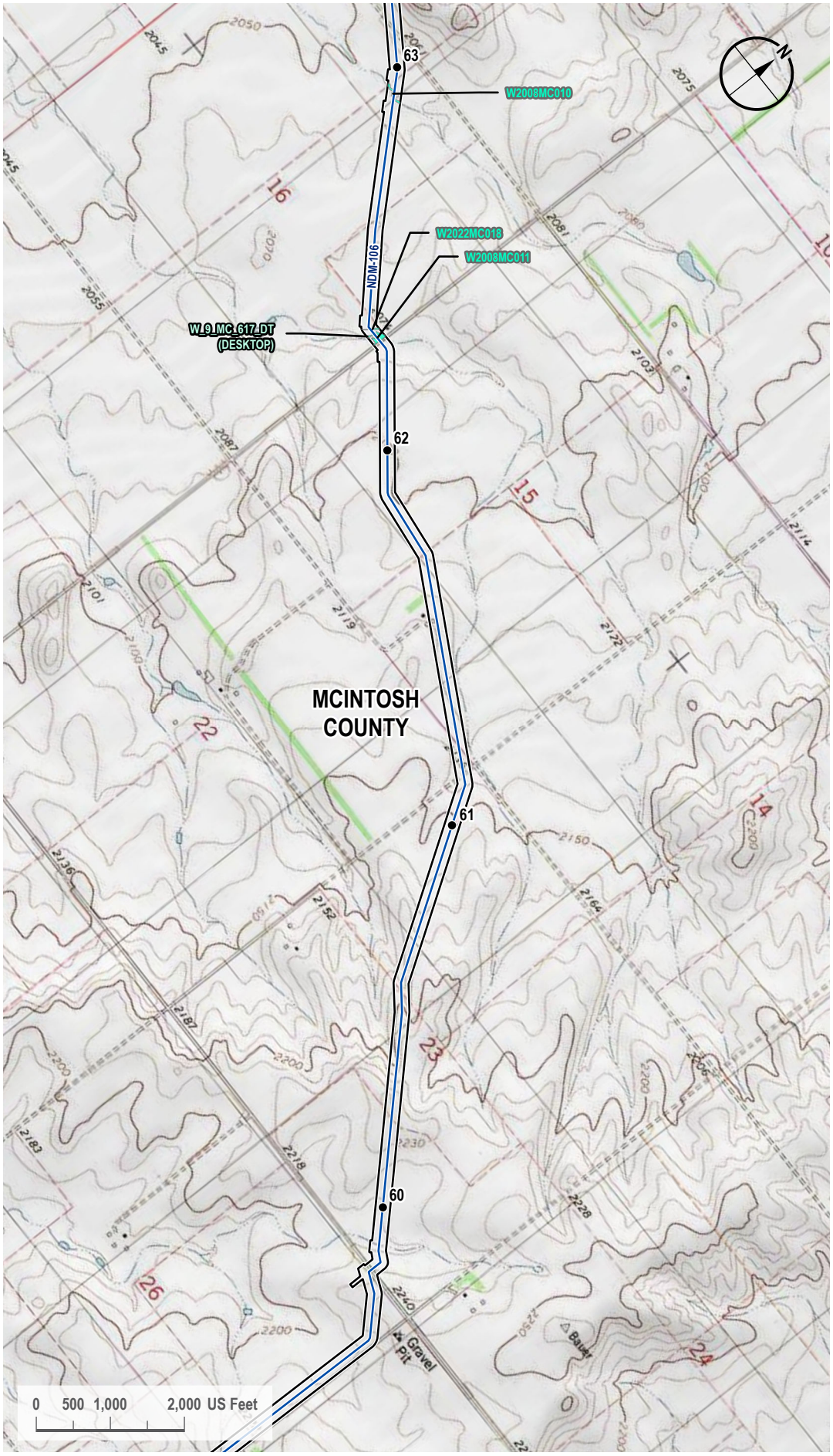

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
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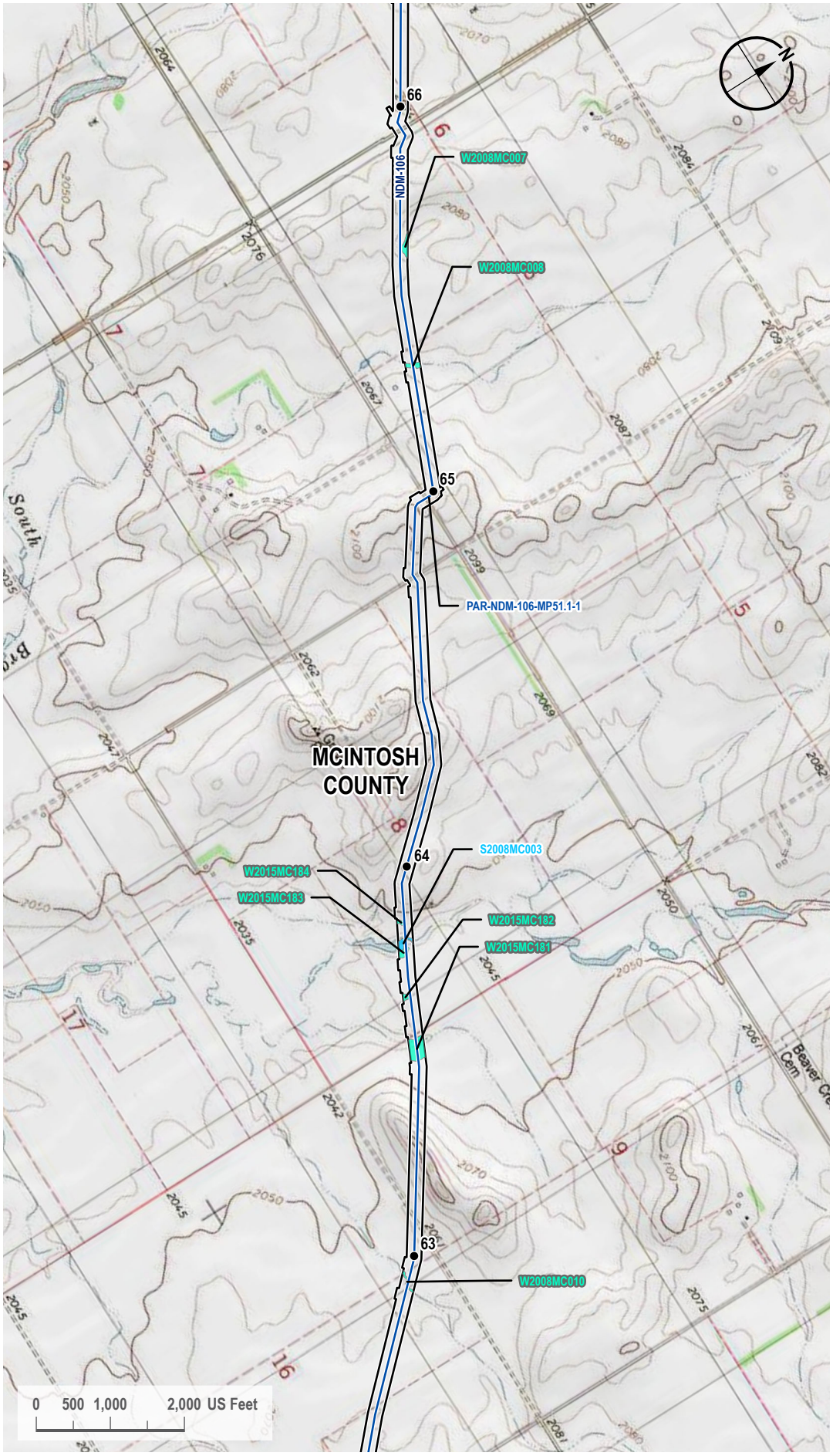

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LEGEND

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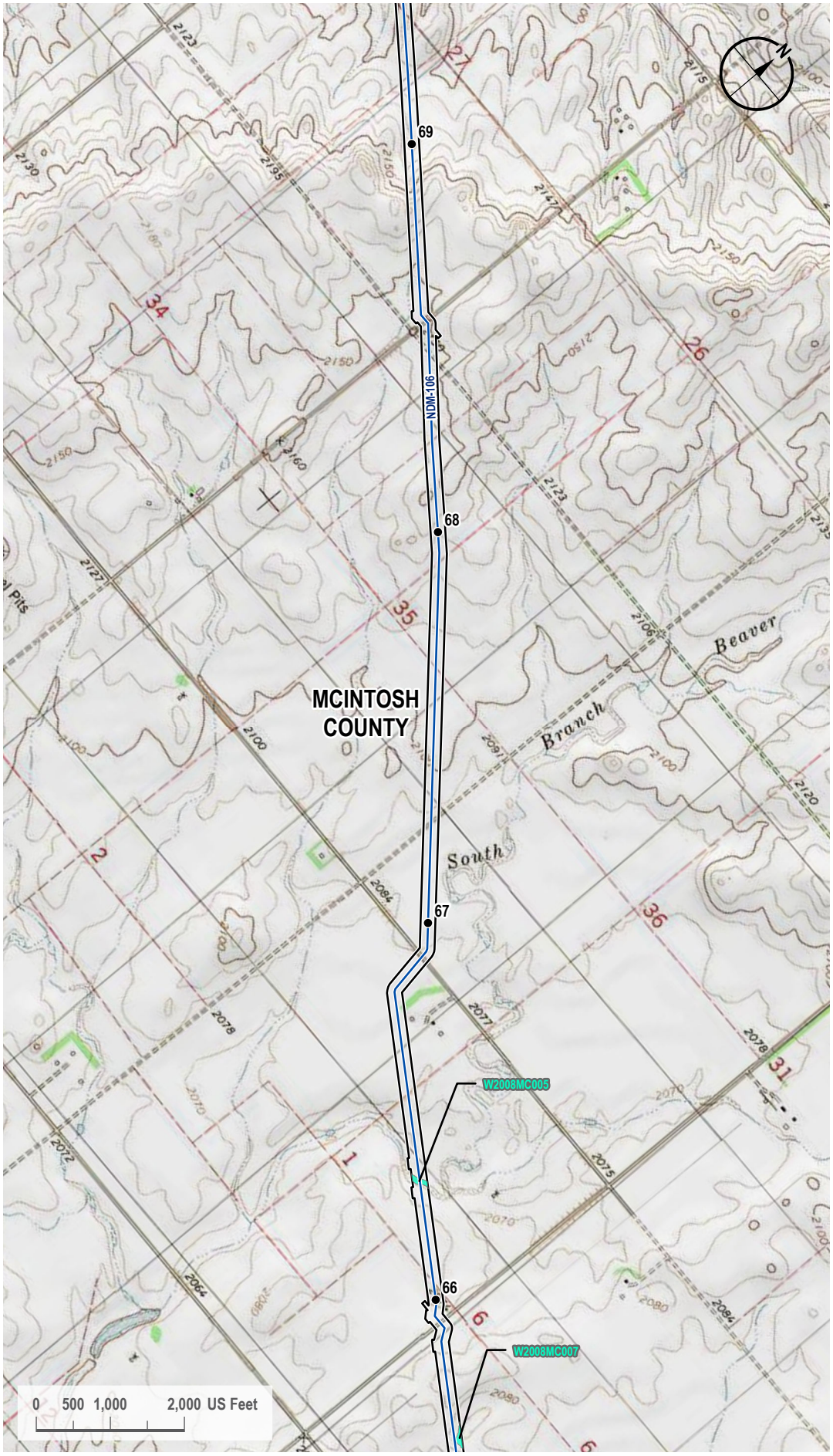

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LEGEND

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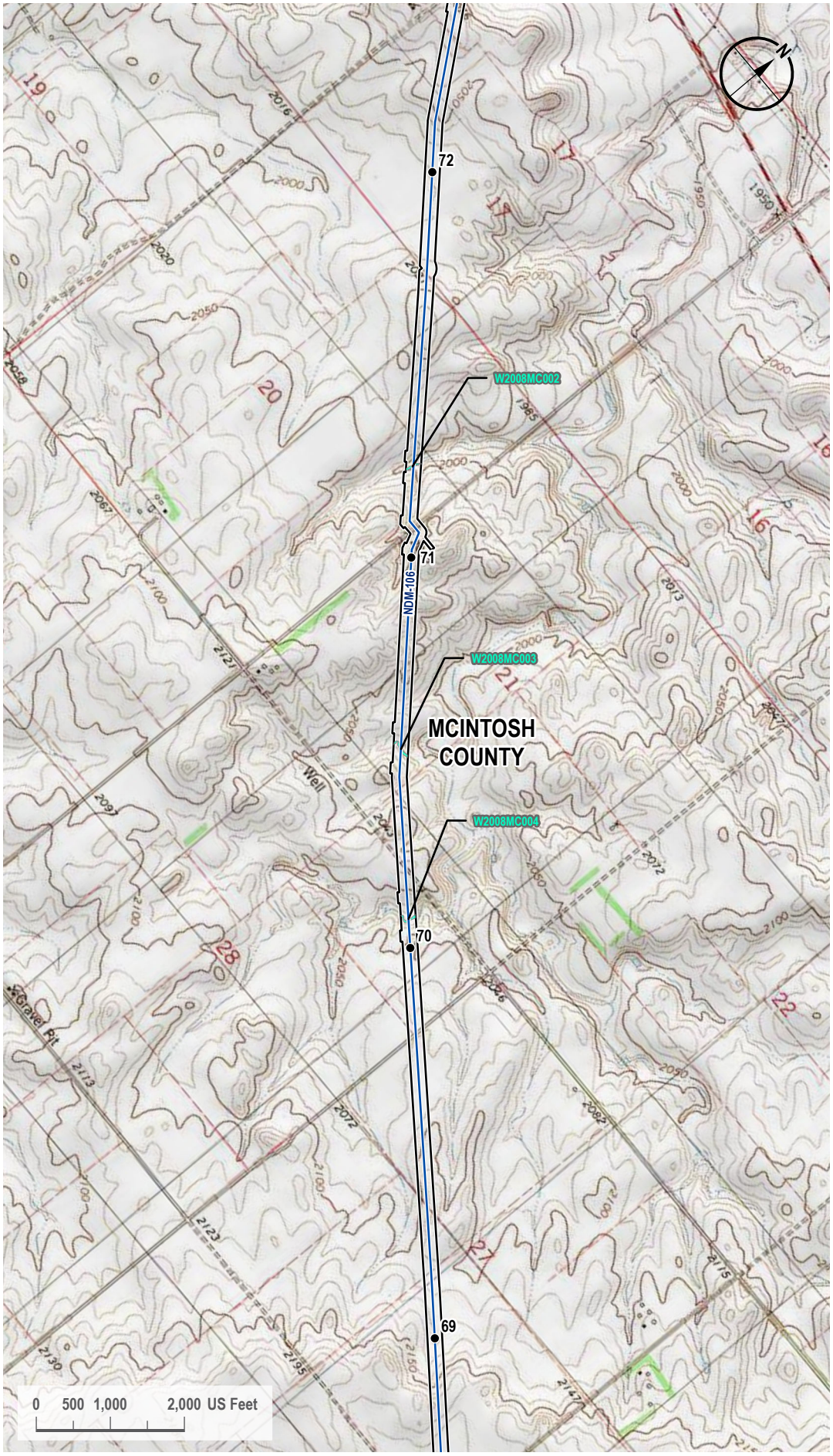

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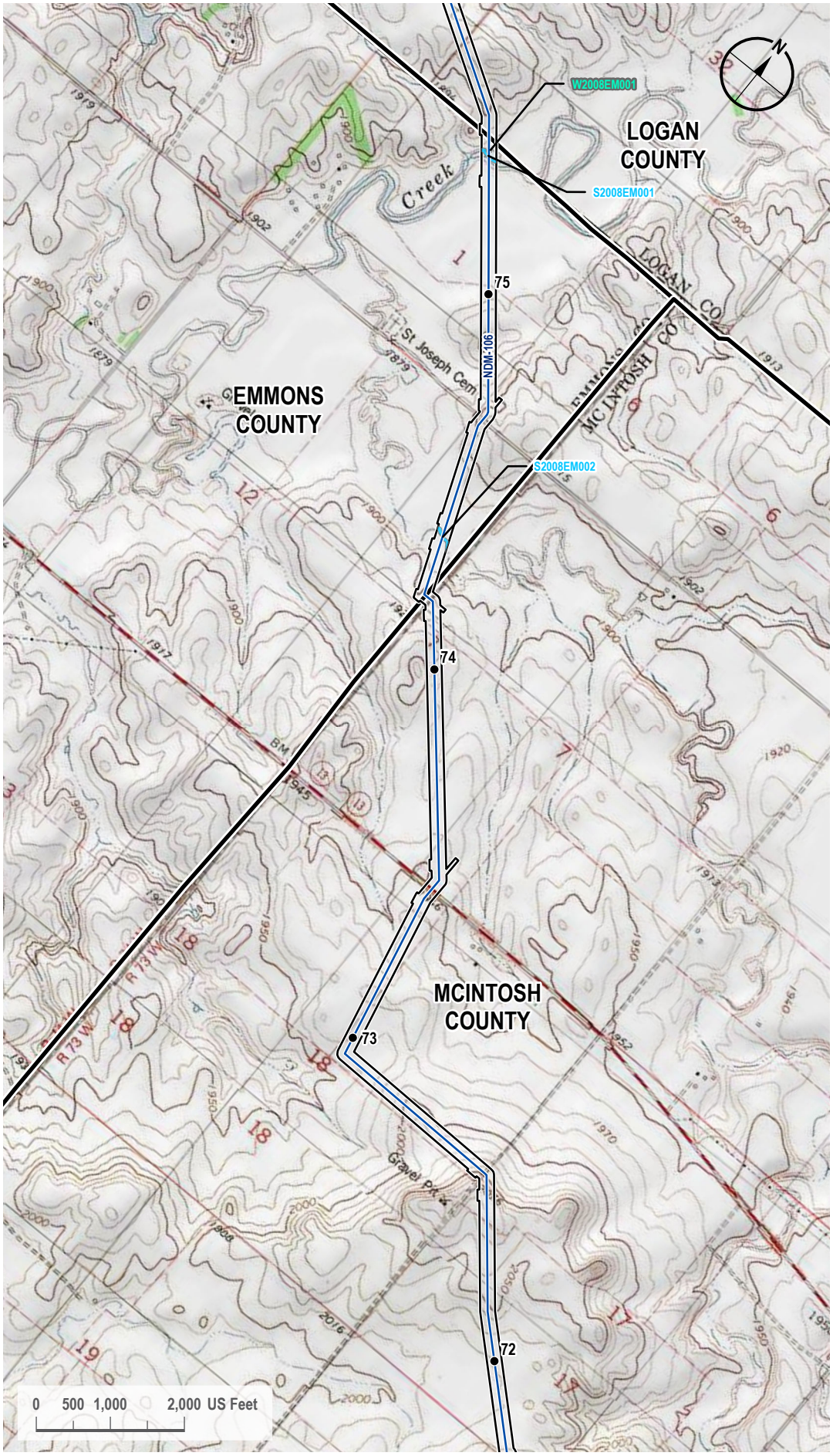

VICINITY MAP



LEGEND

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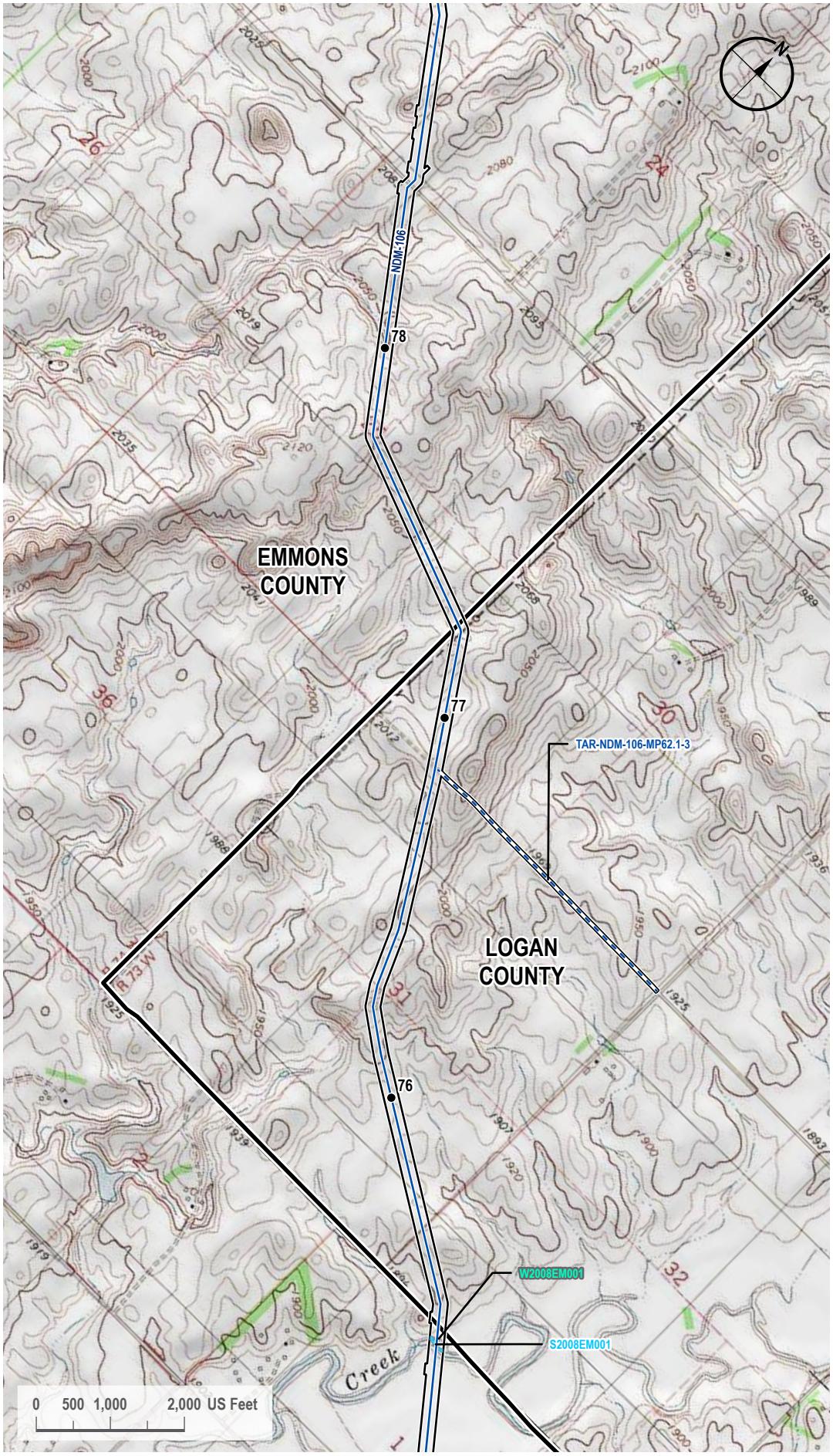

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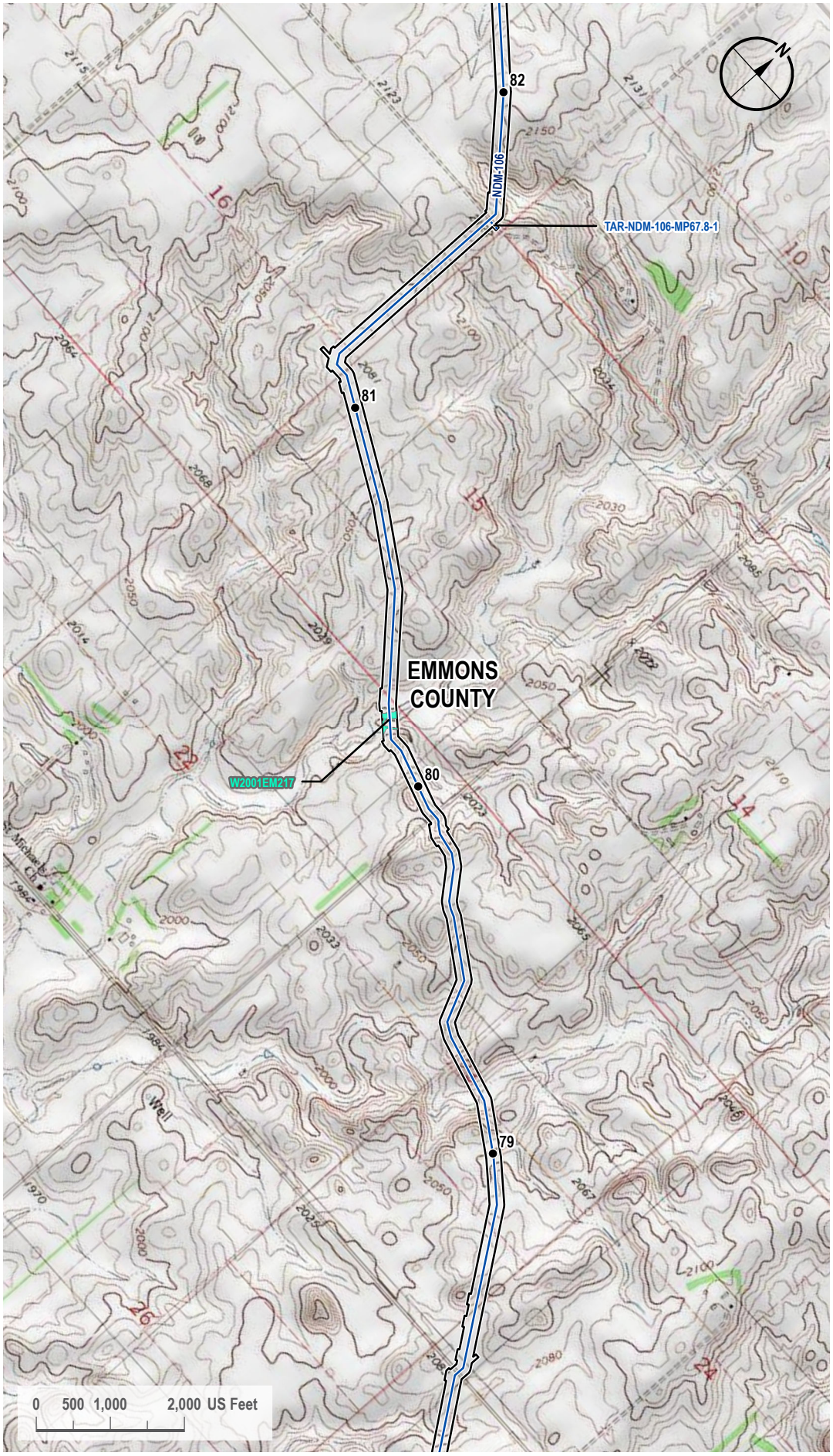

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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Figure Title:
Topographic Map

Figure Number:
Appendix A-3

Scale:	Projection:
1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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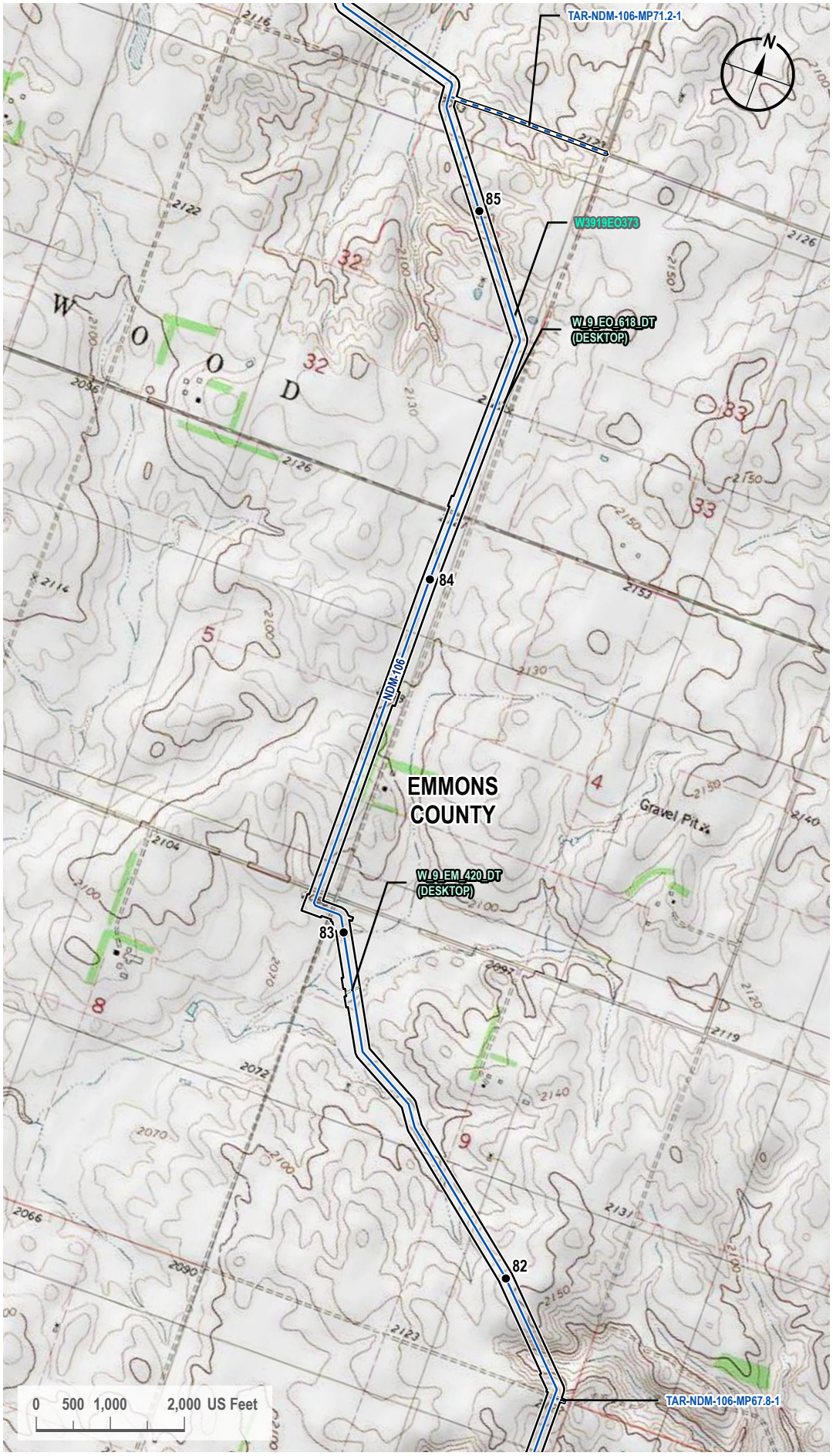

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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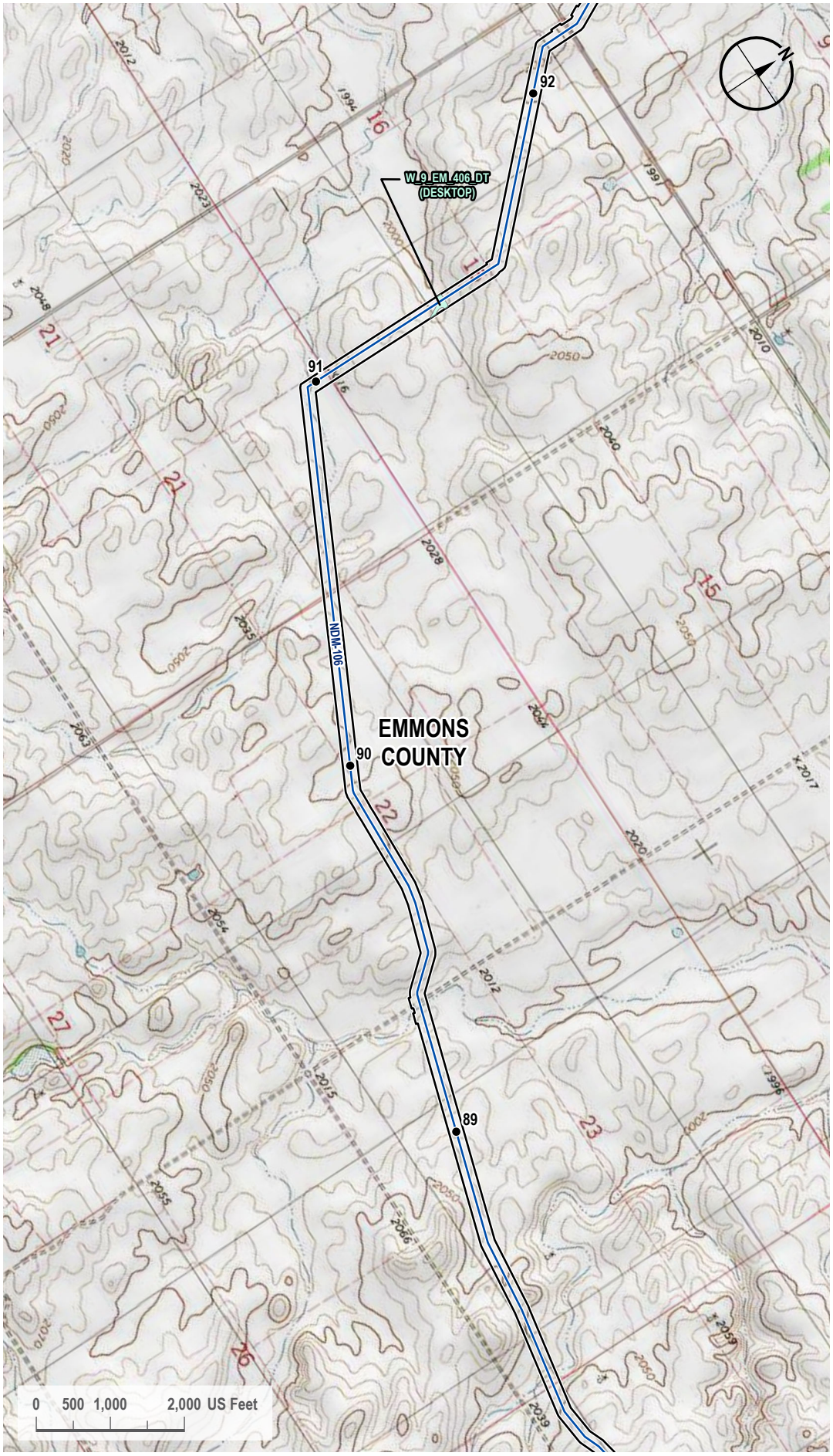

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Desktop)

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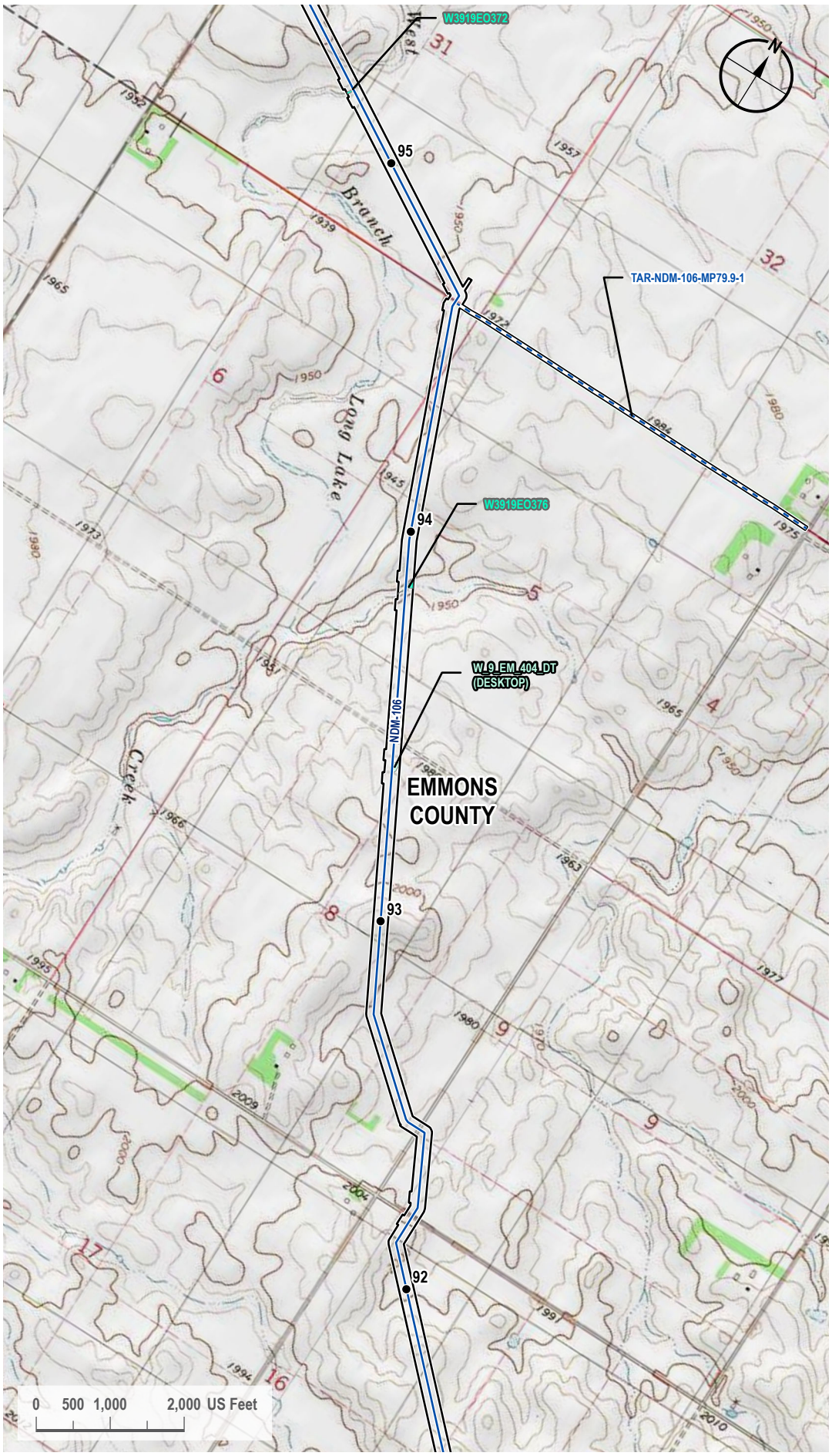

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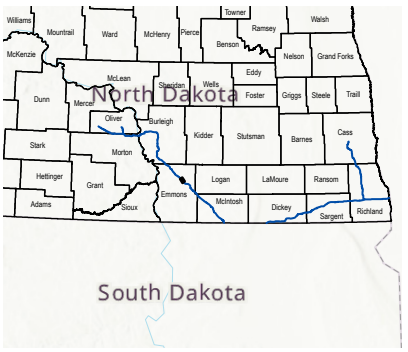

LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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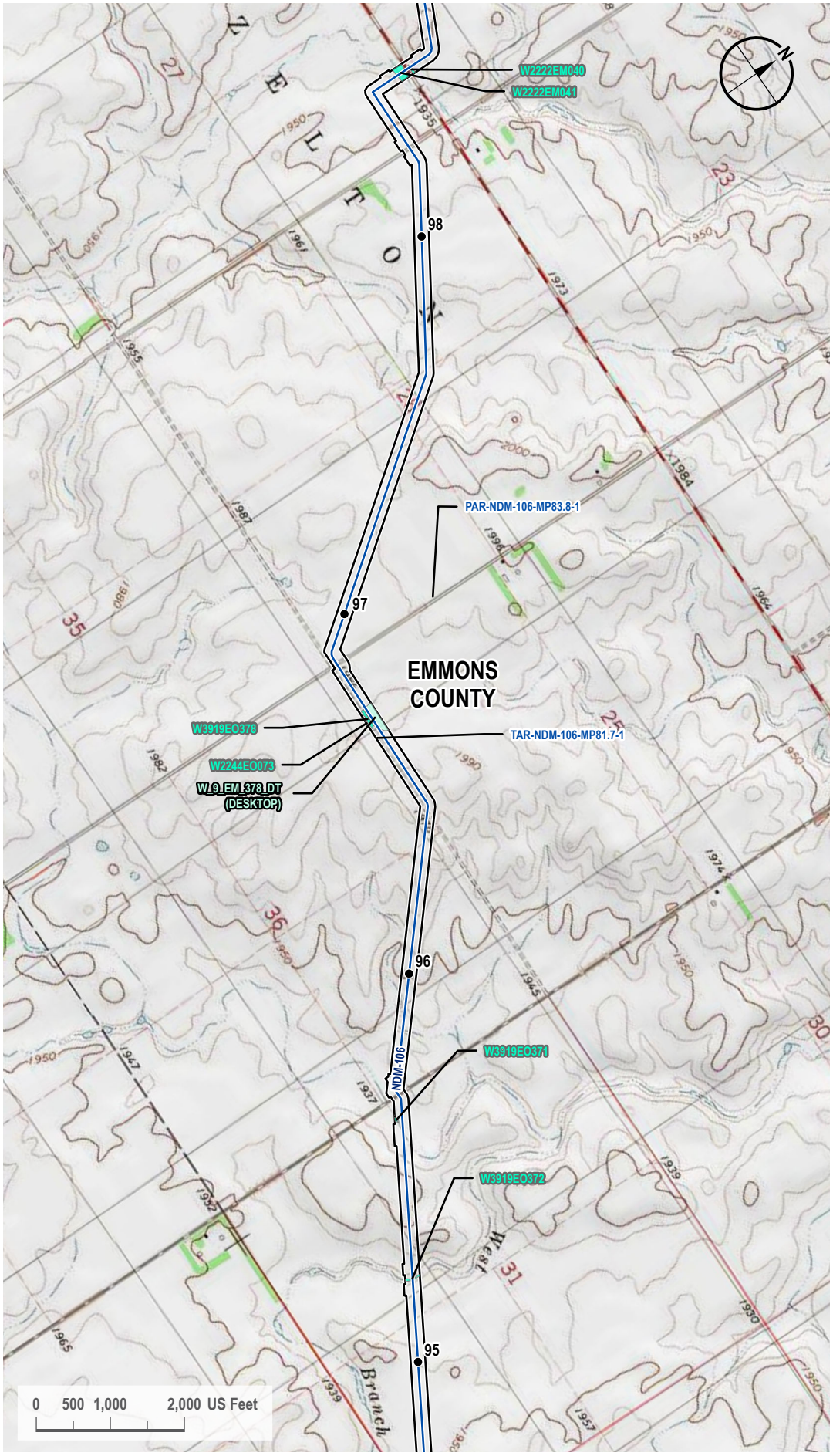

VICINITY MAP



LEGEND

- Milepost
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- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
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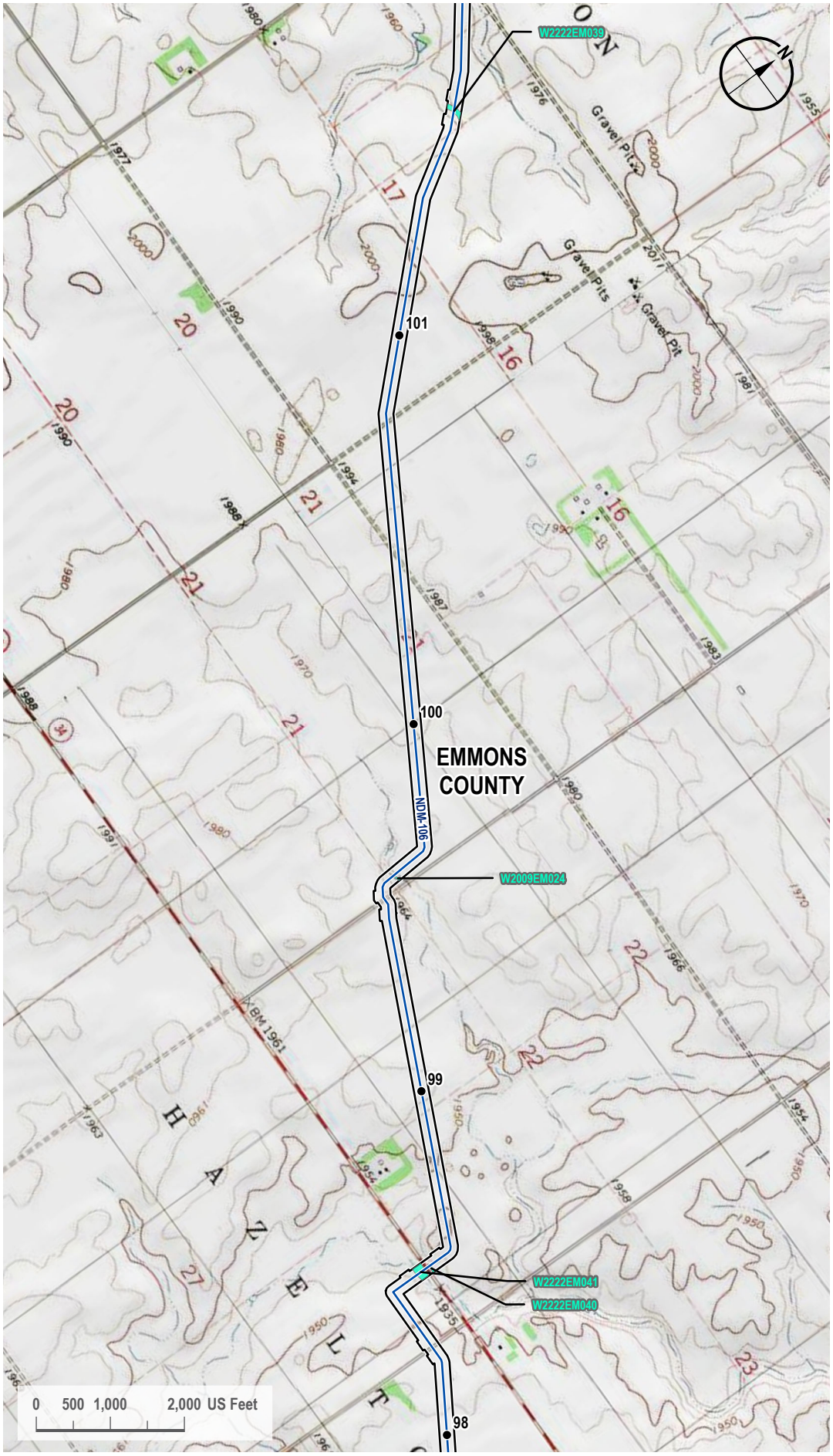

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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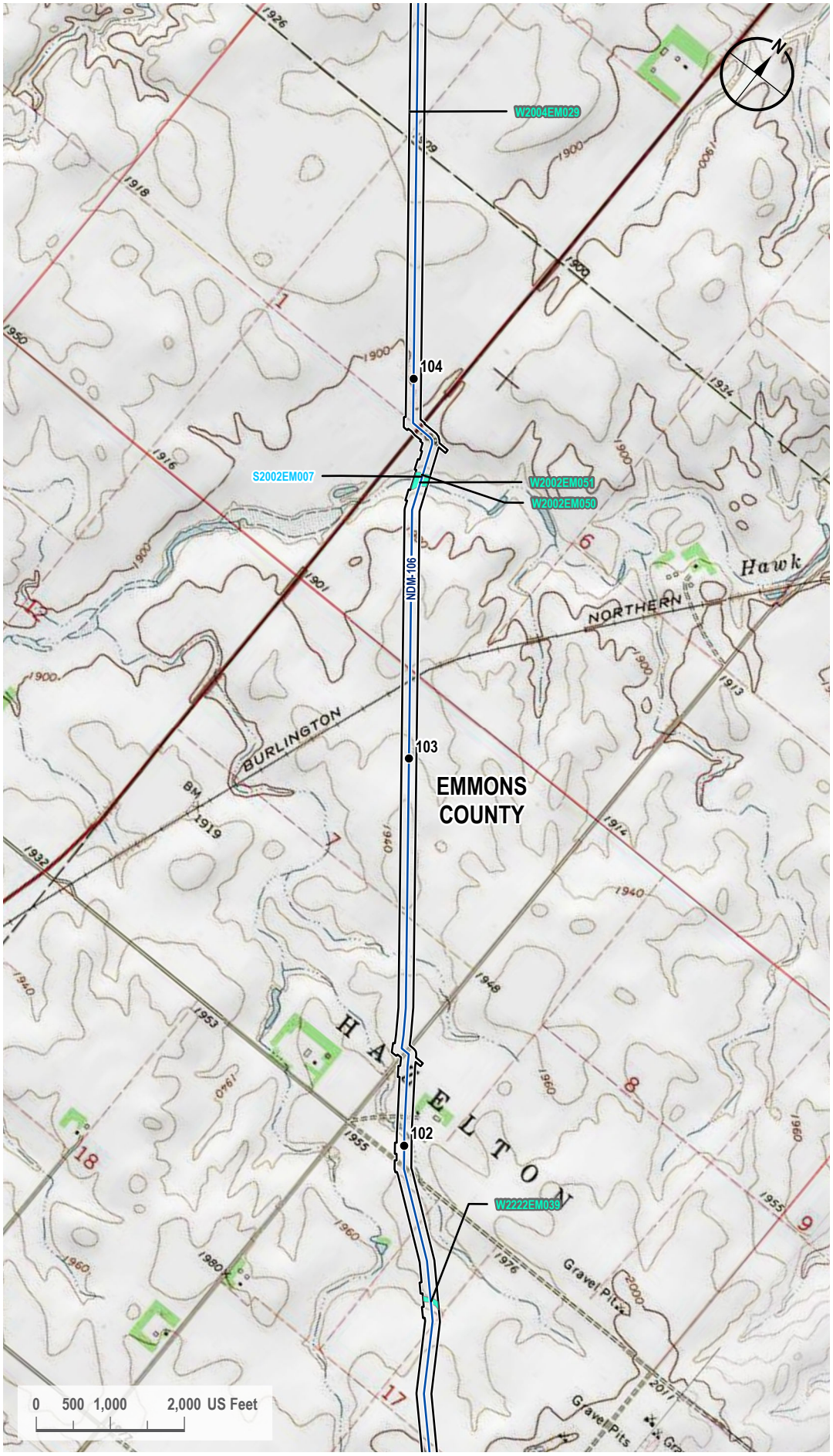

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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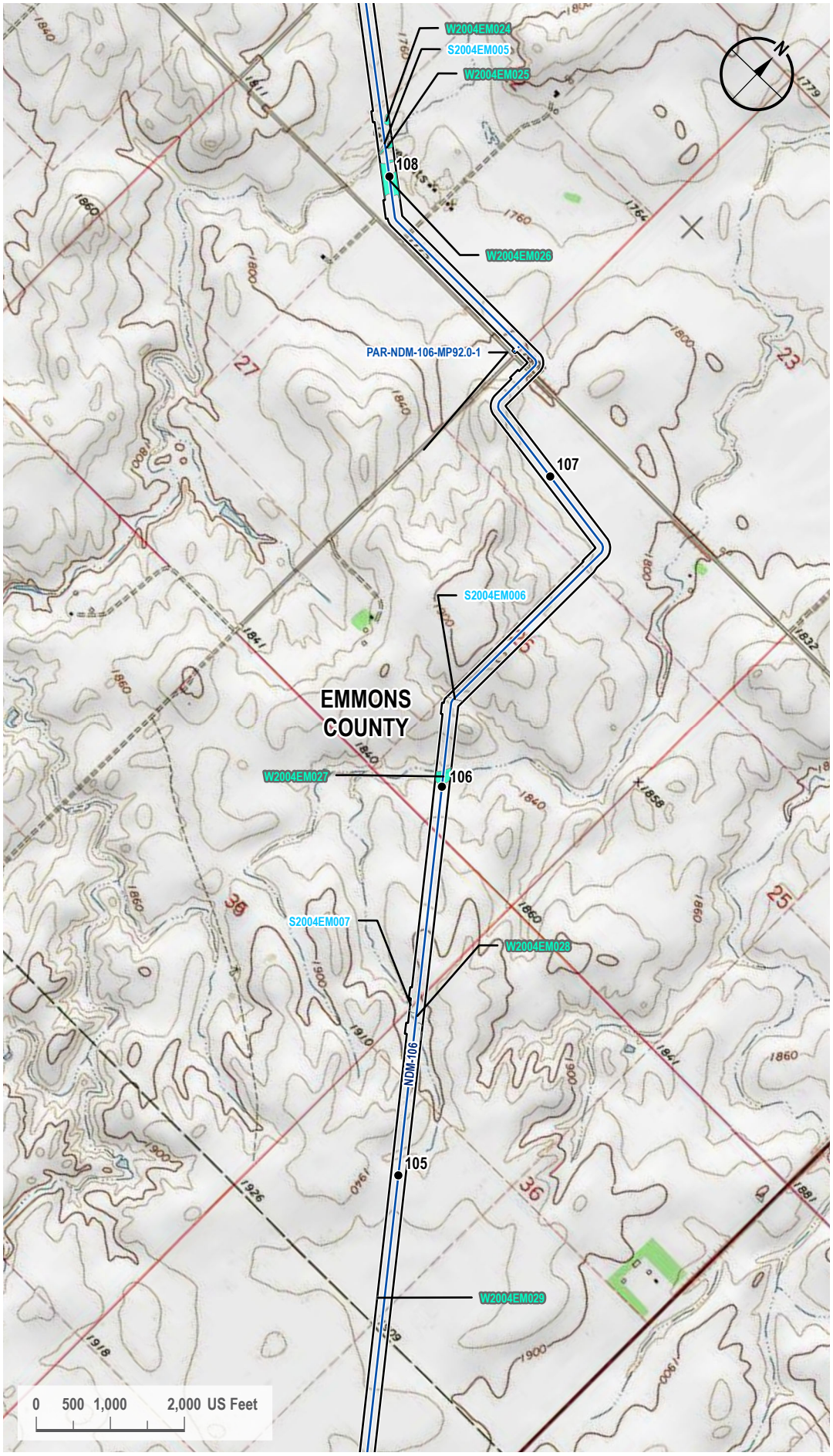

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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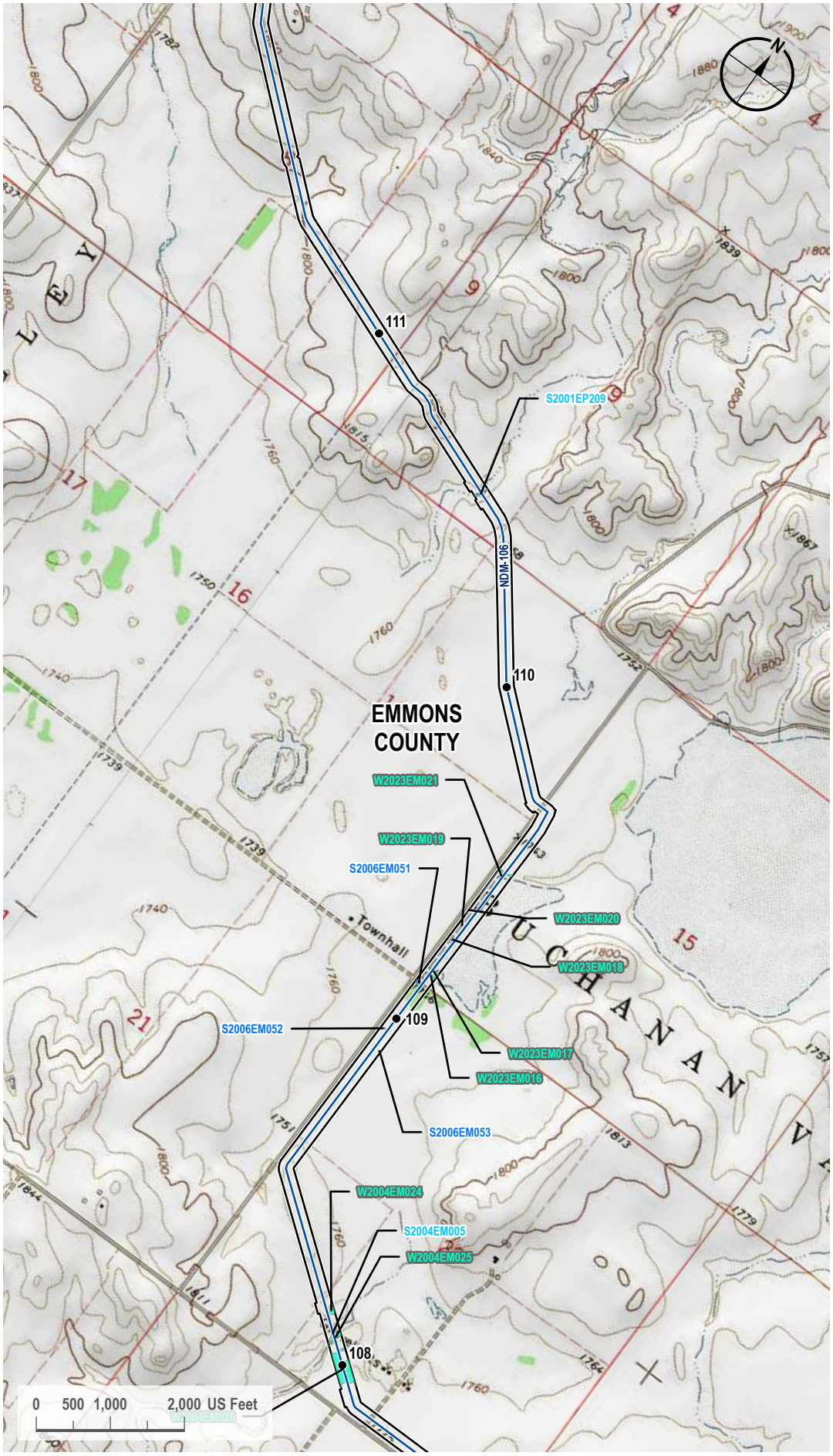

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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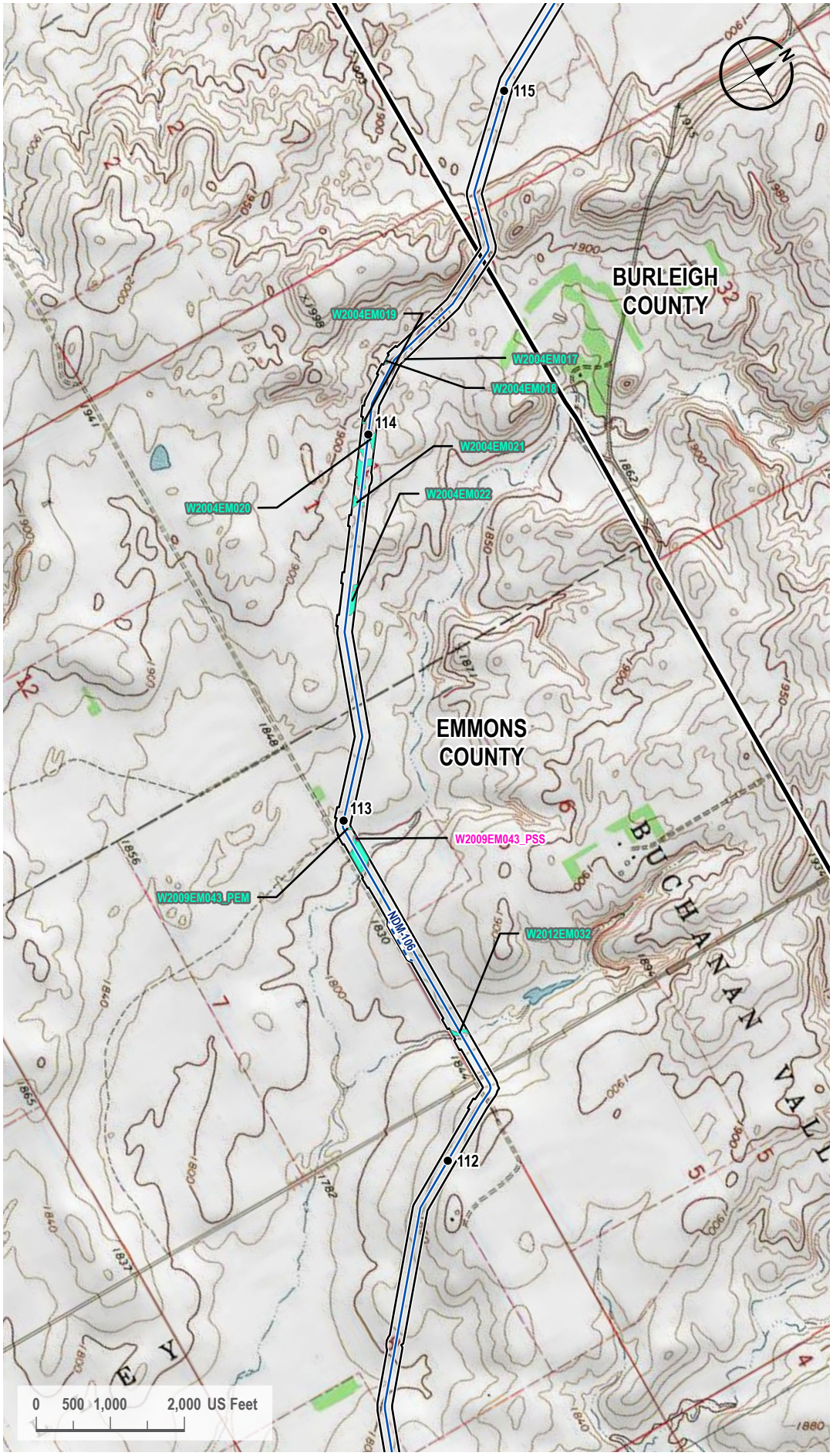

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- County Line
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Scrub-Shrub Wetland (Surveyed)

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Appendix A-3

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- County Line
- 200-foot Siting Corridor

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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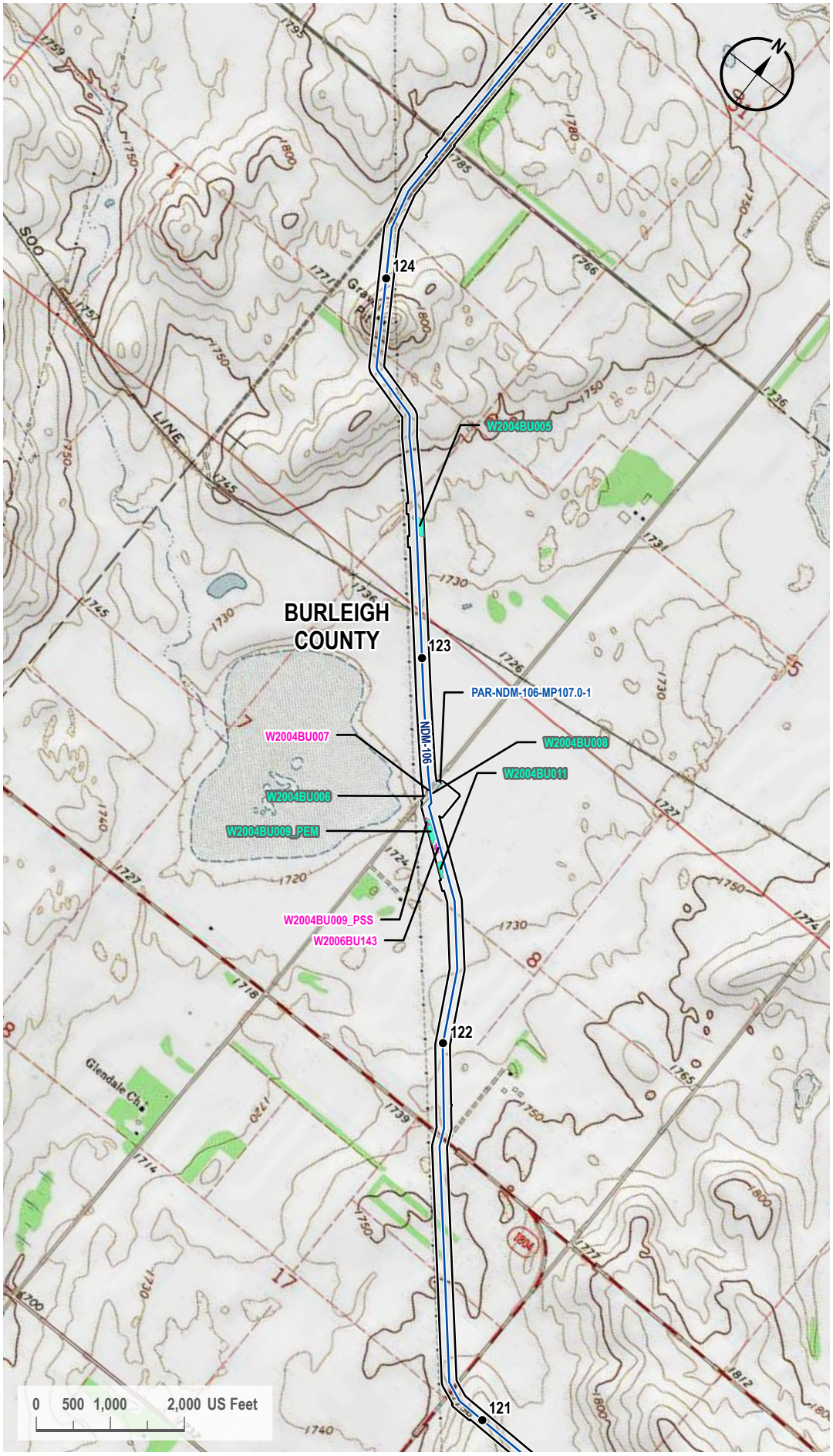

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Scrub-Shrub Wetland (Surveyed)

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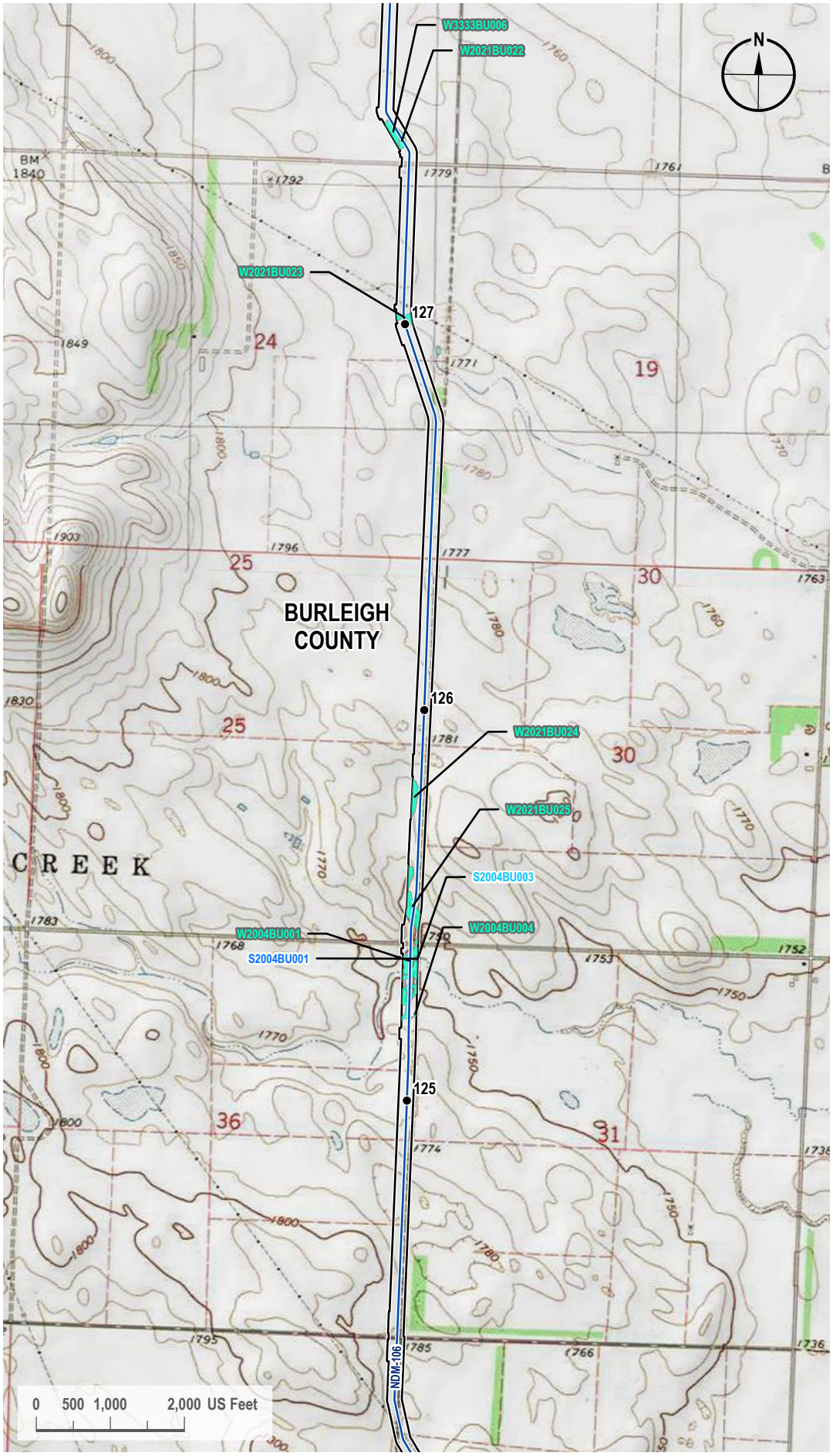

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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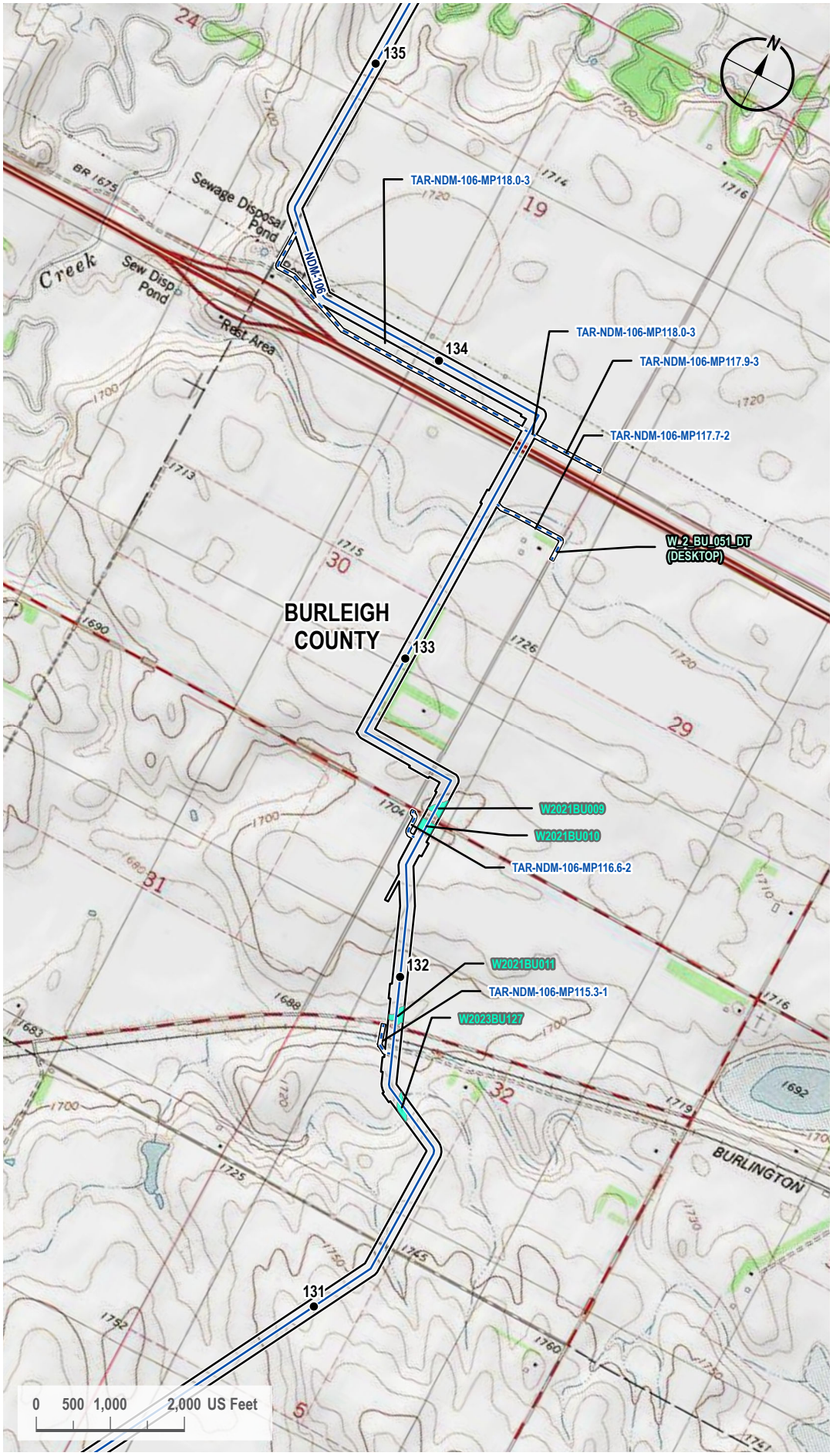

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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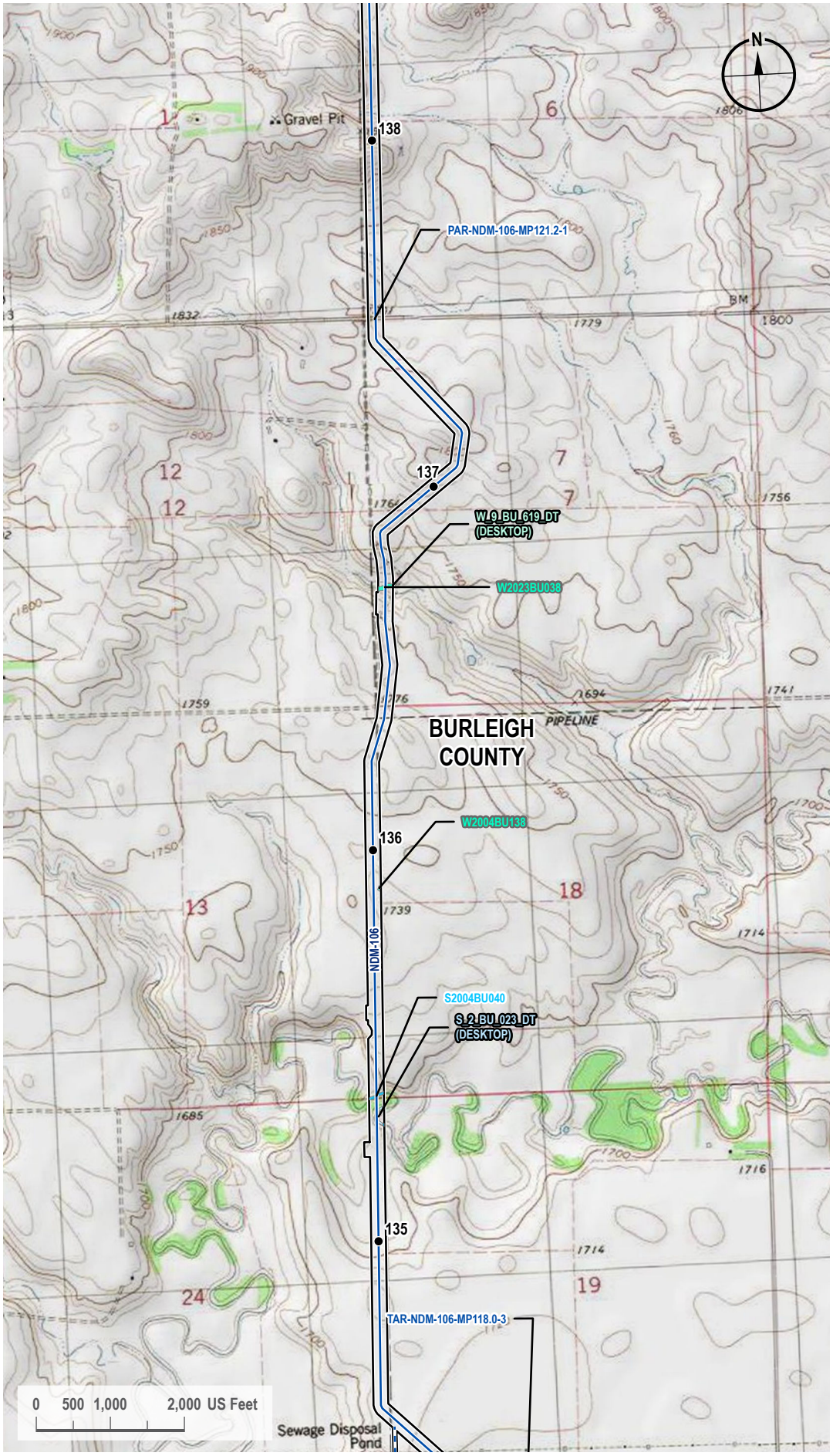

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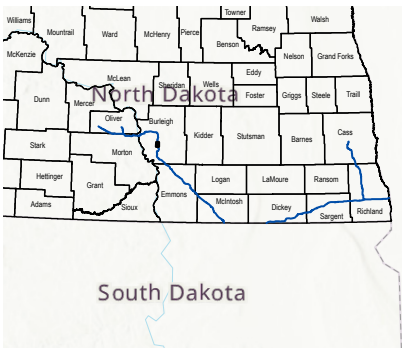

LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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Appendix A-3

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Sheet:	**Drawing Number:**
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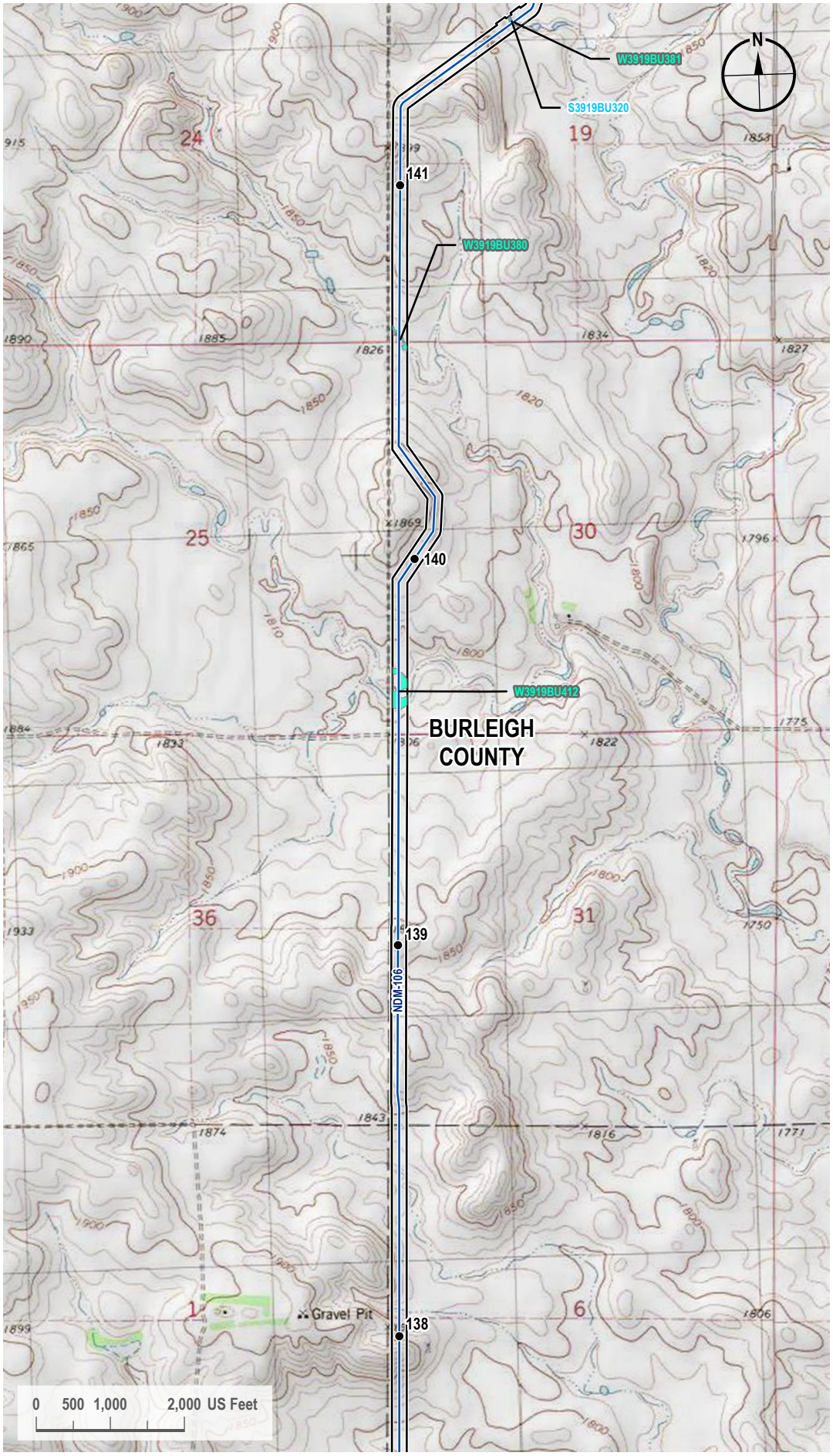

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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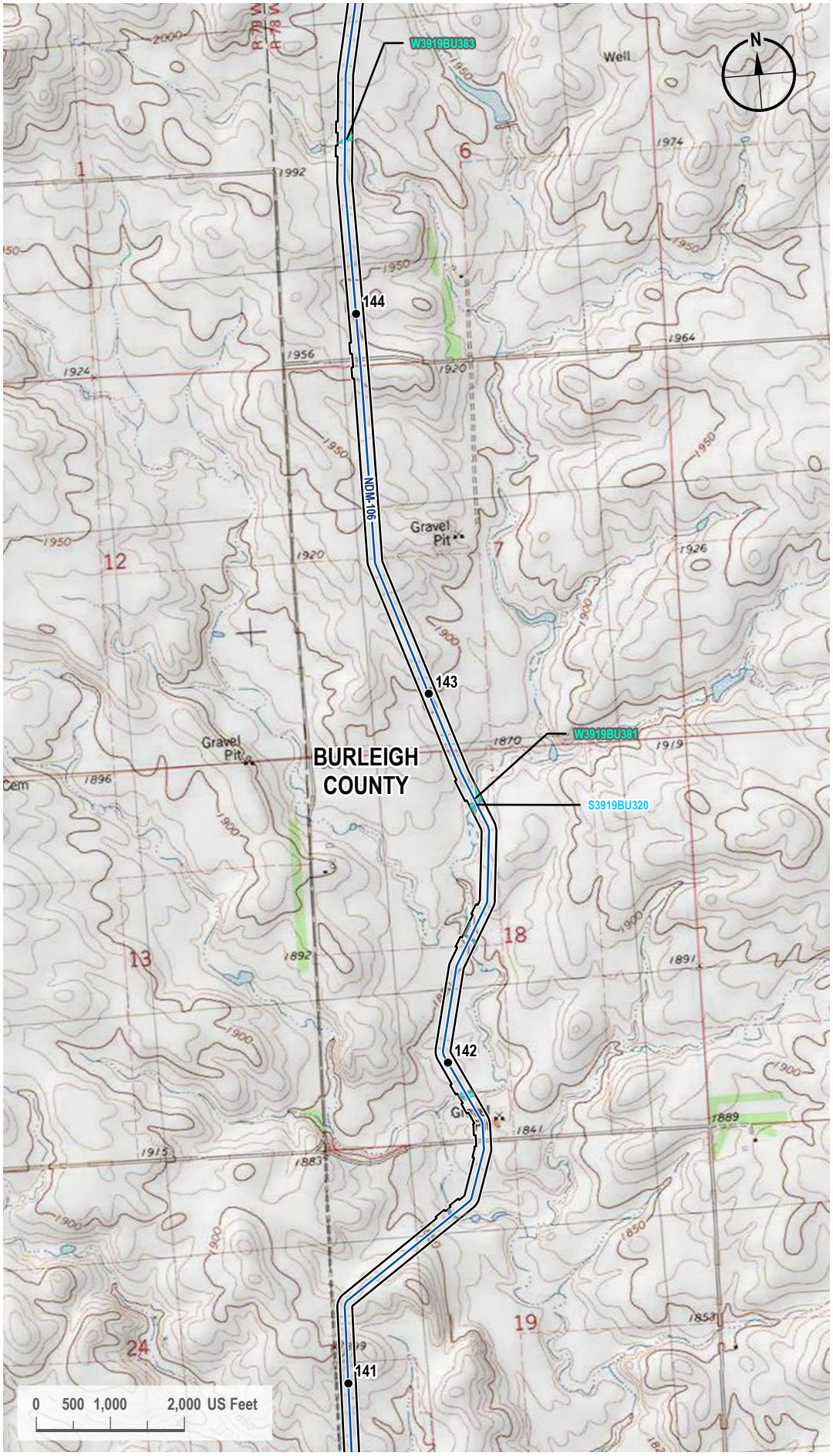

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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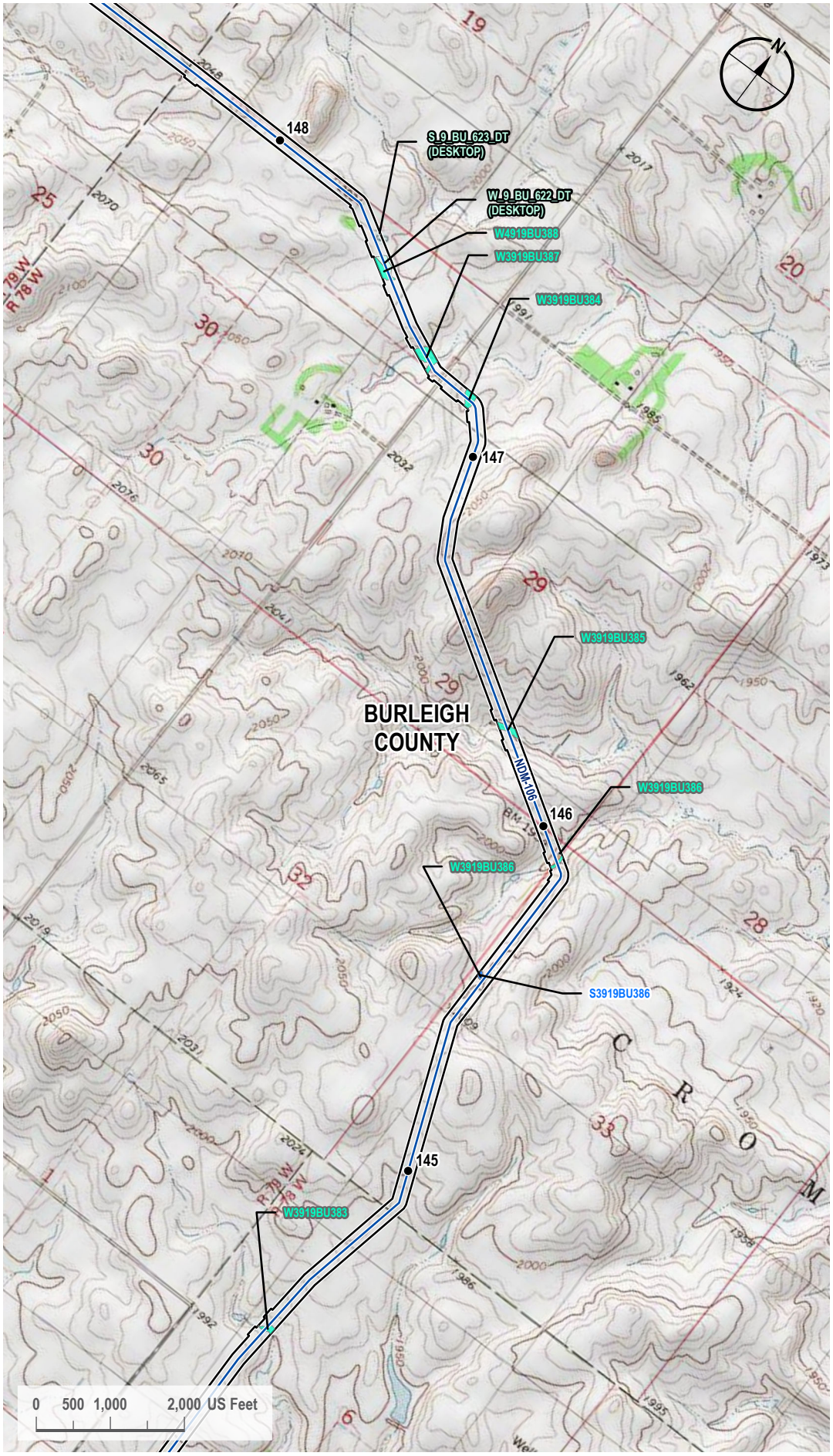

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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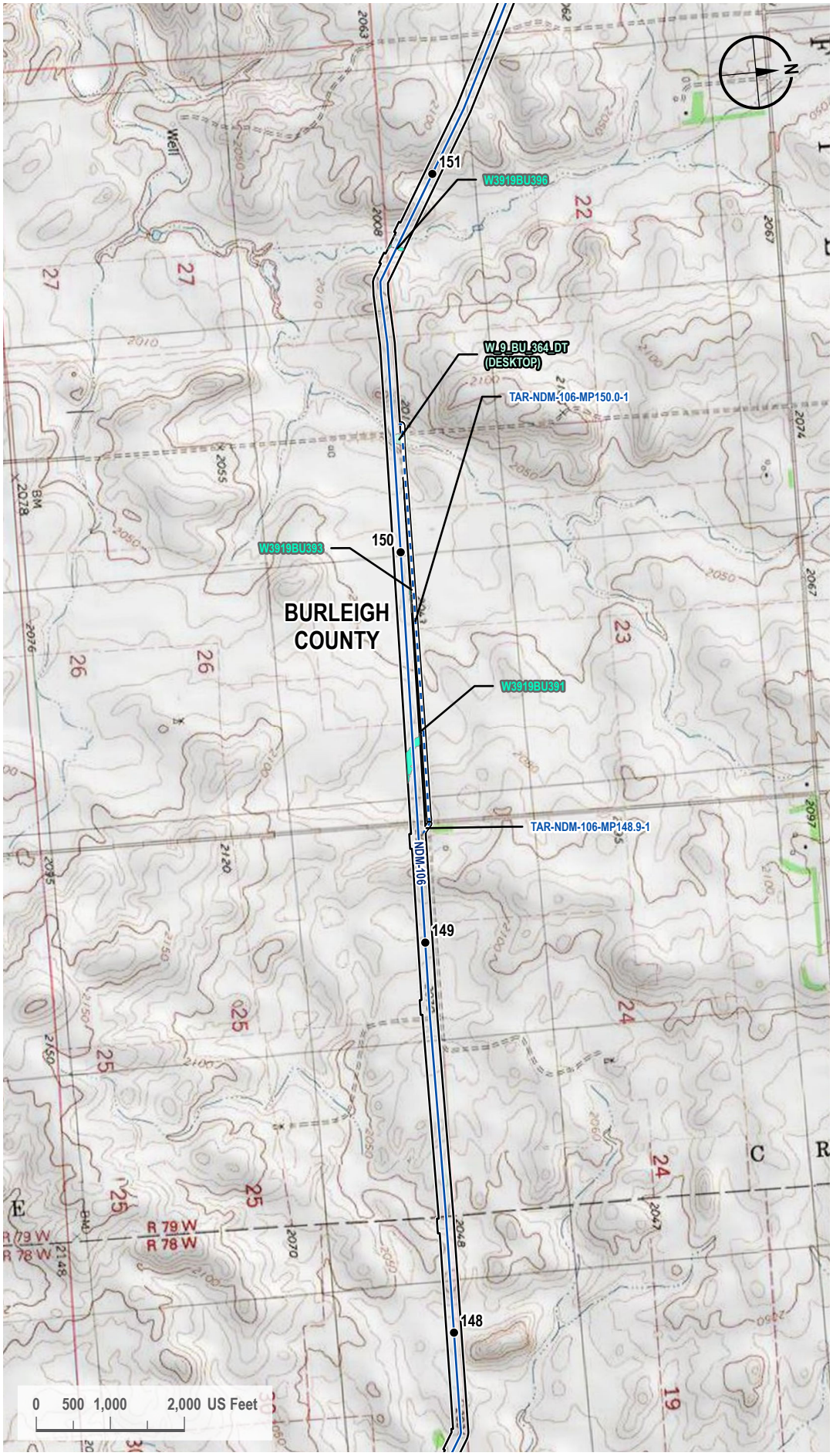

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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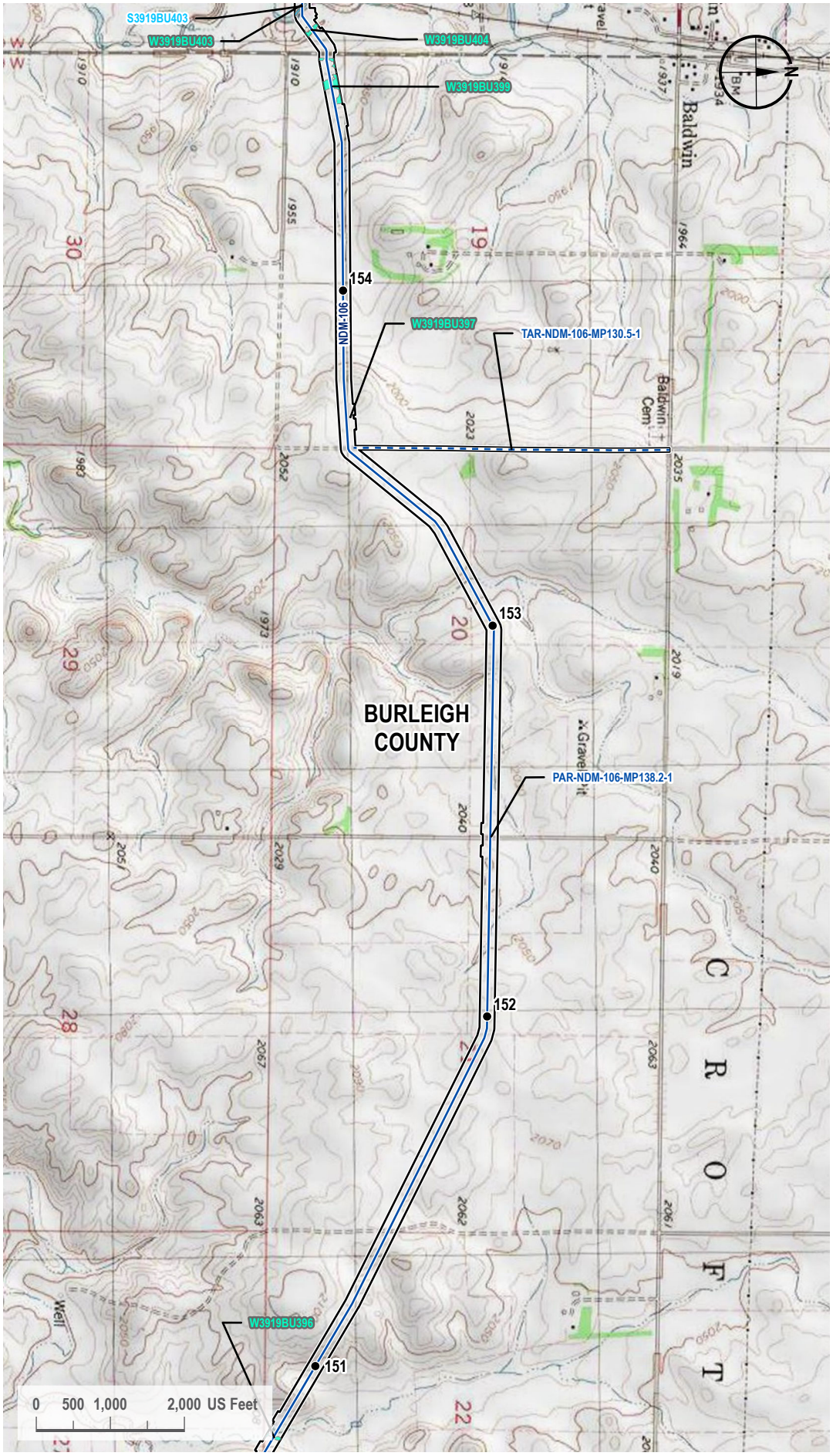

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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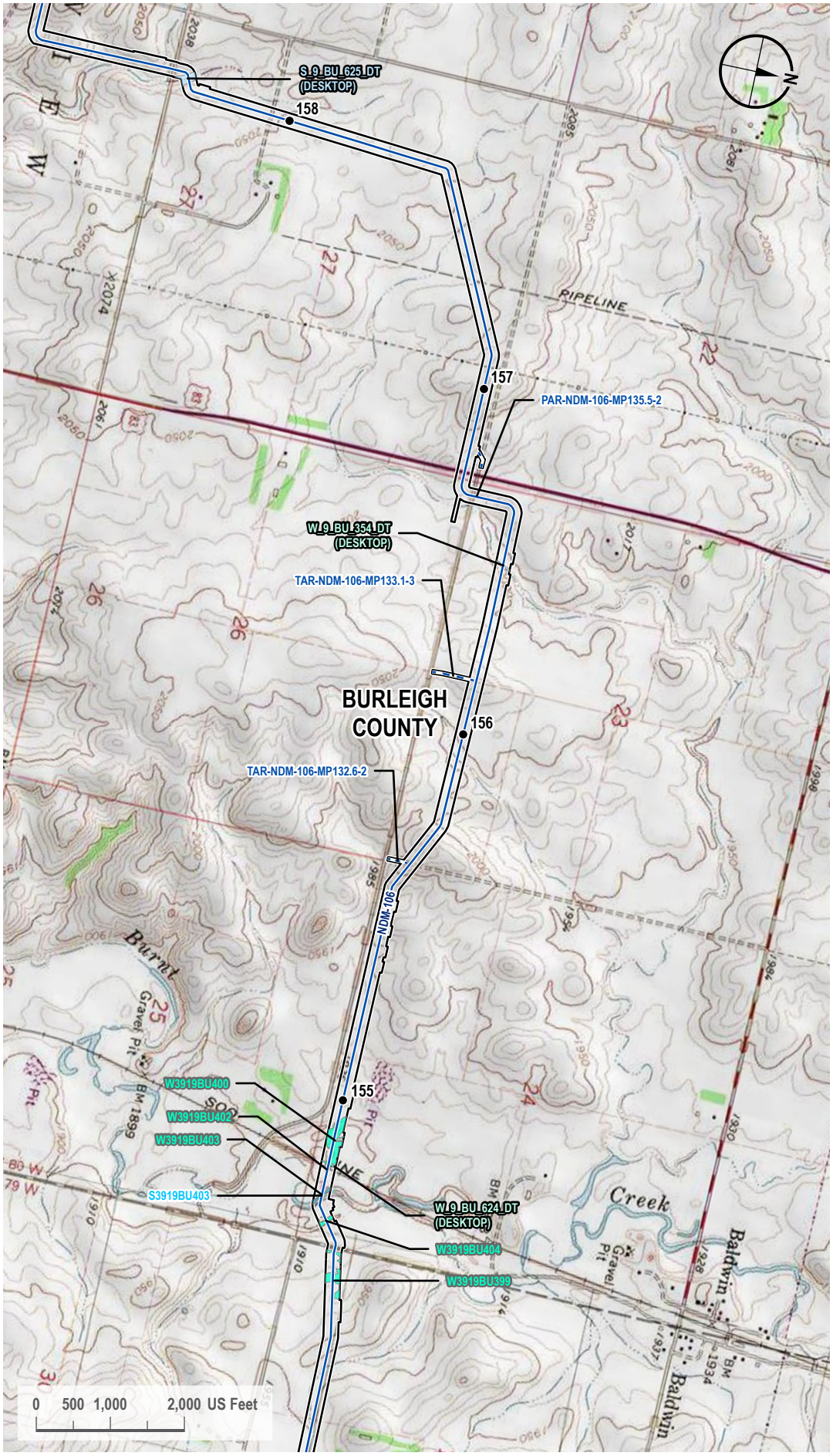

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Desktop)
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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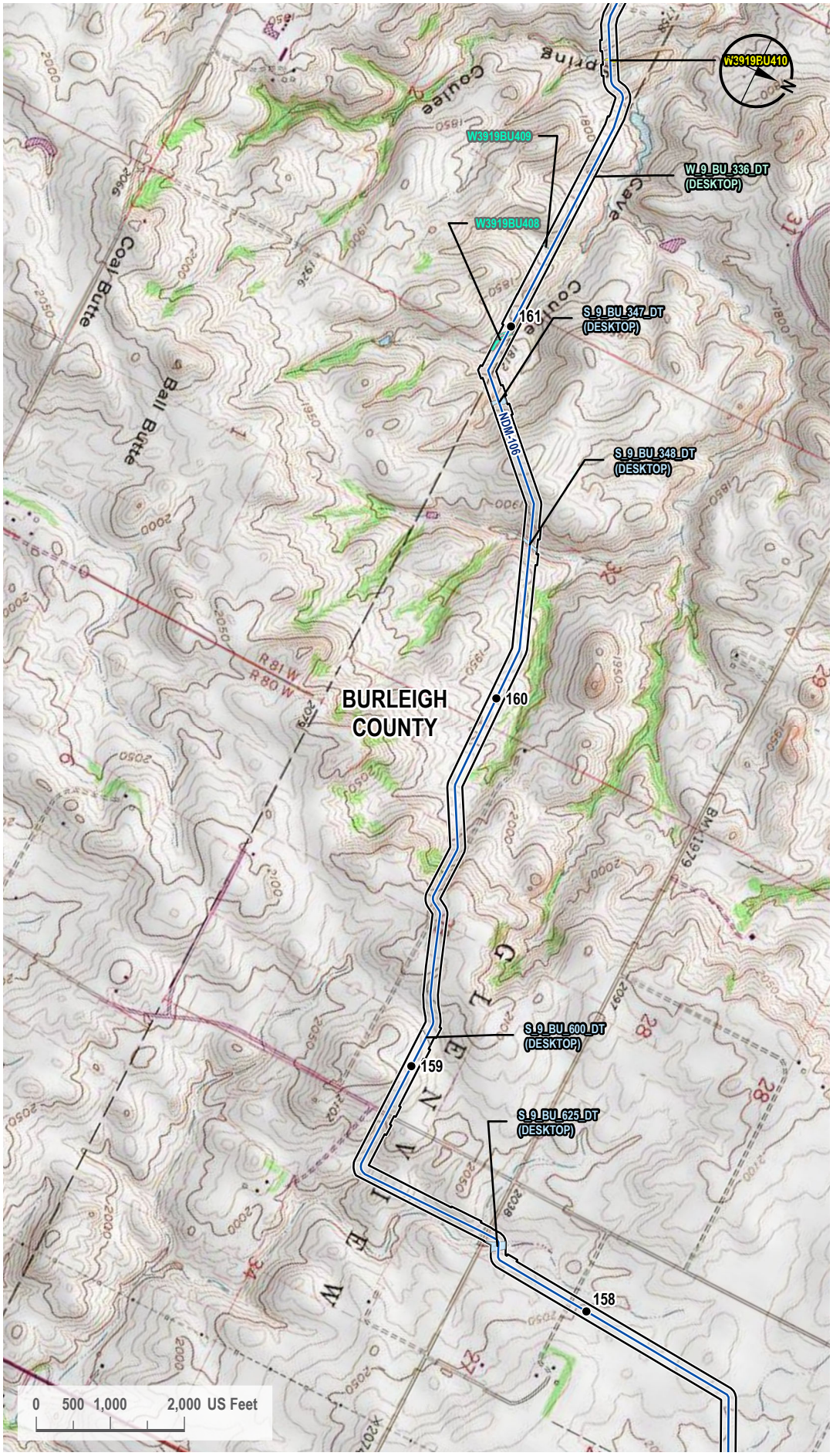

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Desktop)
- Palustrine Emergent Wetland (Surveyed)
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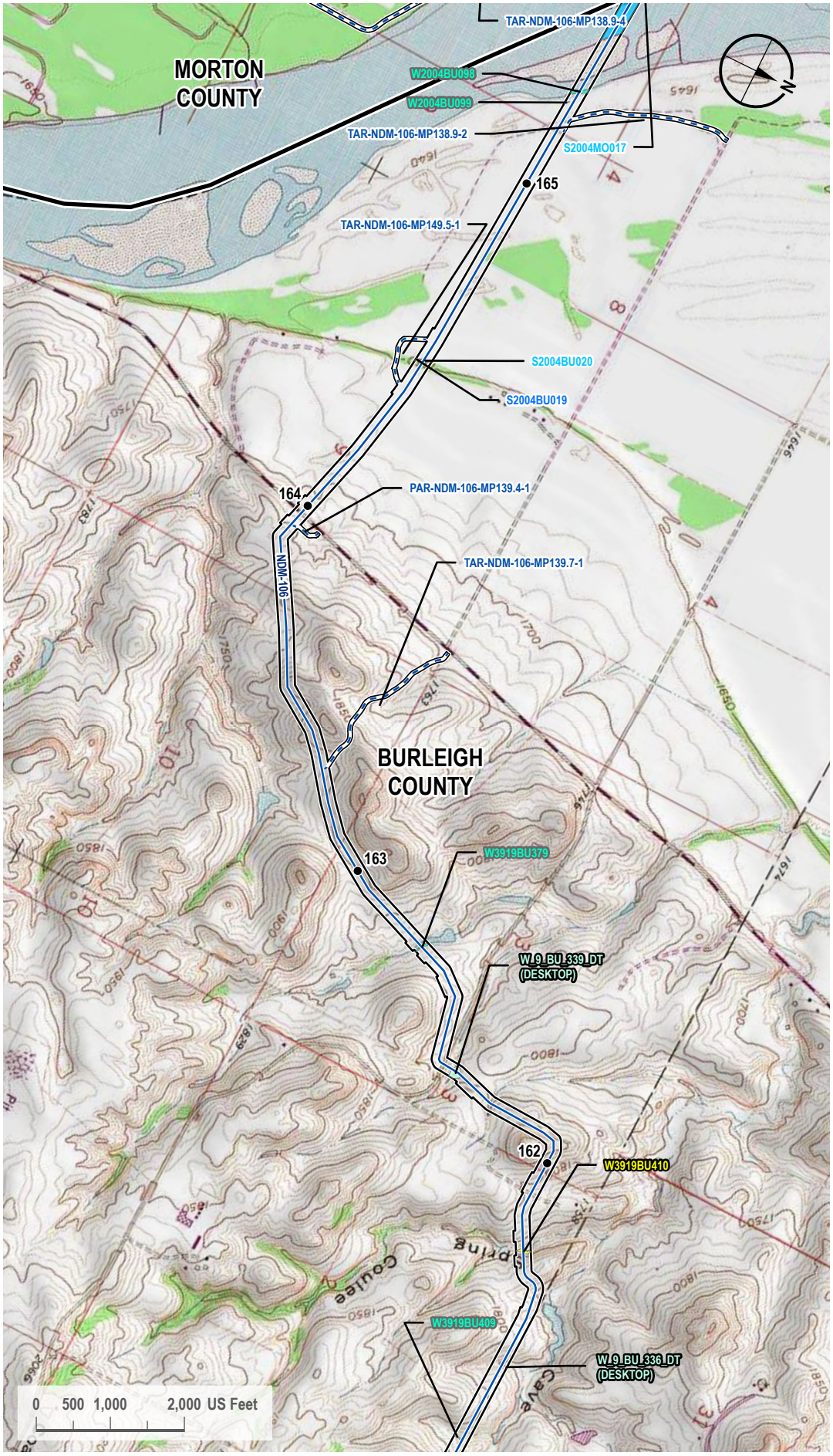

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- County Line
- 200-foot Siting Corridor
- Stream (Surveyed)
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
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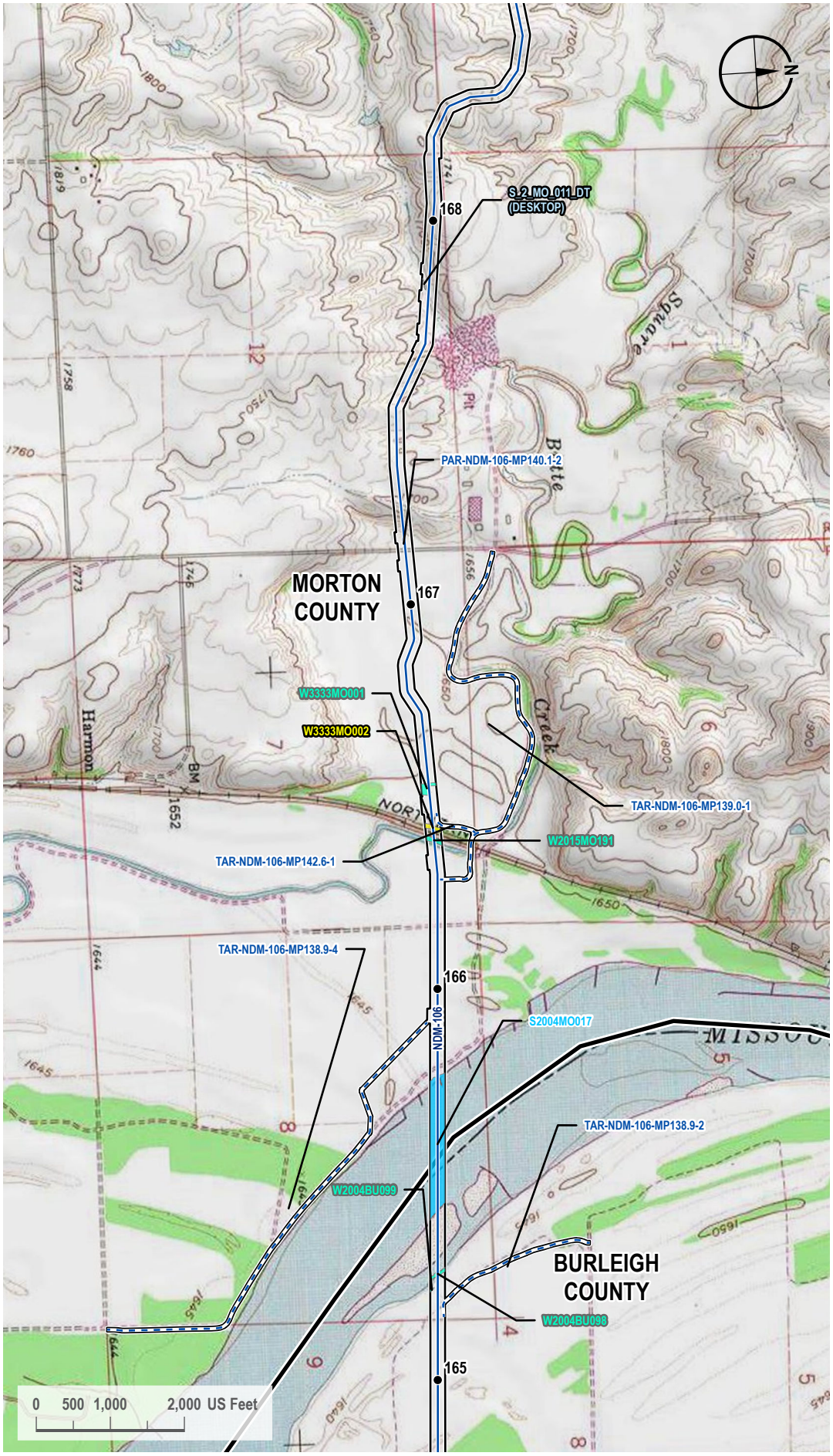

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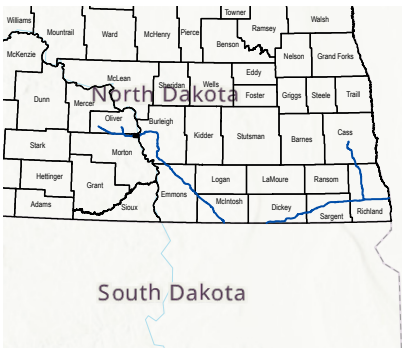

LEGEND

- Milepost
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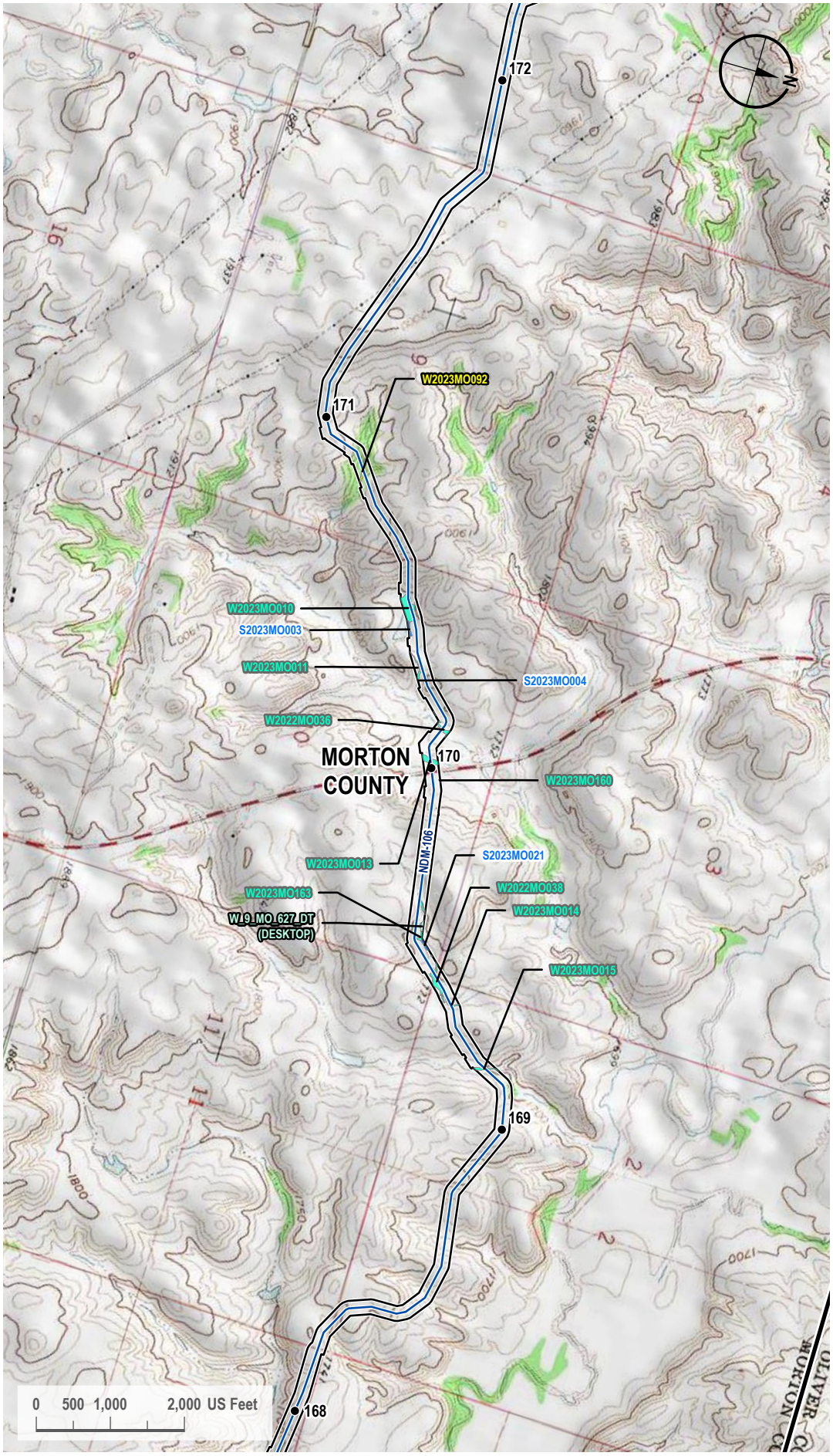

VICINITY MAP



LEGEND

- Milepost
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- County Line
- 200-foot Siting Corridor
- Open Water (Surveyed)
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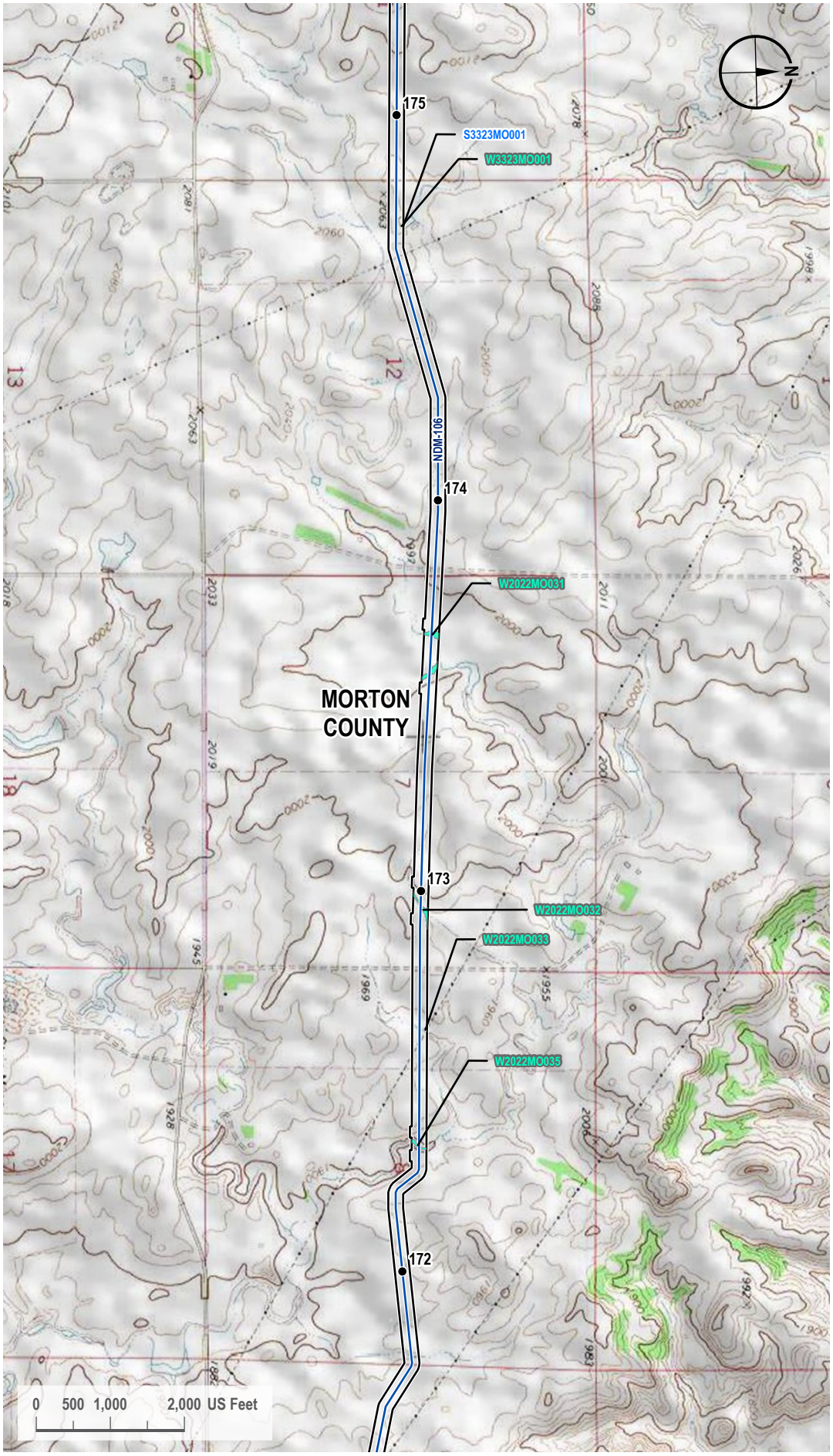

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
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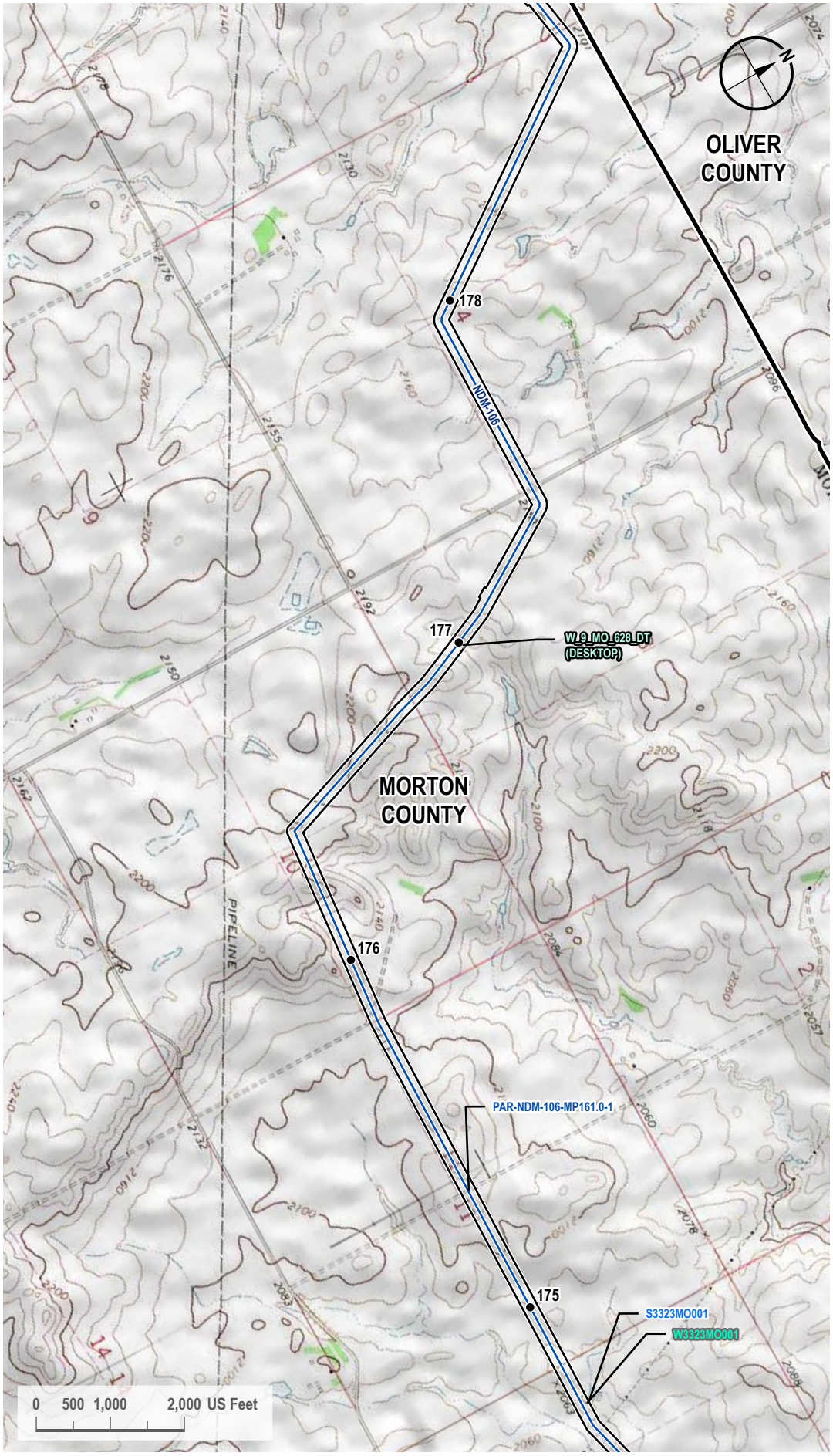

VICINITY MAP



LEGEND

- Milepost
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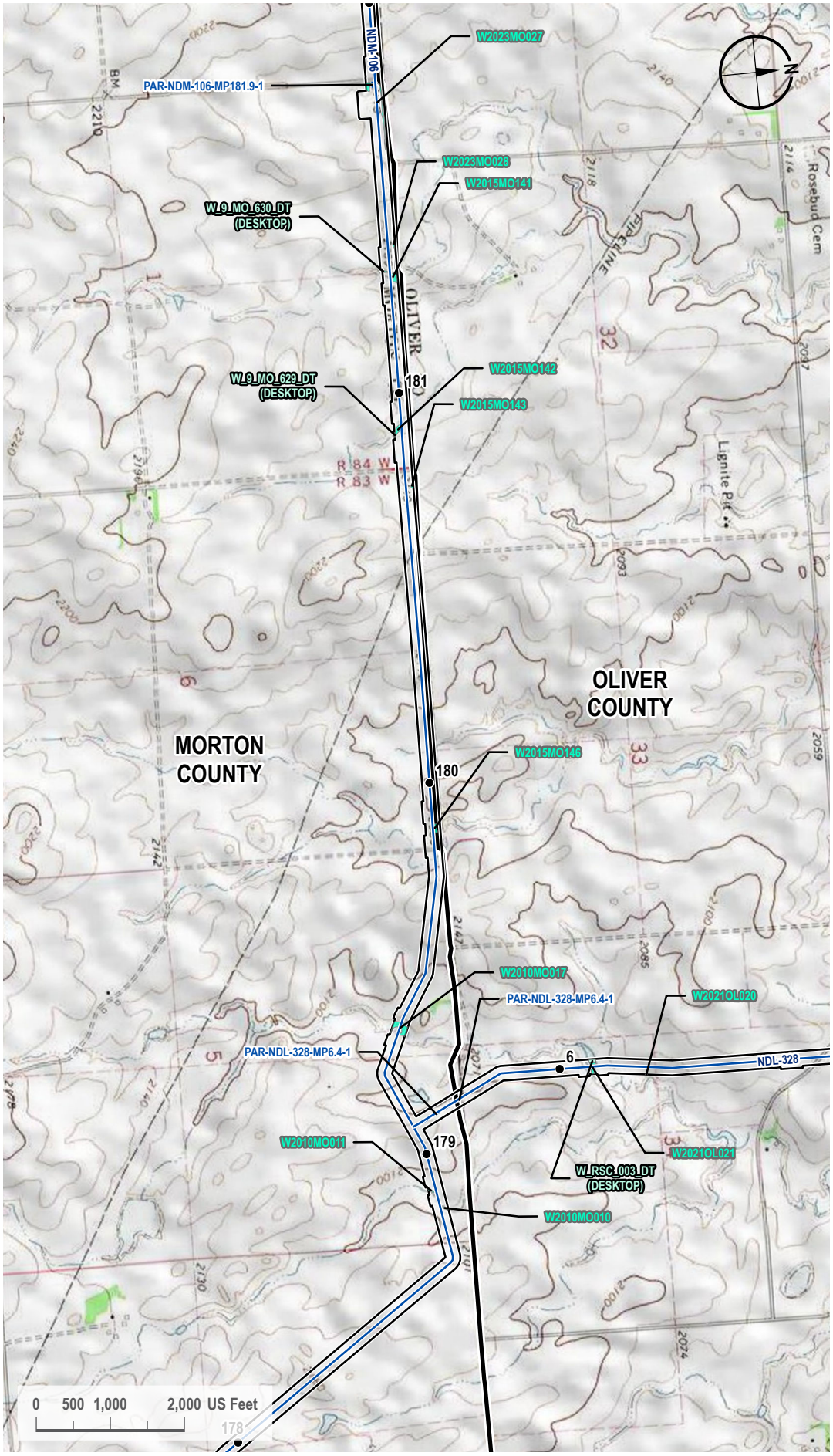

VICINITY MAP



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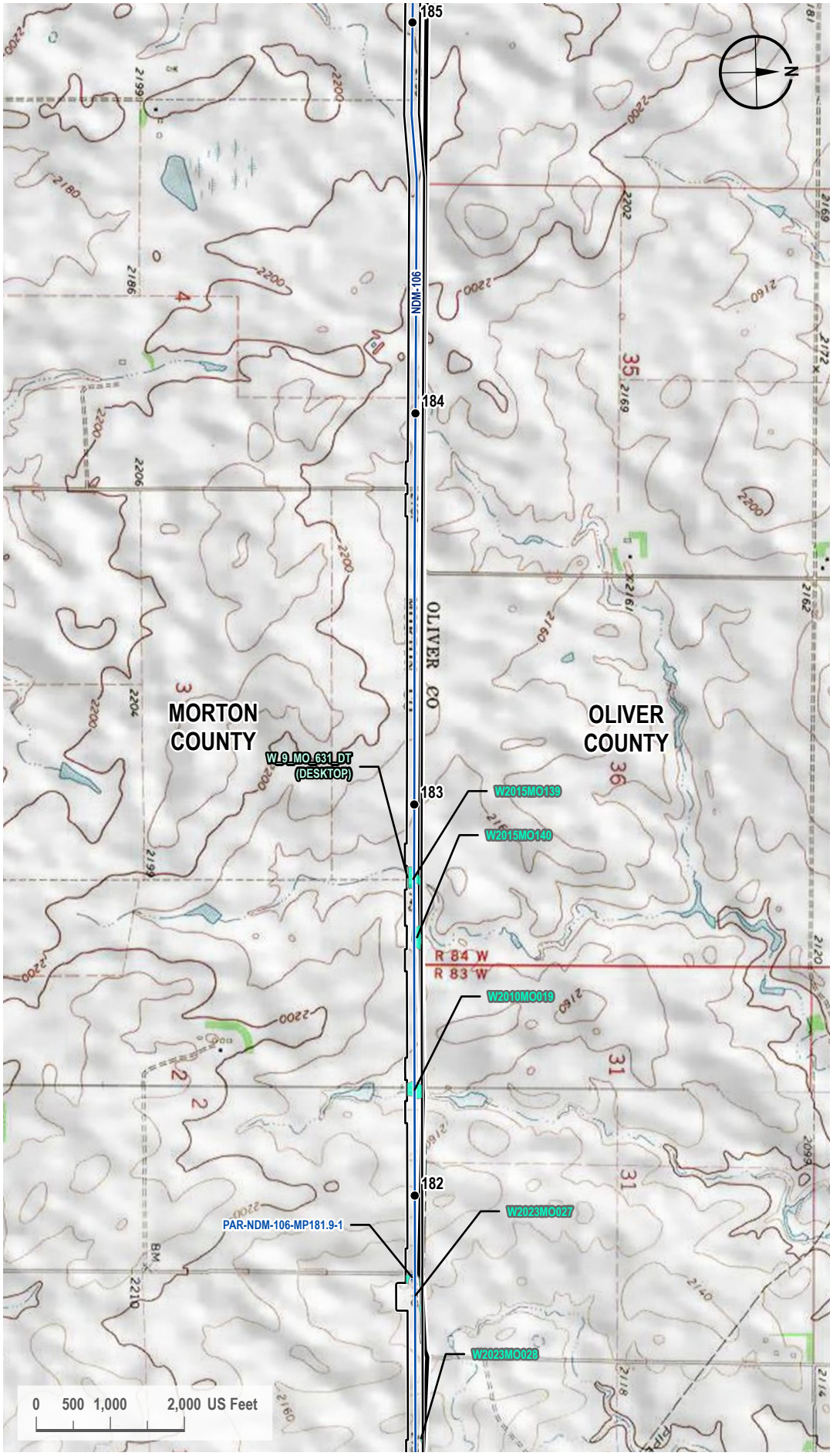

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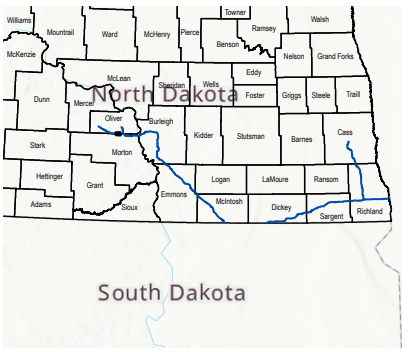

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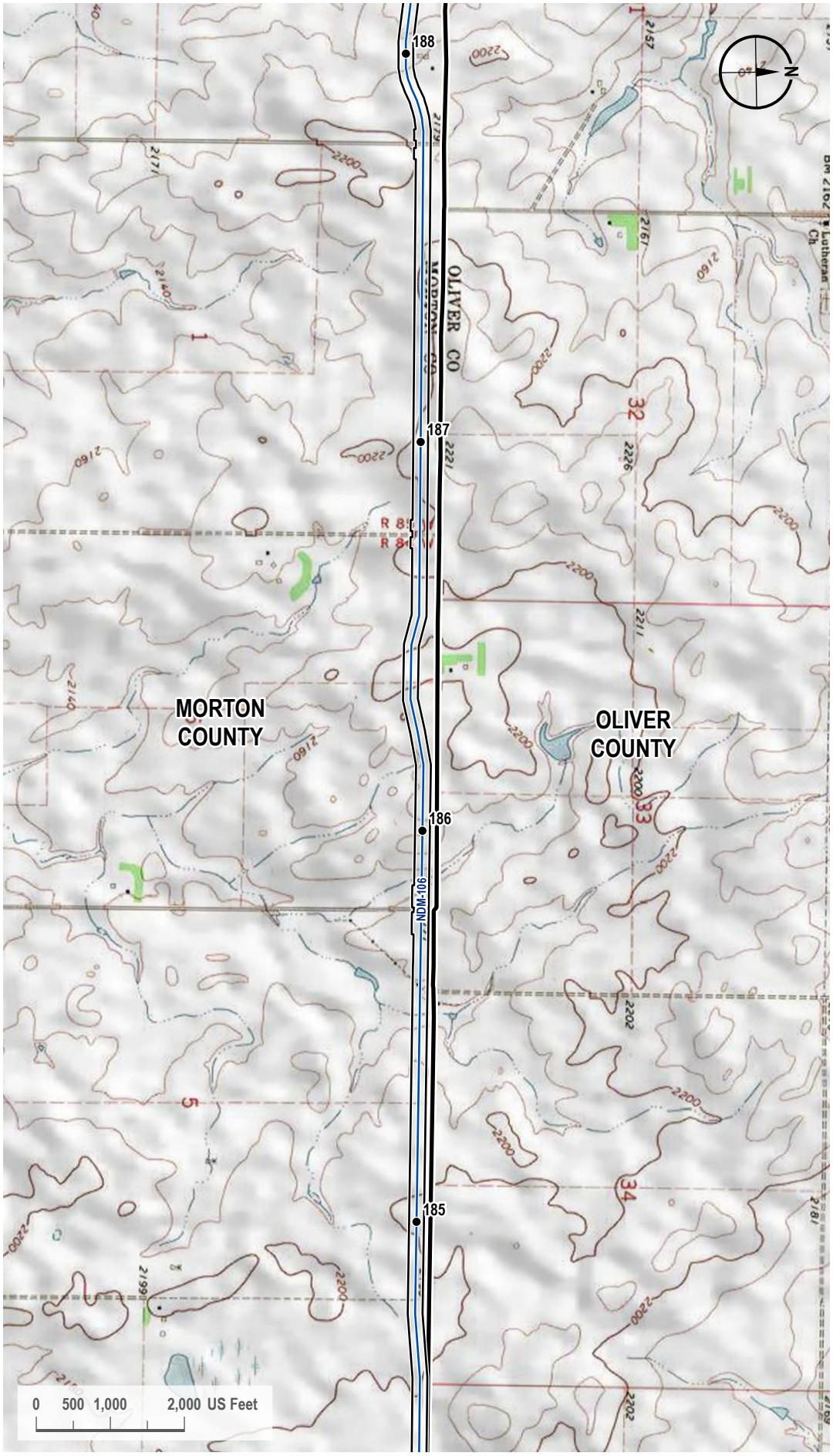

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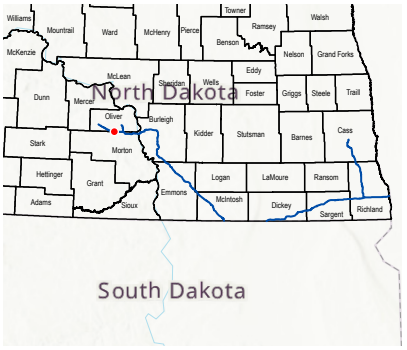

LEGEND

- Milepost
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- 200-foot Siting Corridor

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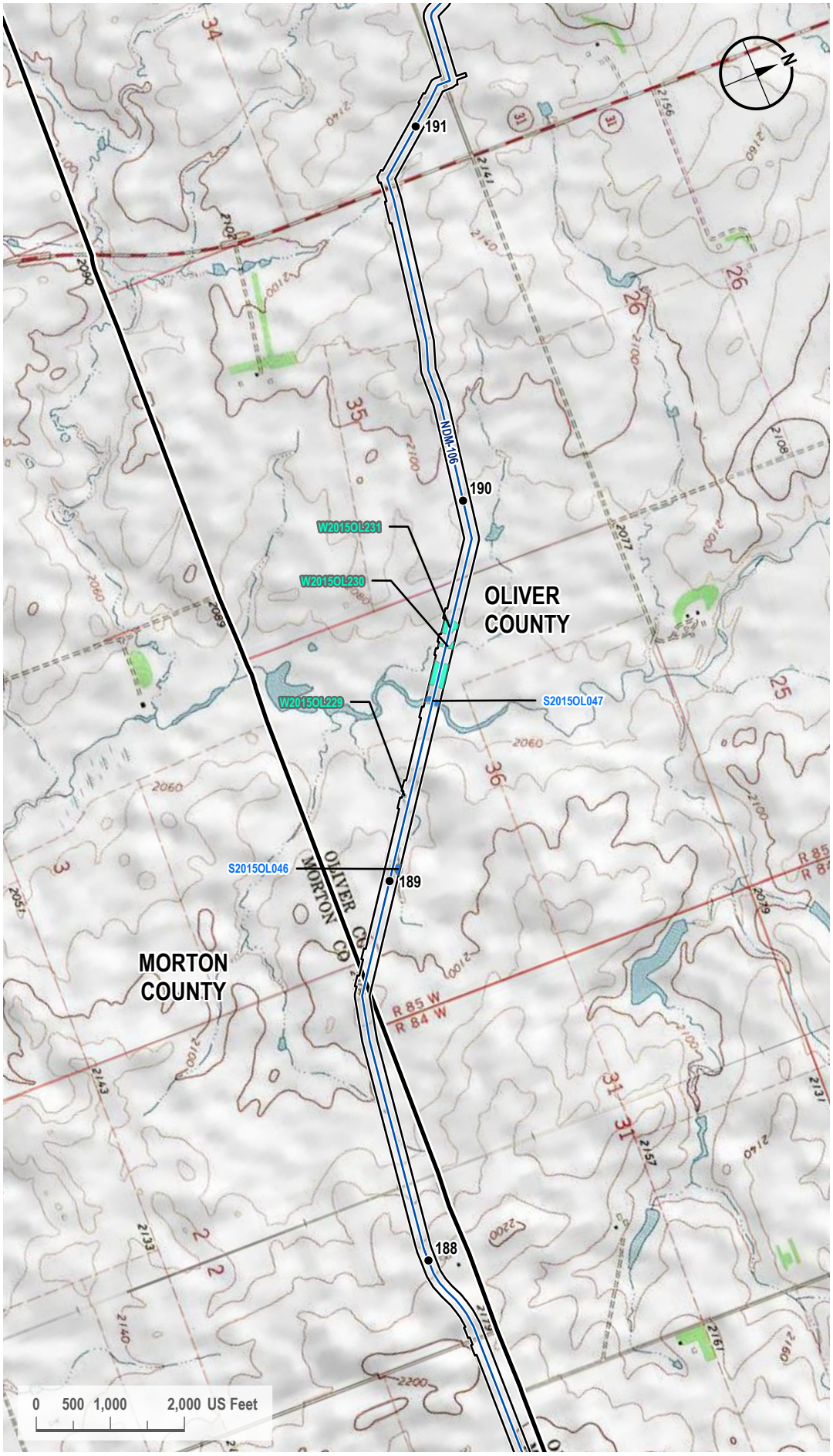

VICINITY MAP



LEGEND

- Milepost
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Appendix A-3

Scale:	Projection:
1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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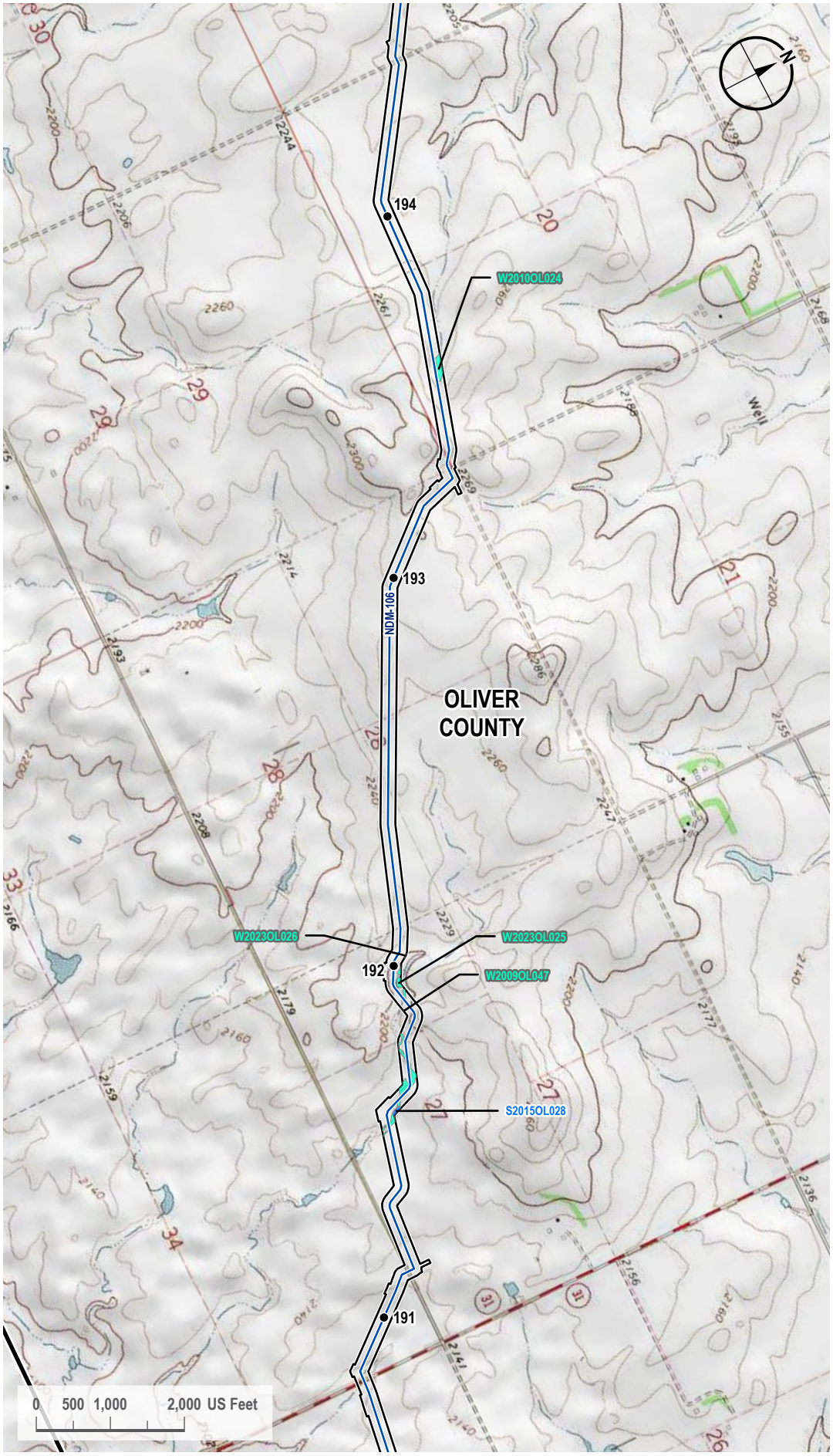

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- County Line
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Figure Title:
Topographic Map

Figure Number:
Appendix A-3

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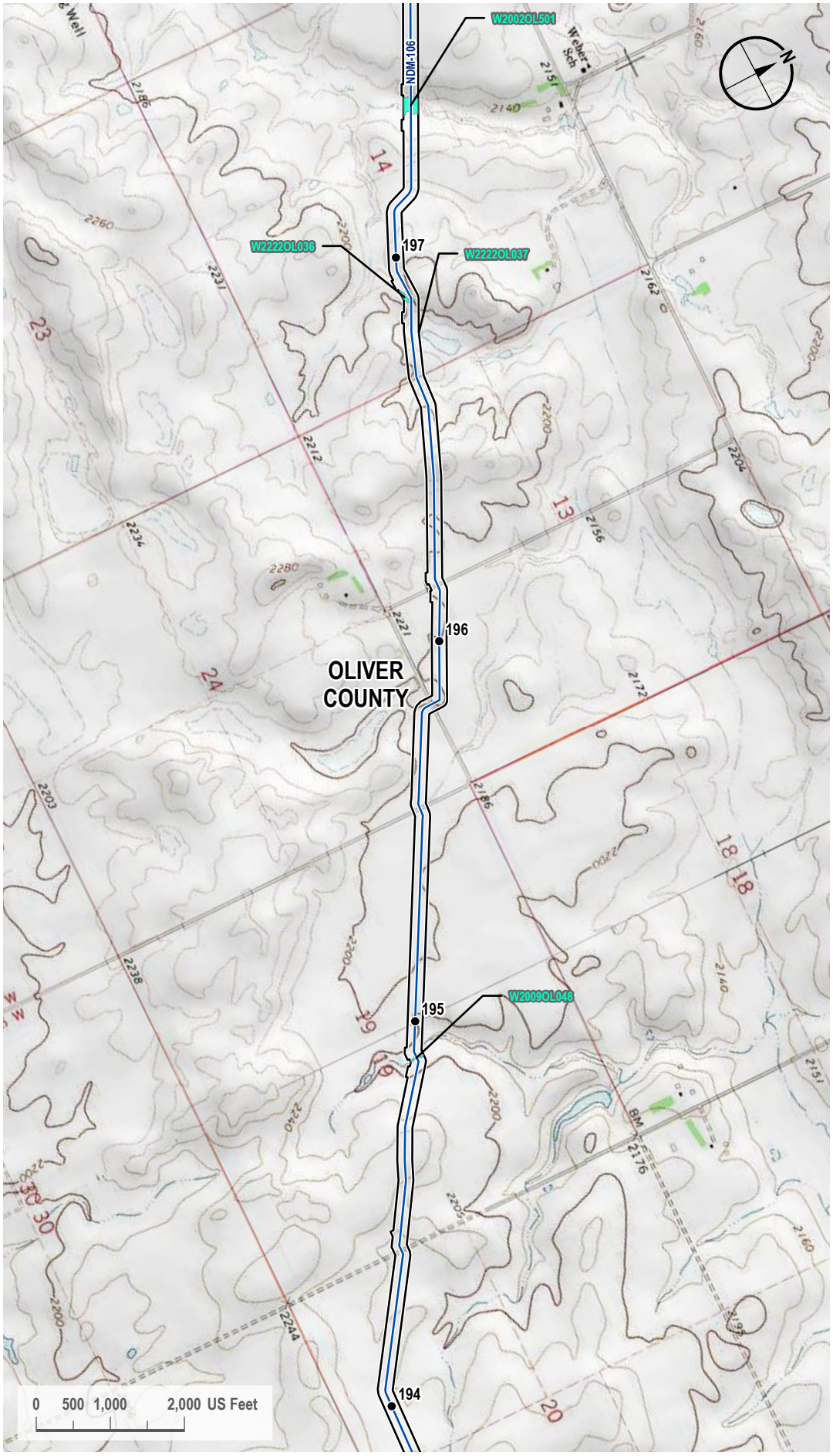

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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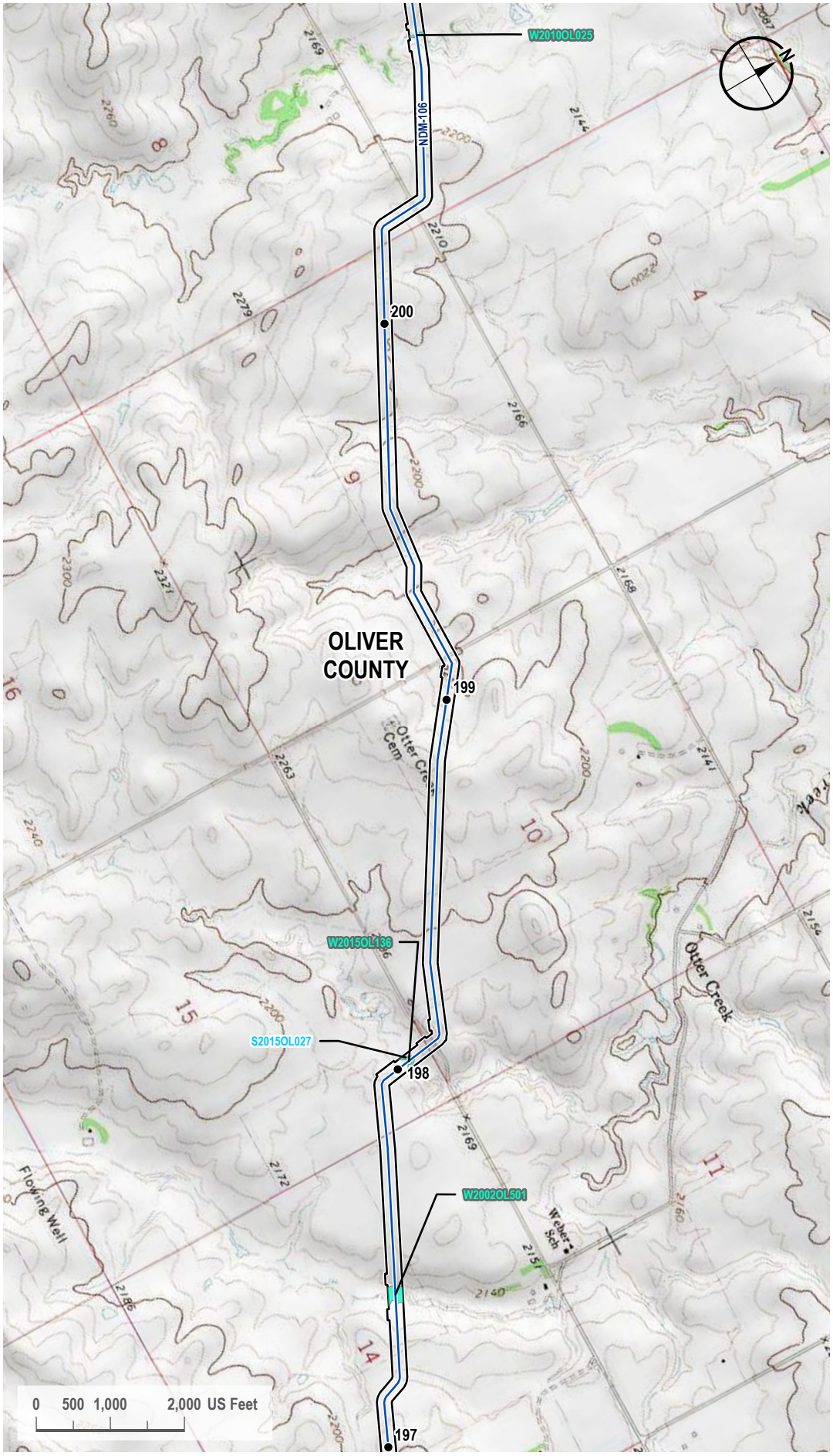

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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Figure Number:
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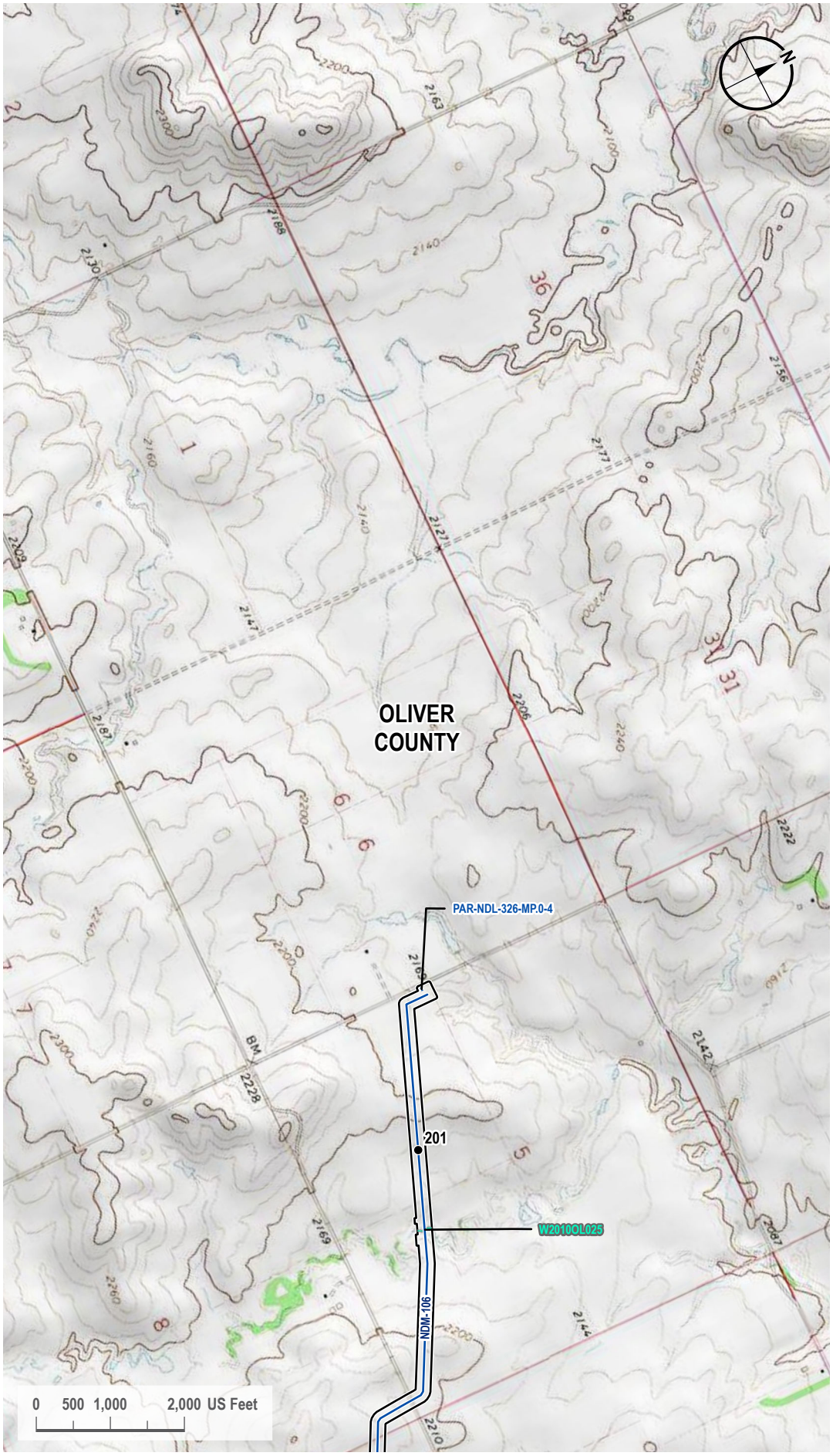

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Palustrine Emergent Wetland (Surveyed)

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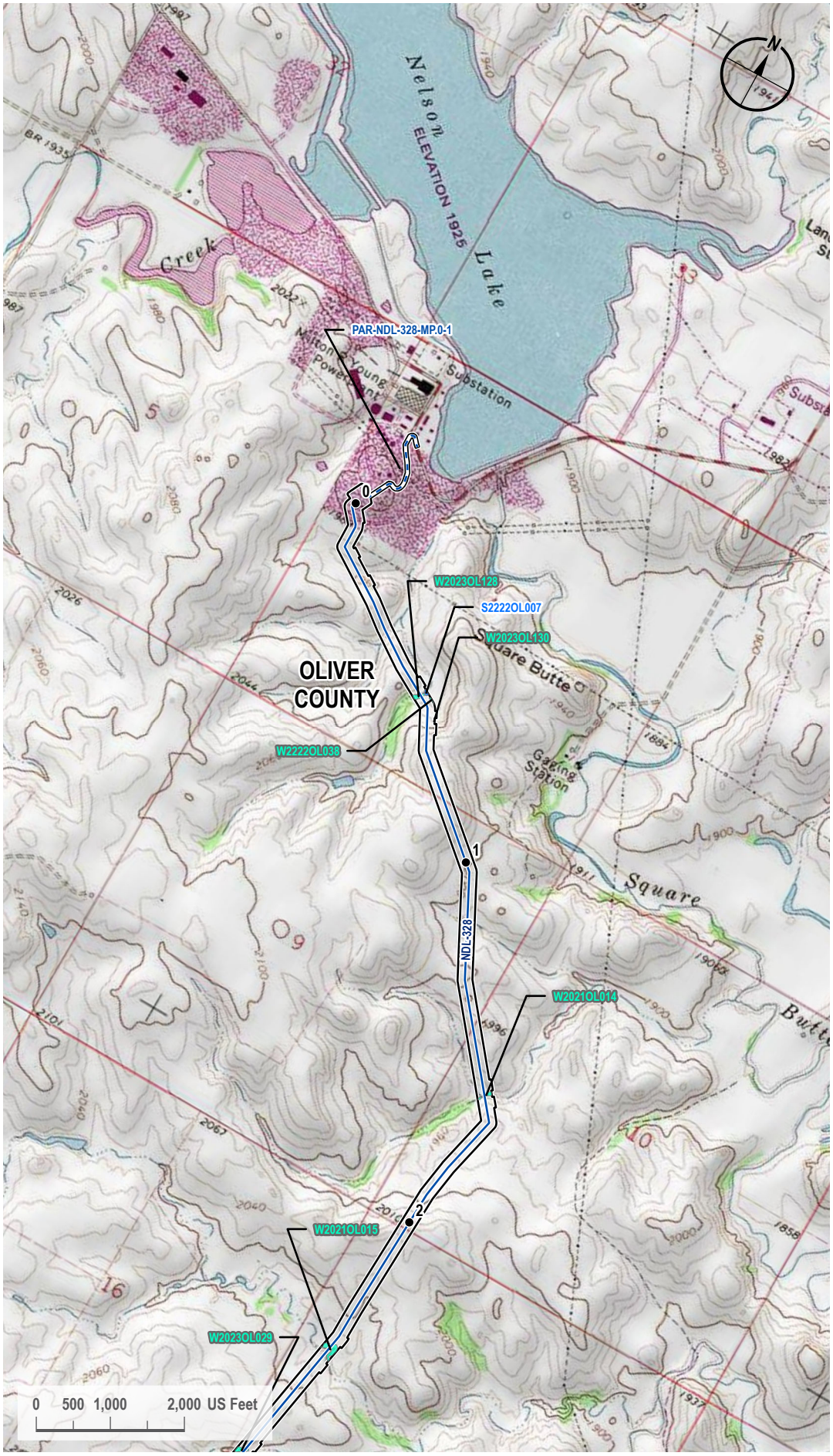

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Open Water (Surveyed)
- Palustrine Emergent Wetland (Surveyed)

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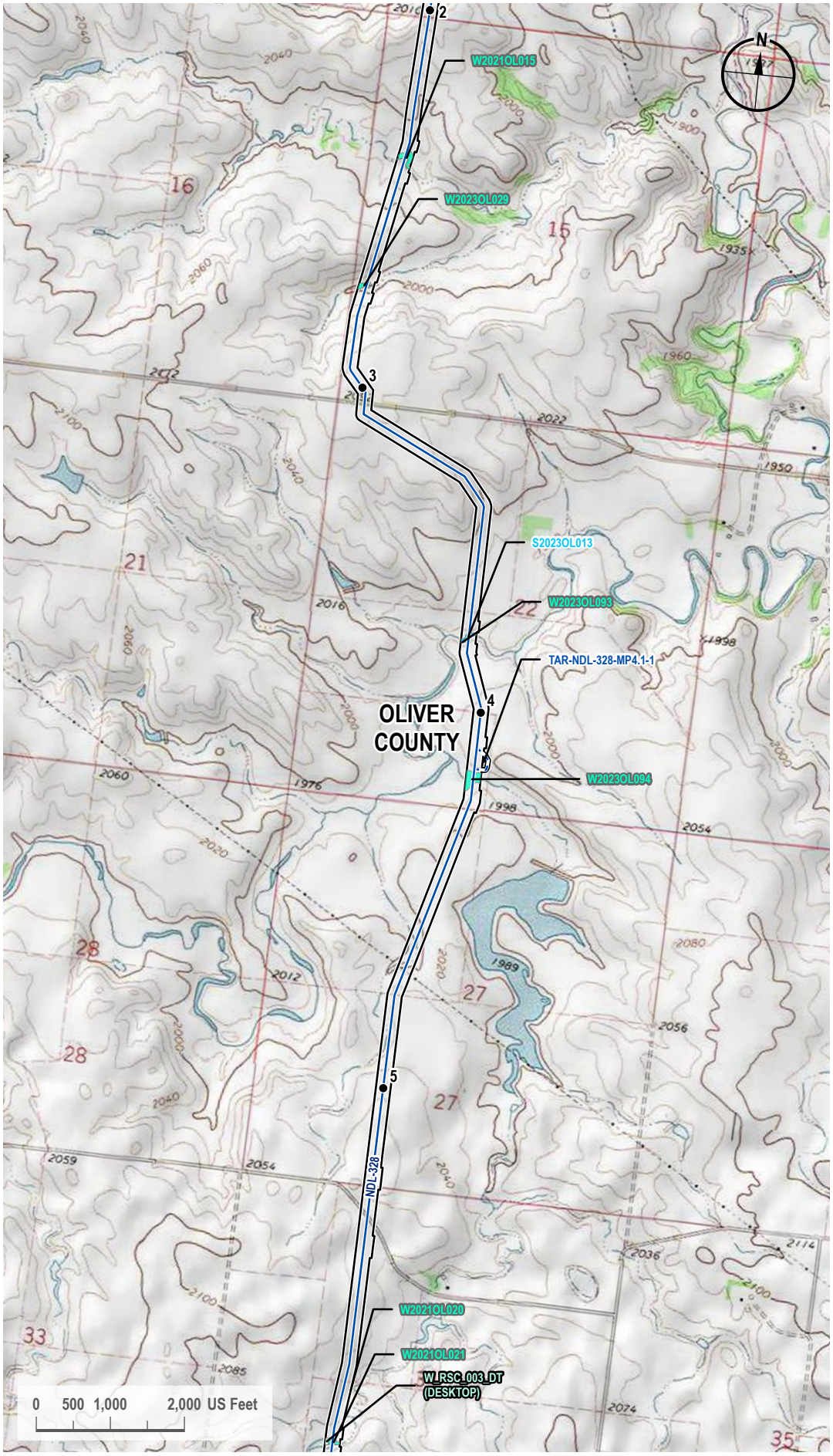
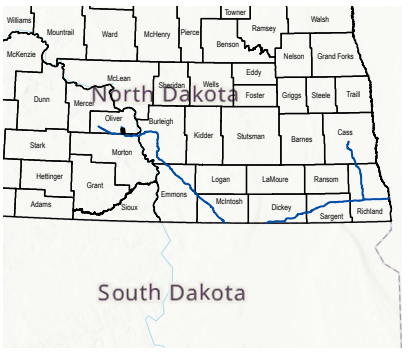


VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- Stream (Surveyed)
- Palustrine Emergent Wetland (Surveyed)
- Palustrine Emergent Wetland (Desktop)

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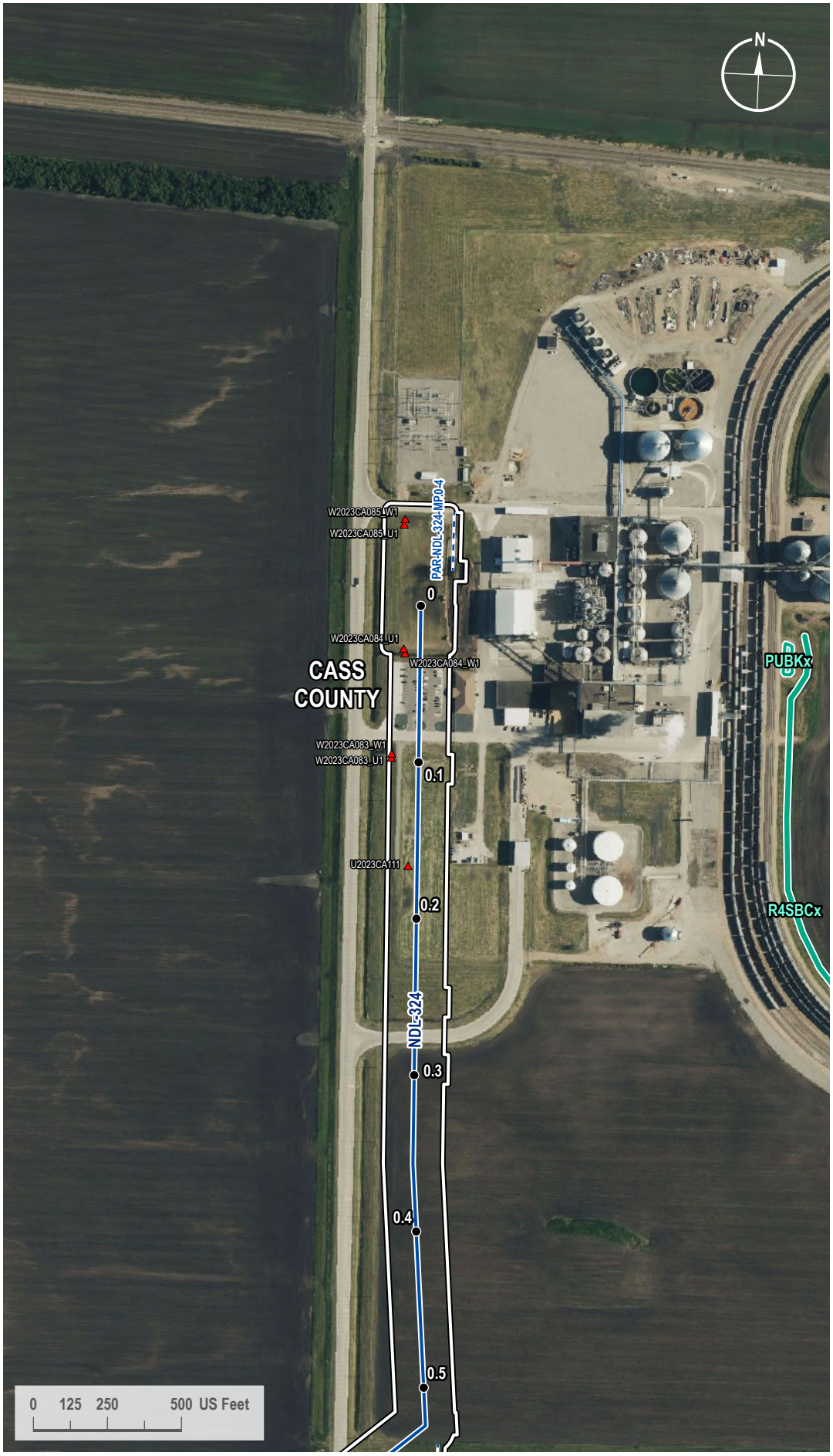
NWI Maps -A4

NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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Figure Title:
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Appendix A-4

Scale:	Projection:
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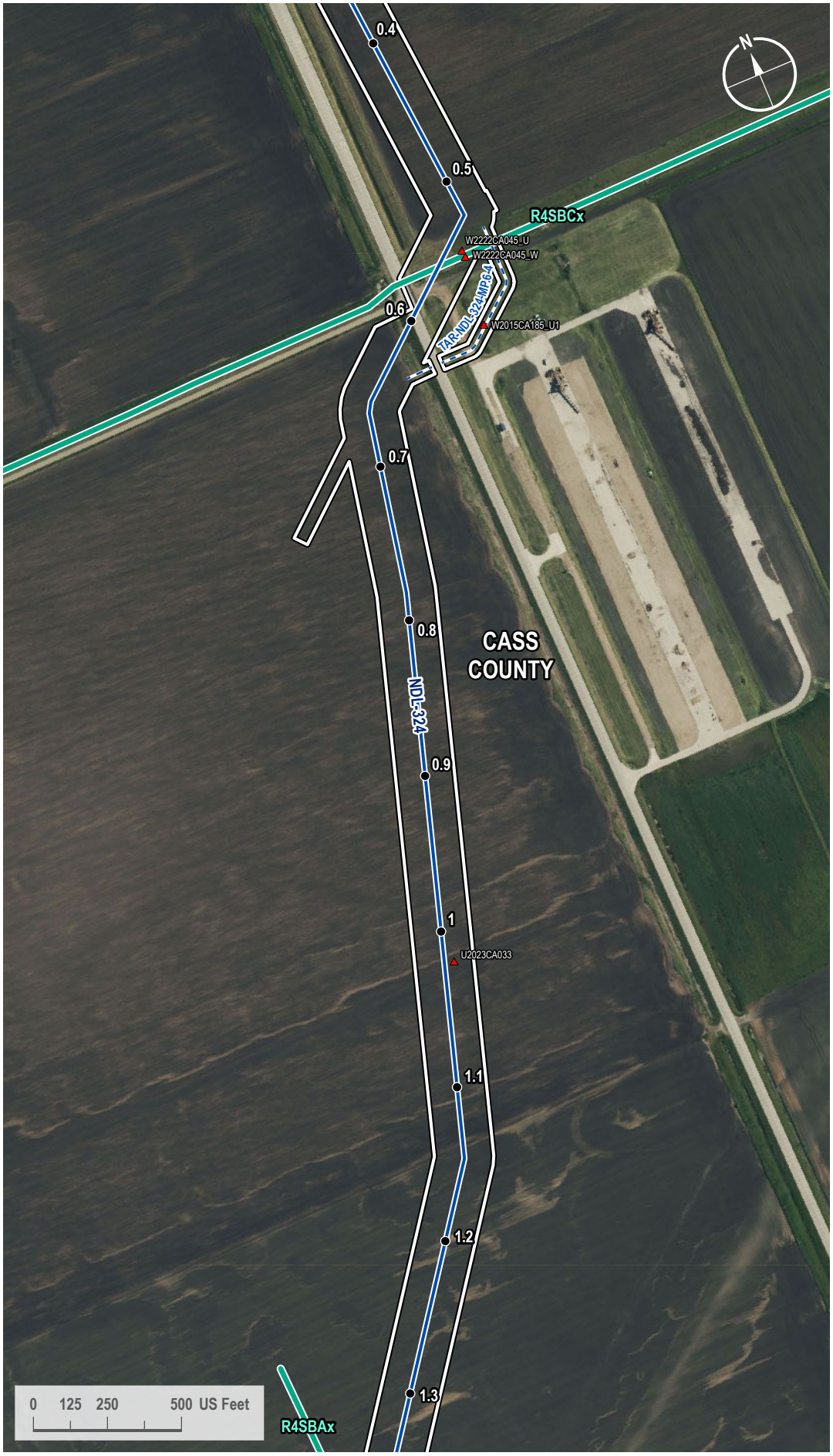

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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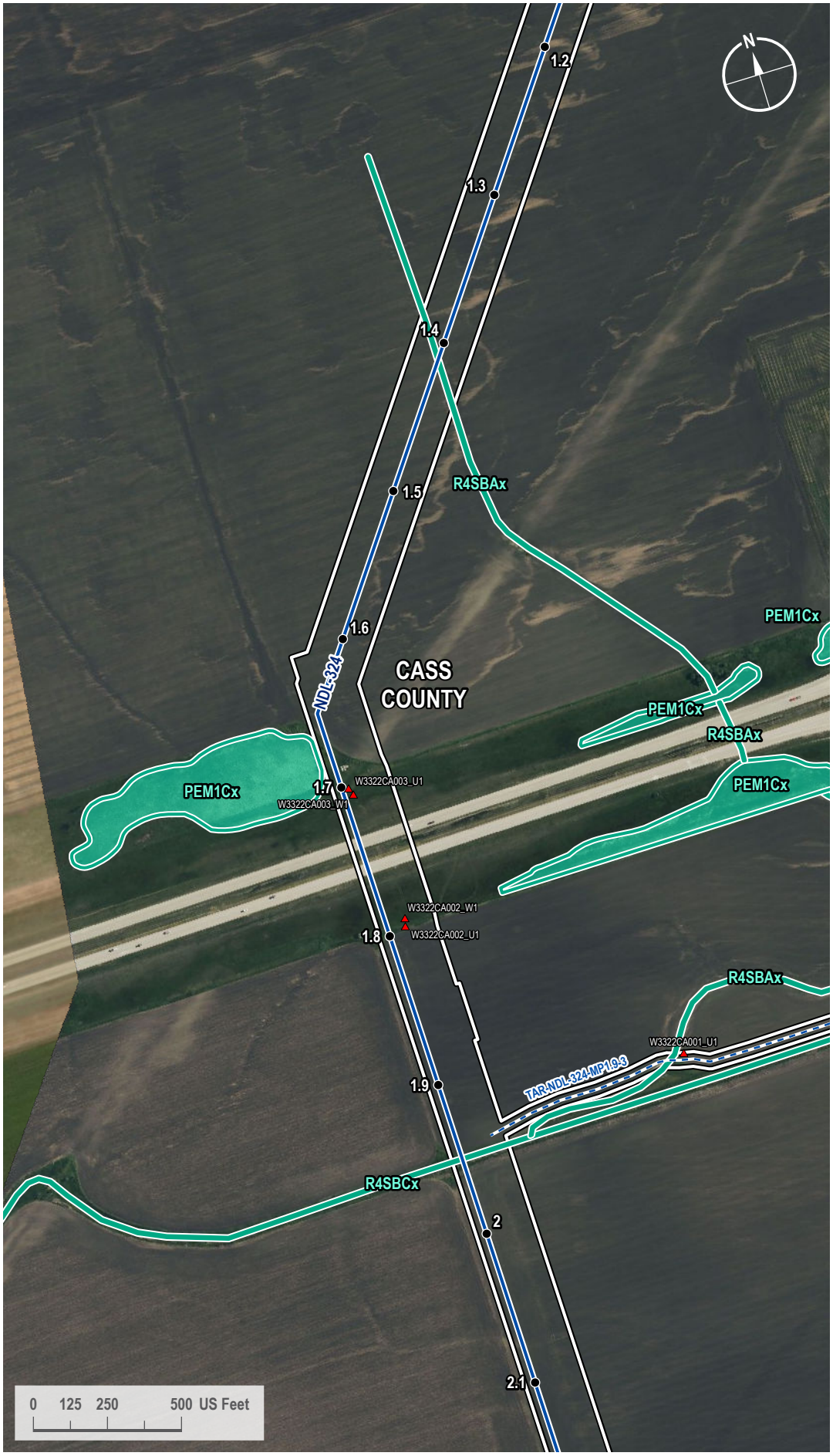

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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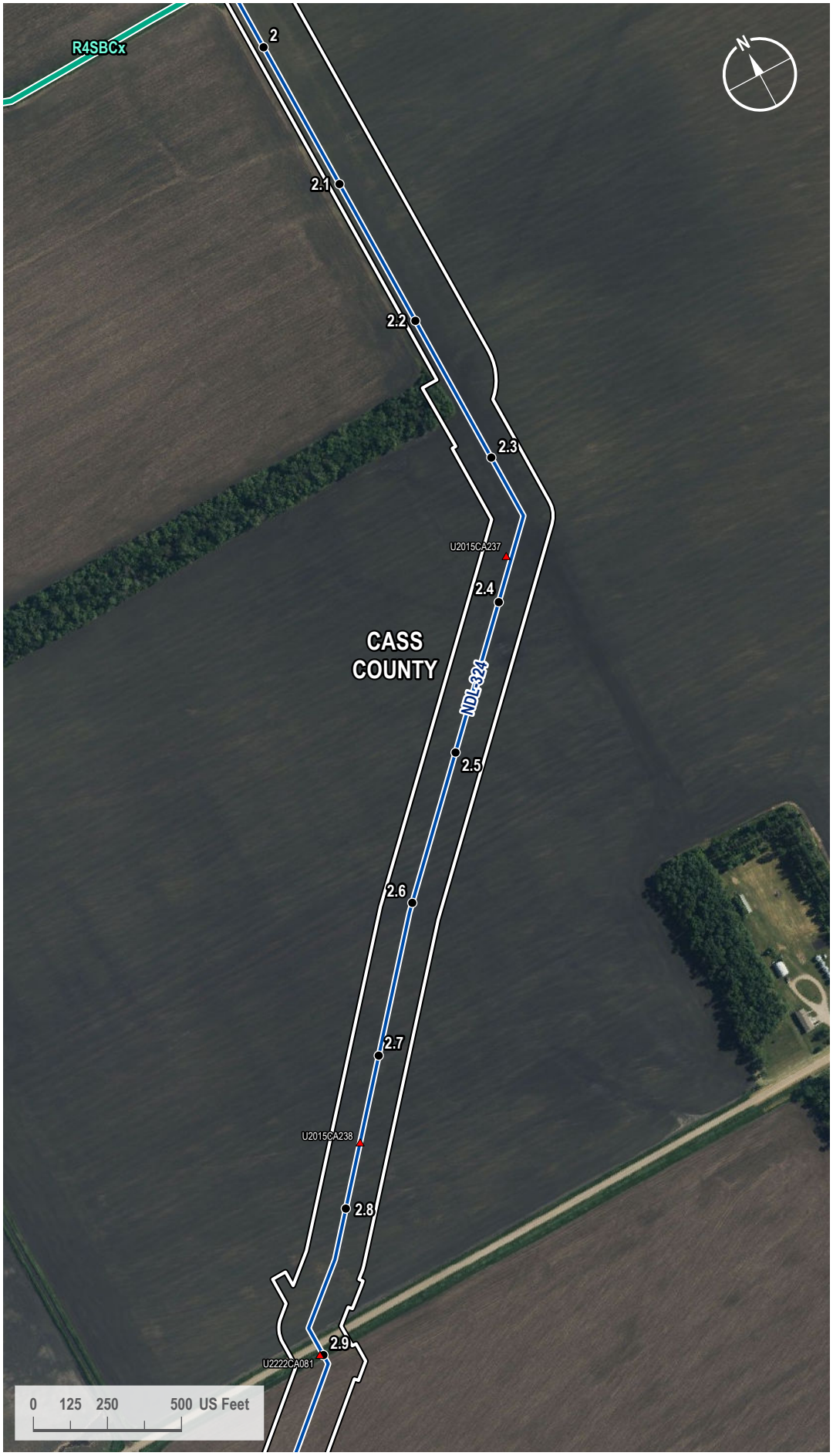

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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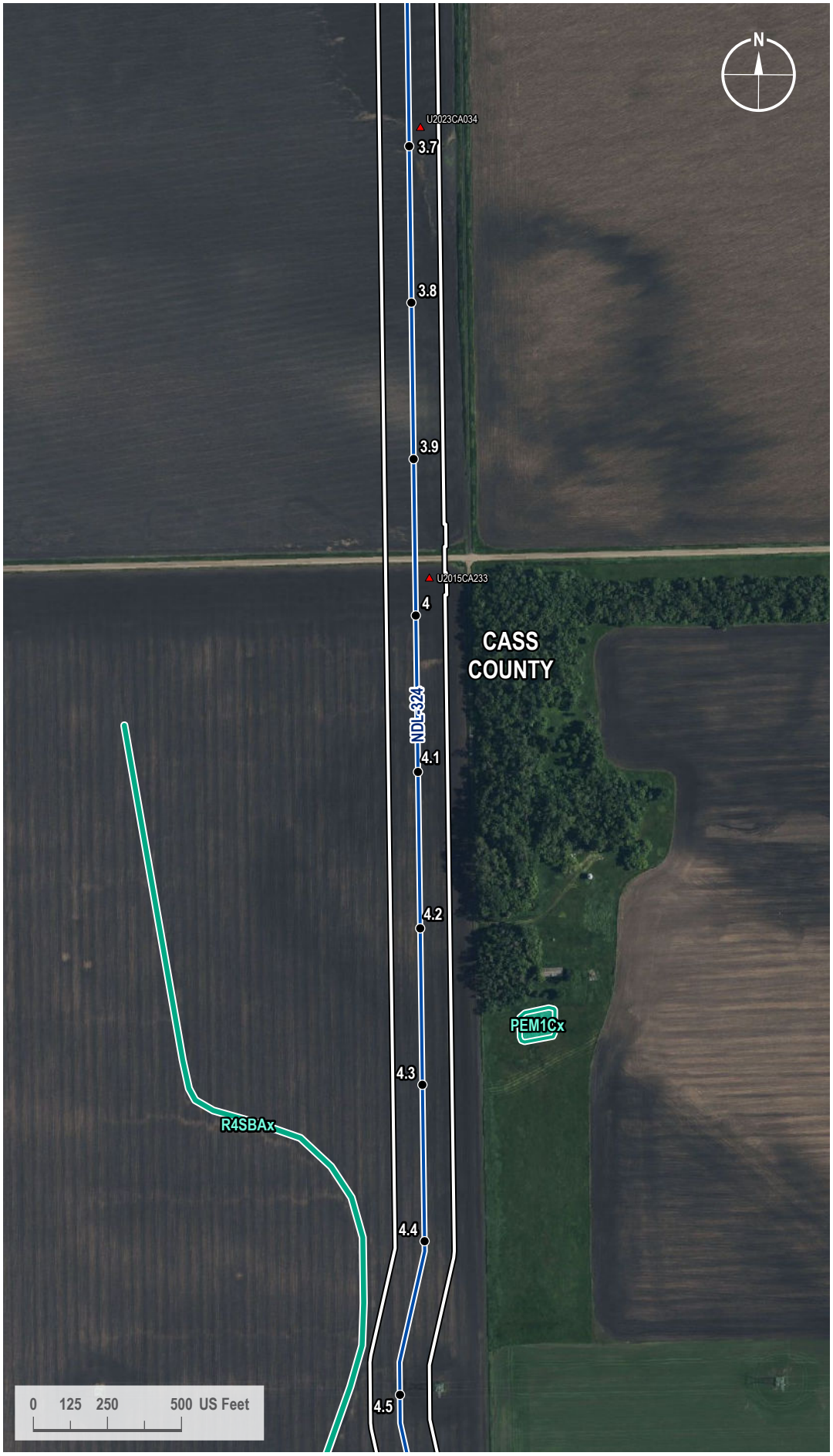

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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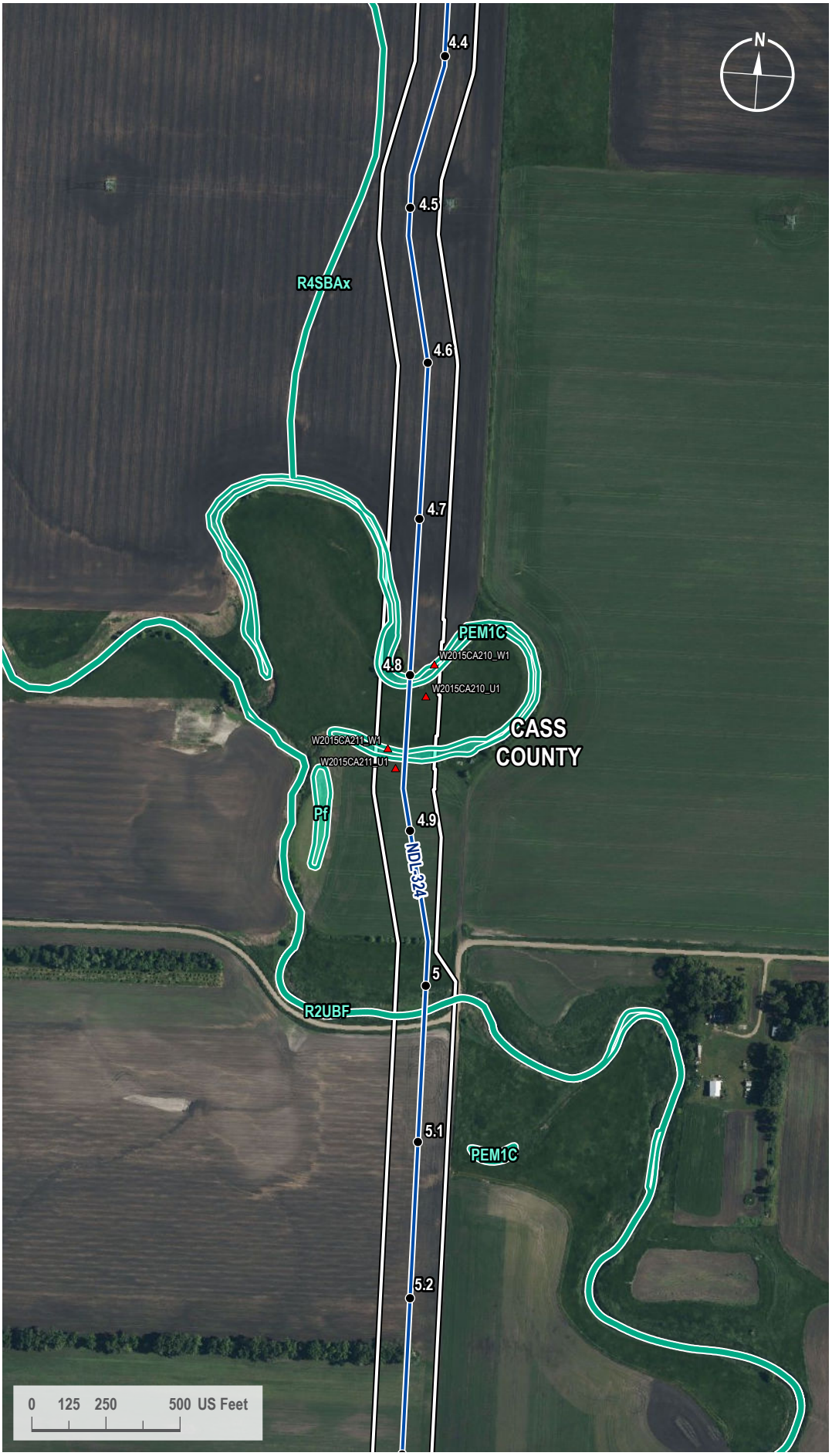

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

REVISIONS

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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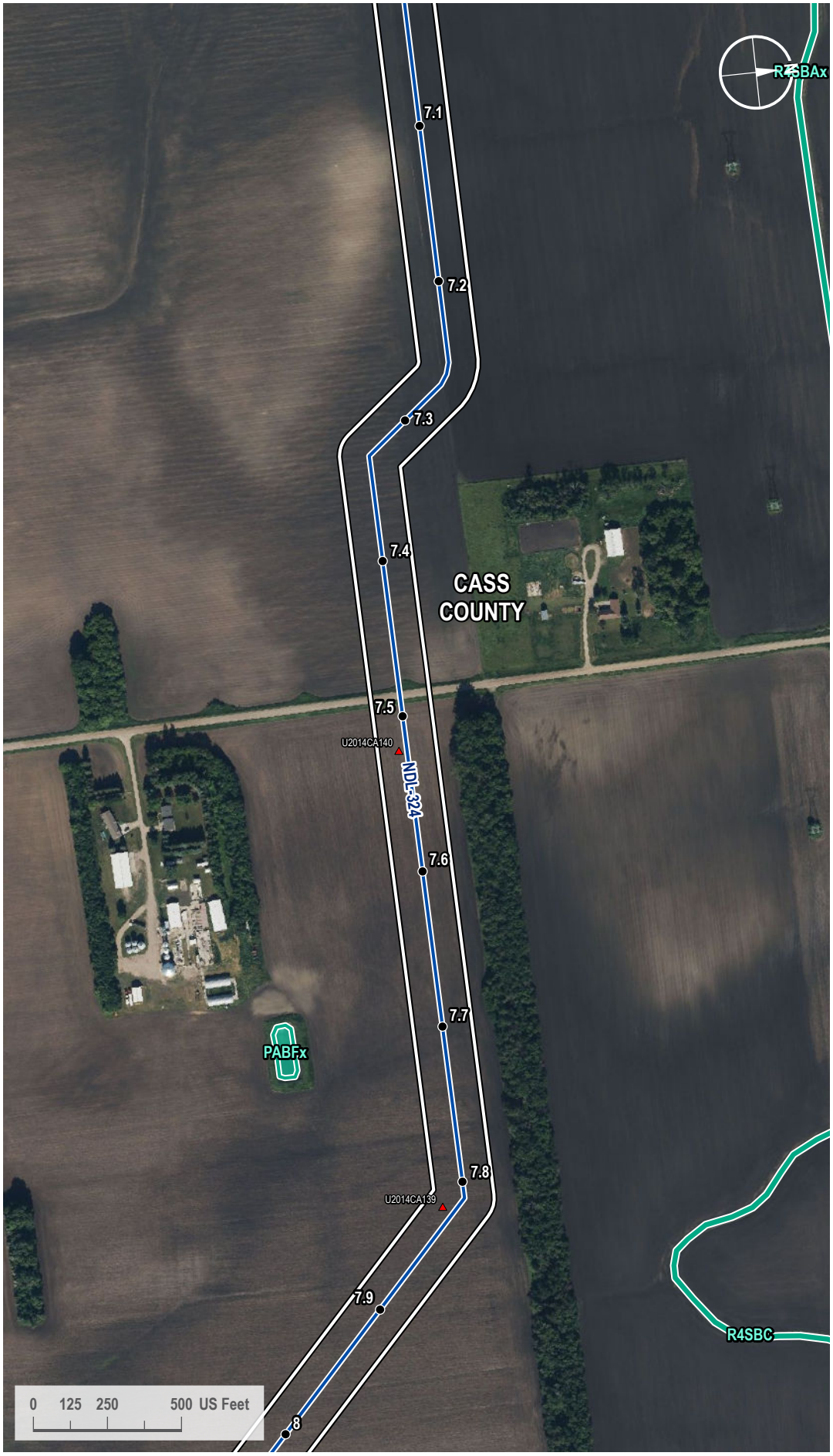

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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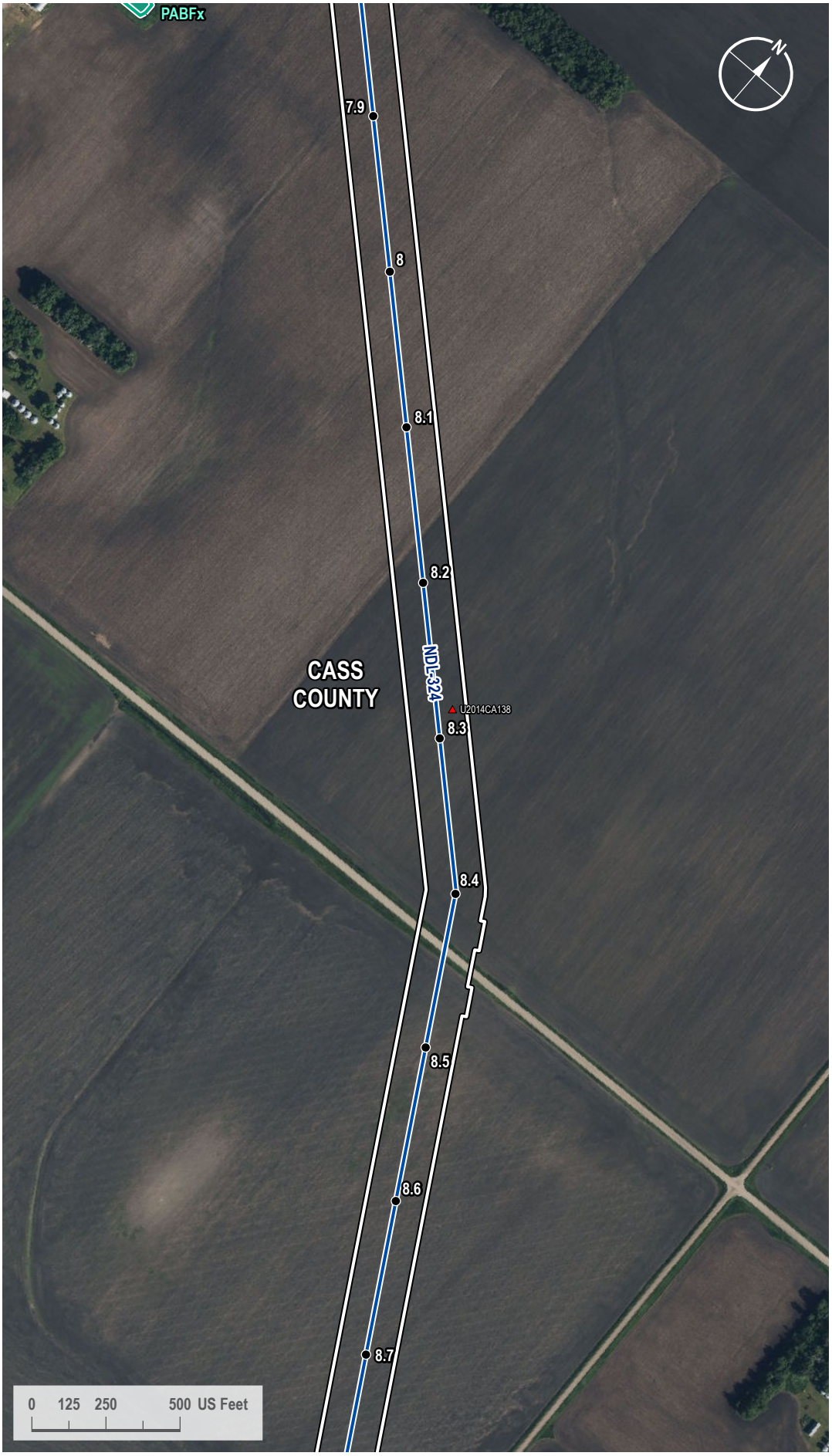

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI Map

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Appendix A-4

Scale:	Projection:
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Sheet:	**Drawing Number:**
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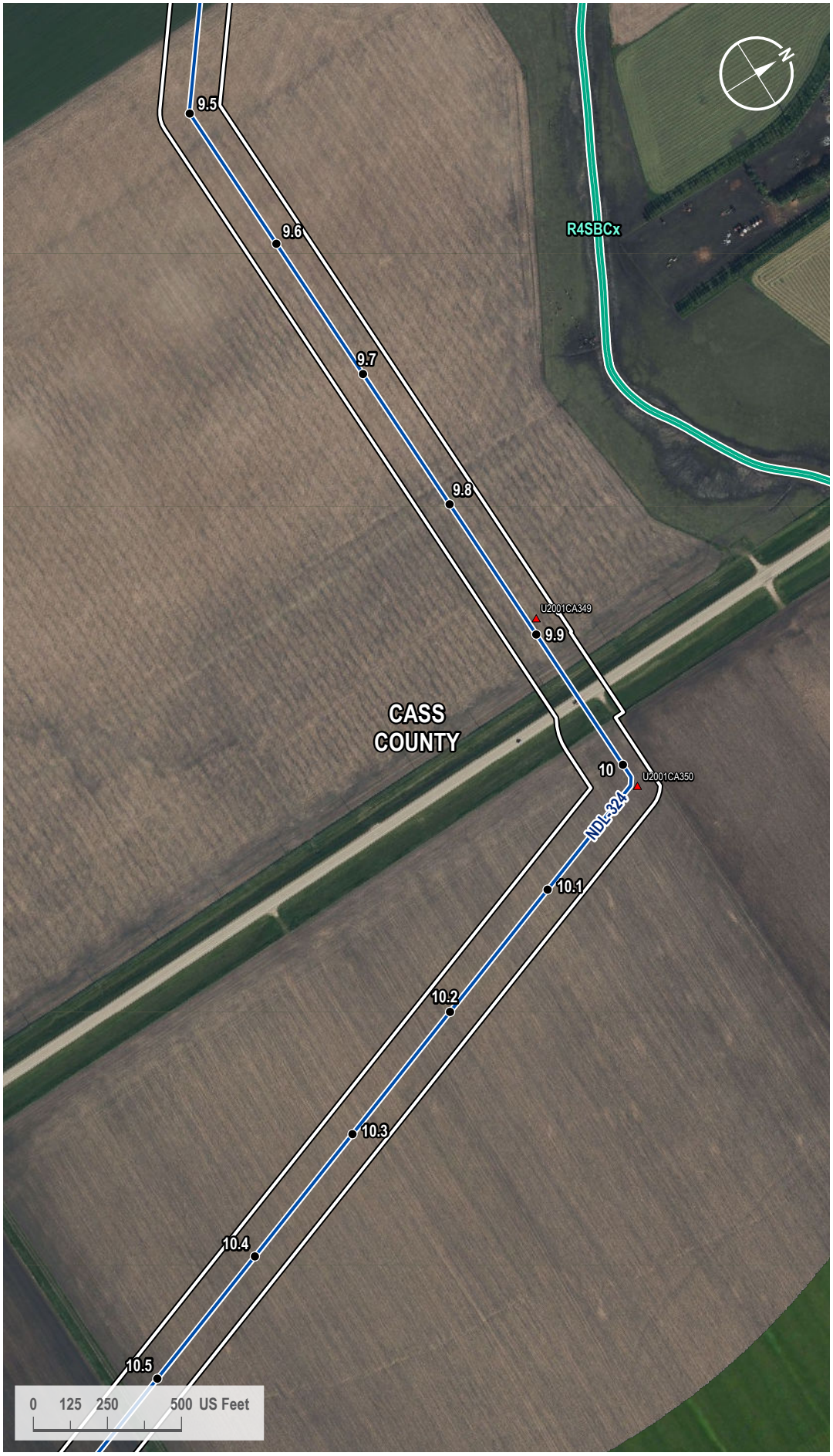
NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Figure Title:
NWI Map

Figure Number:
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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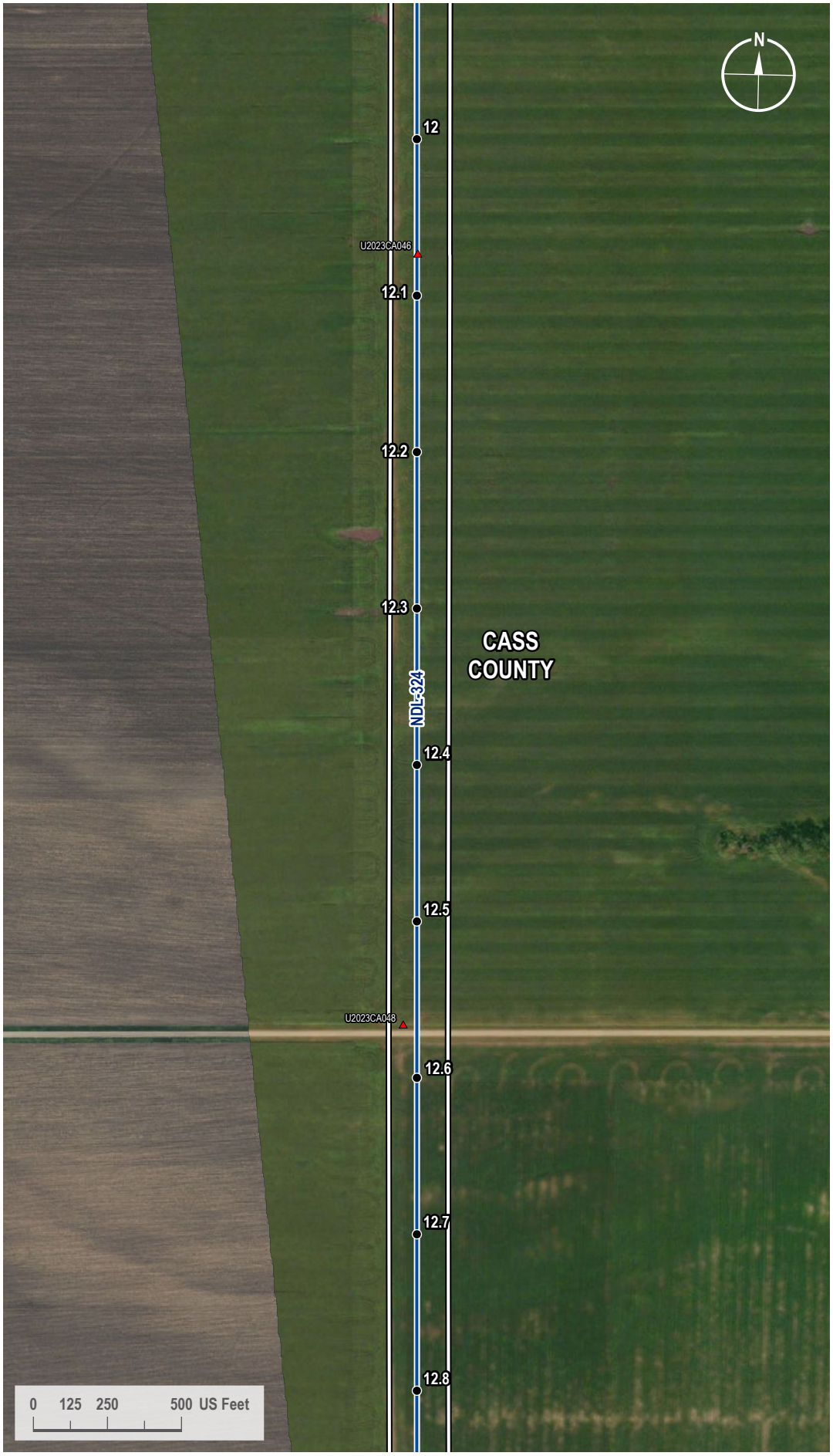

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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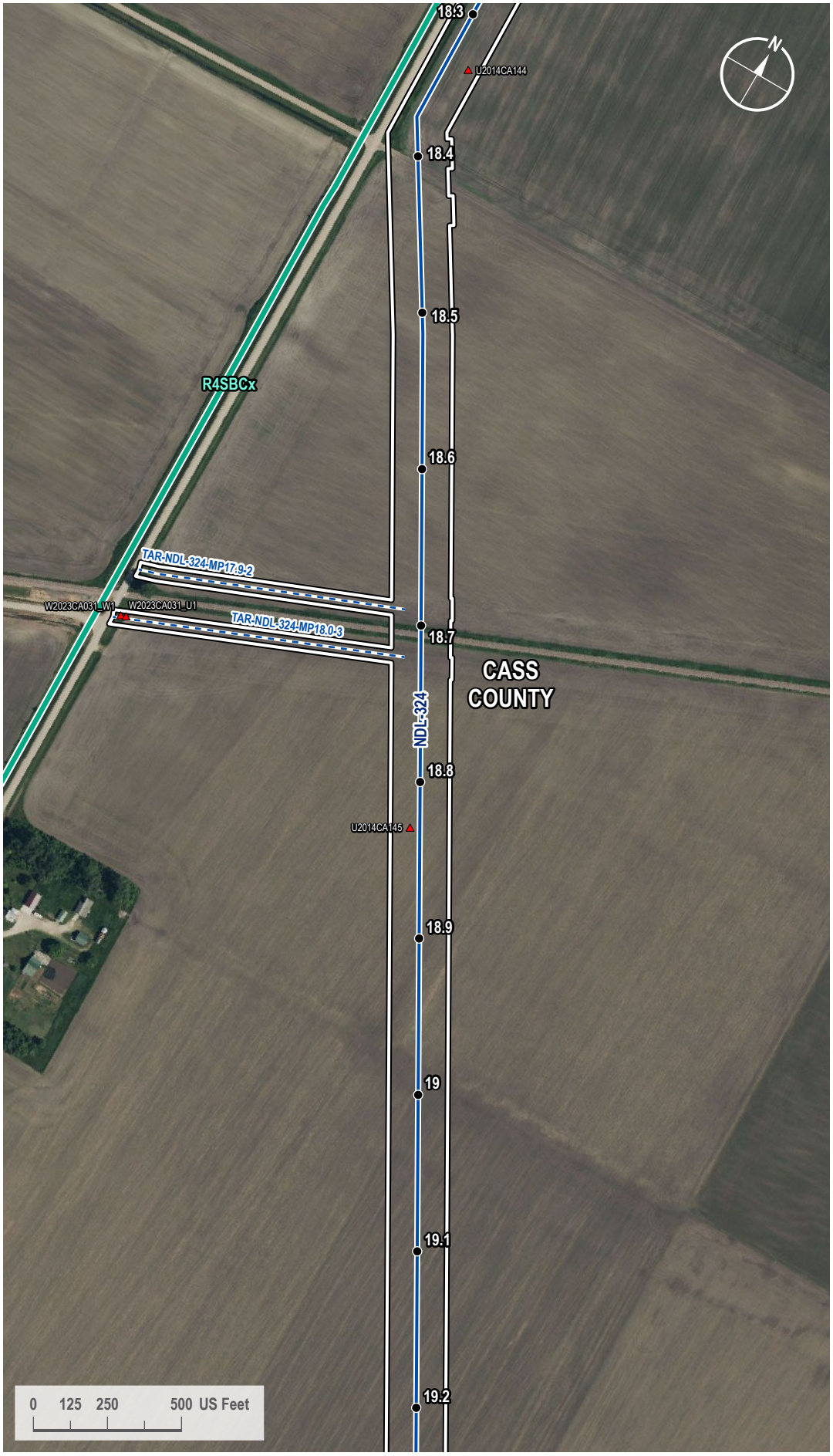

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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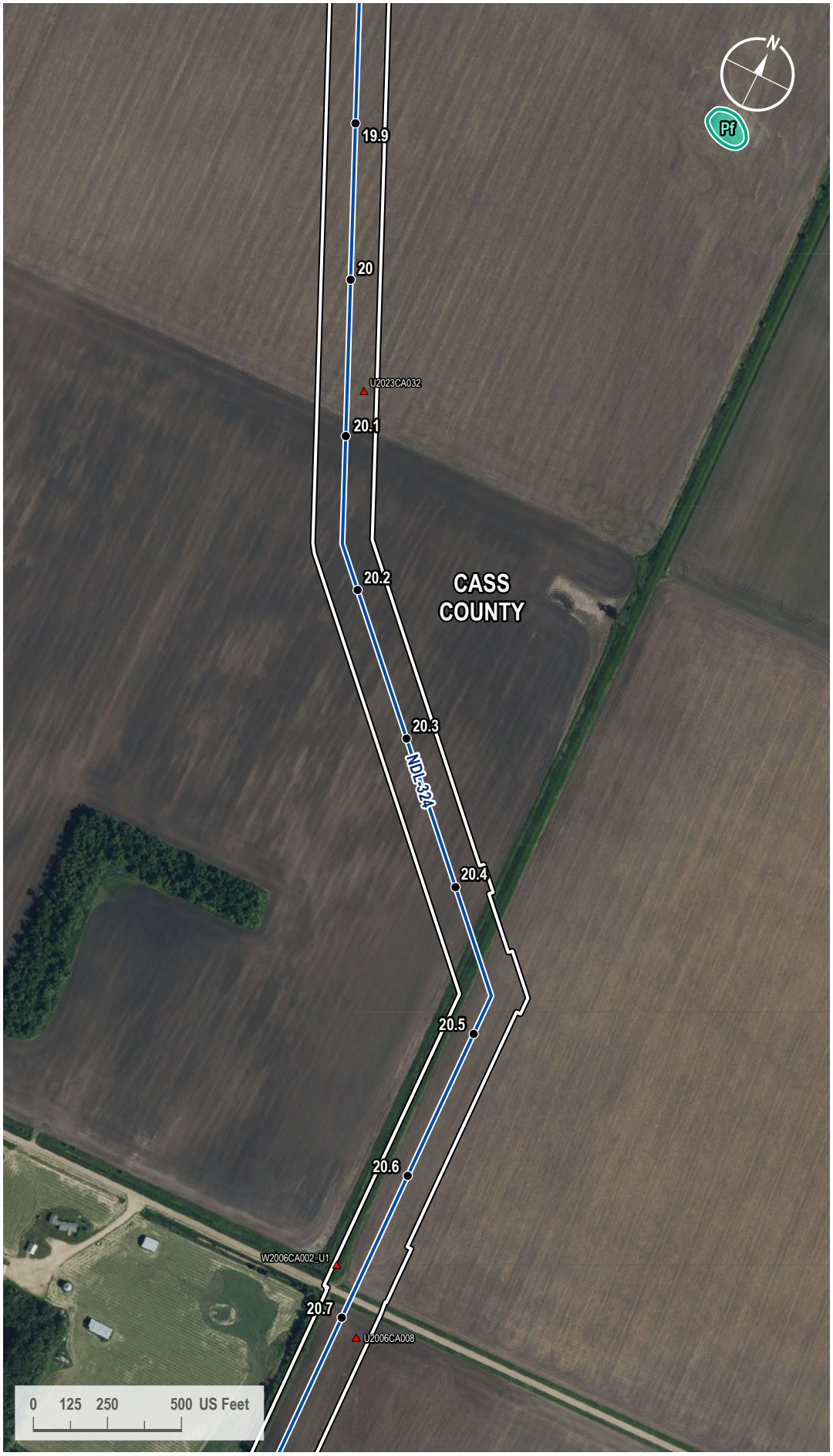

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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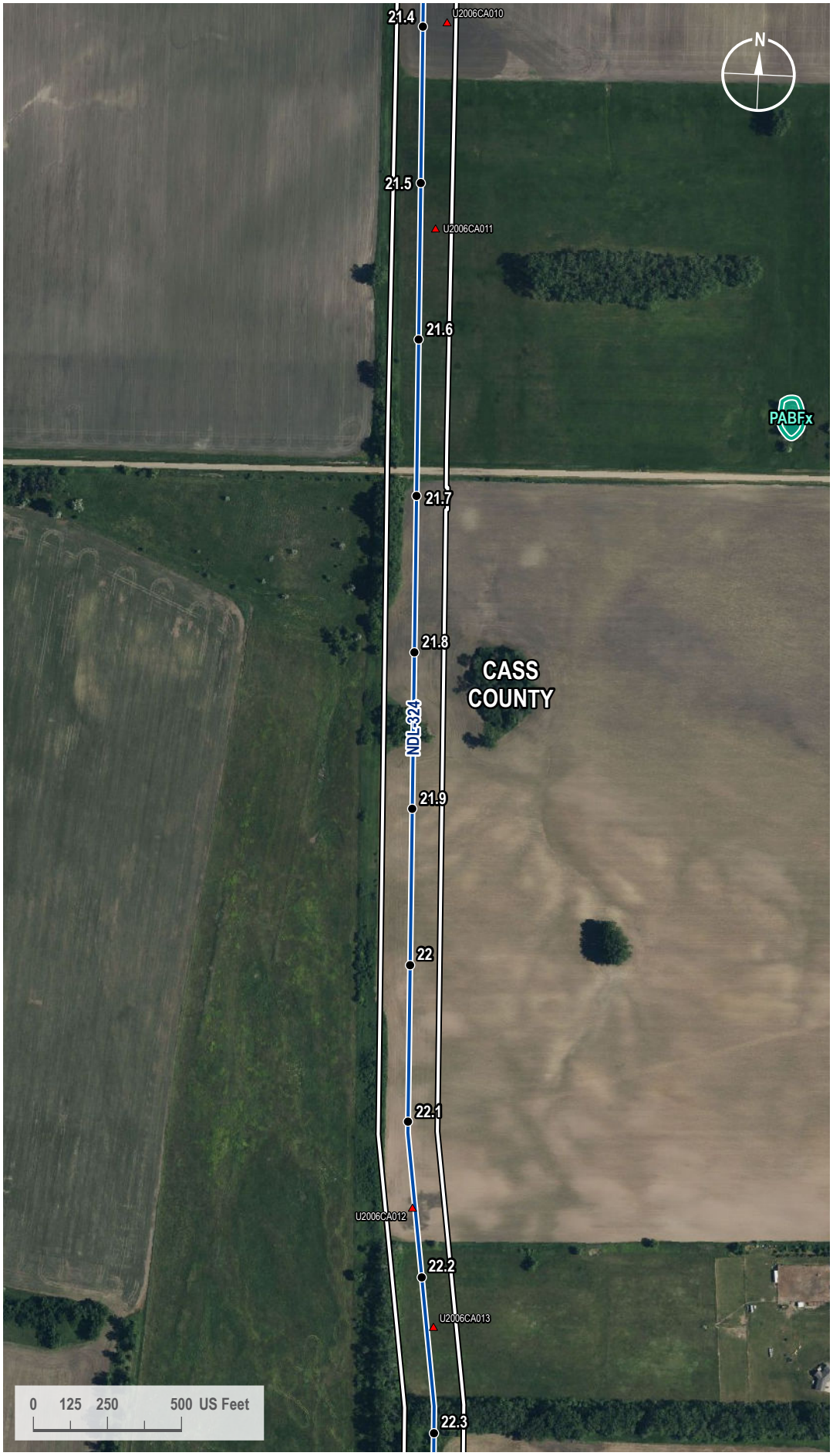

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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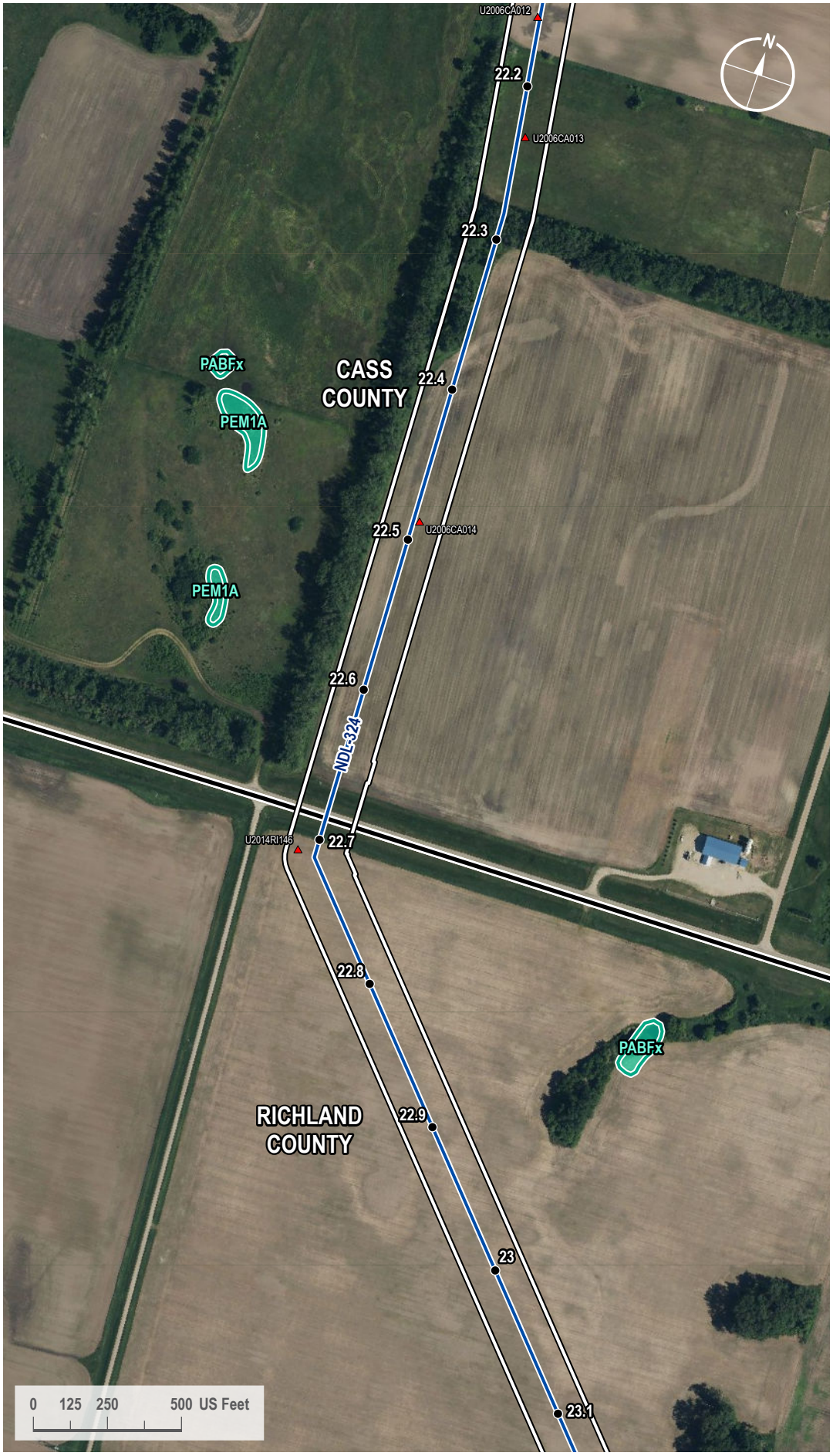

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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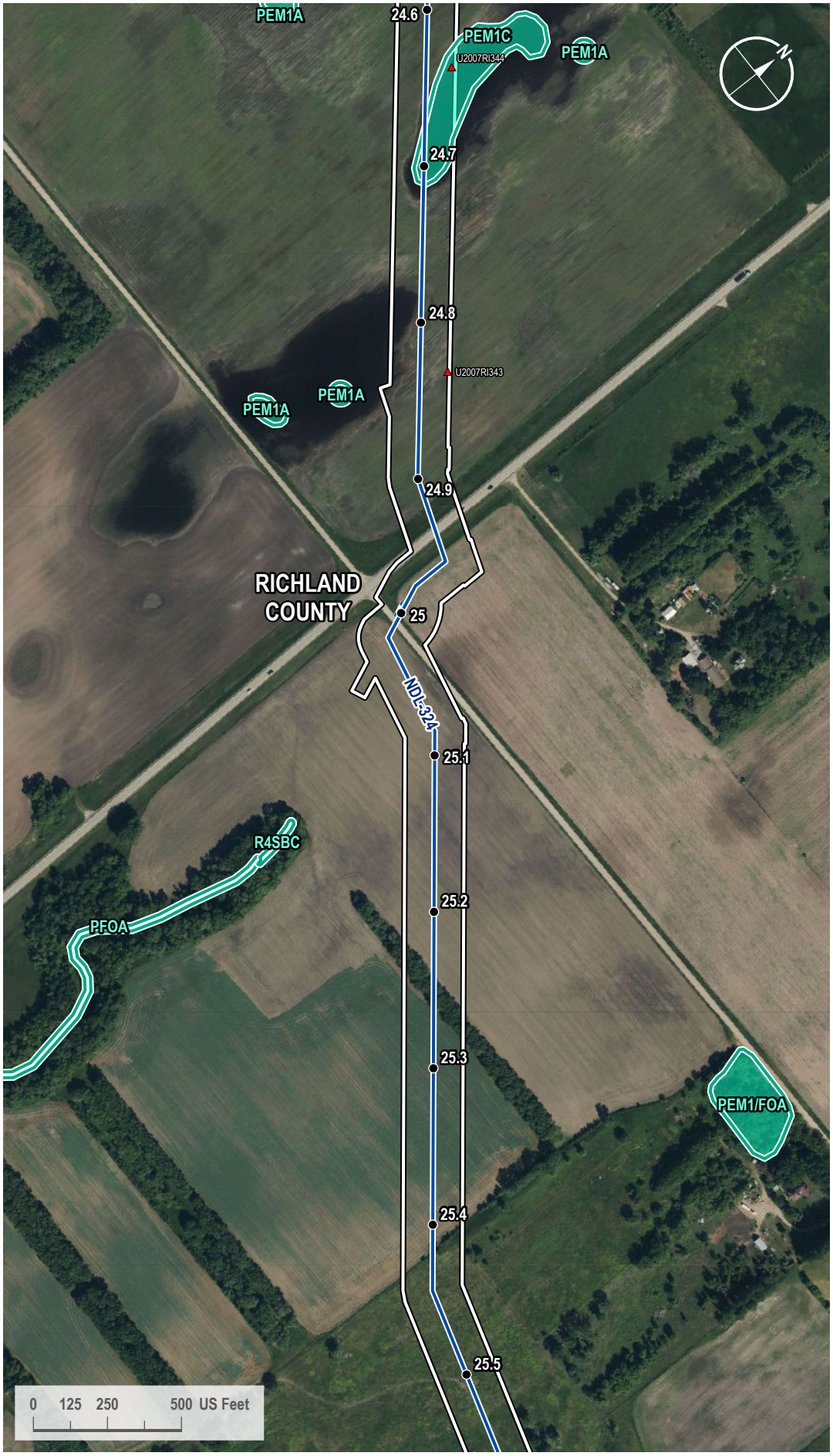

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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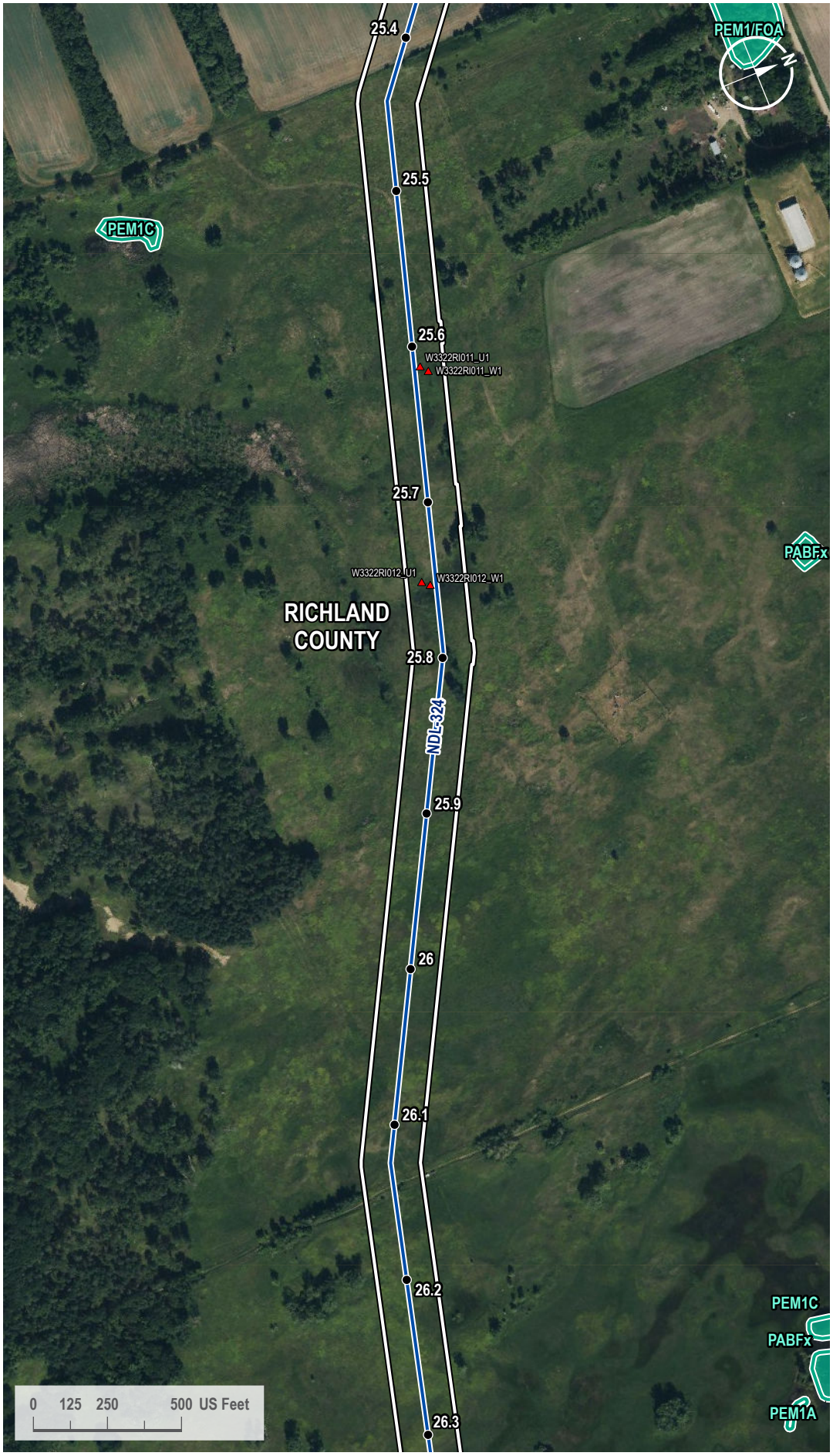

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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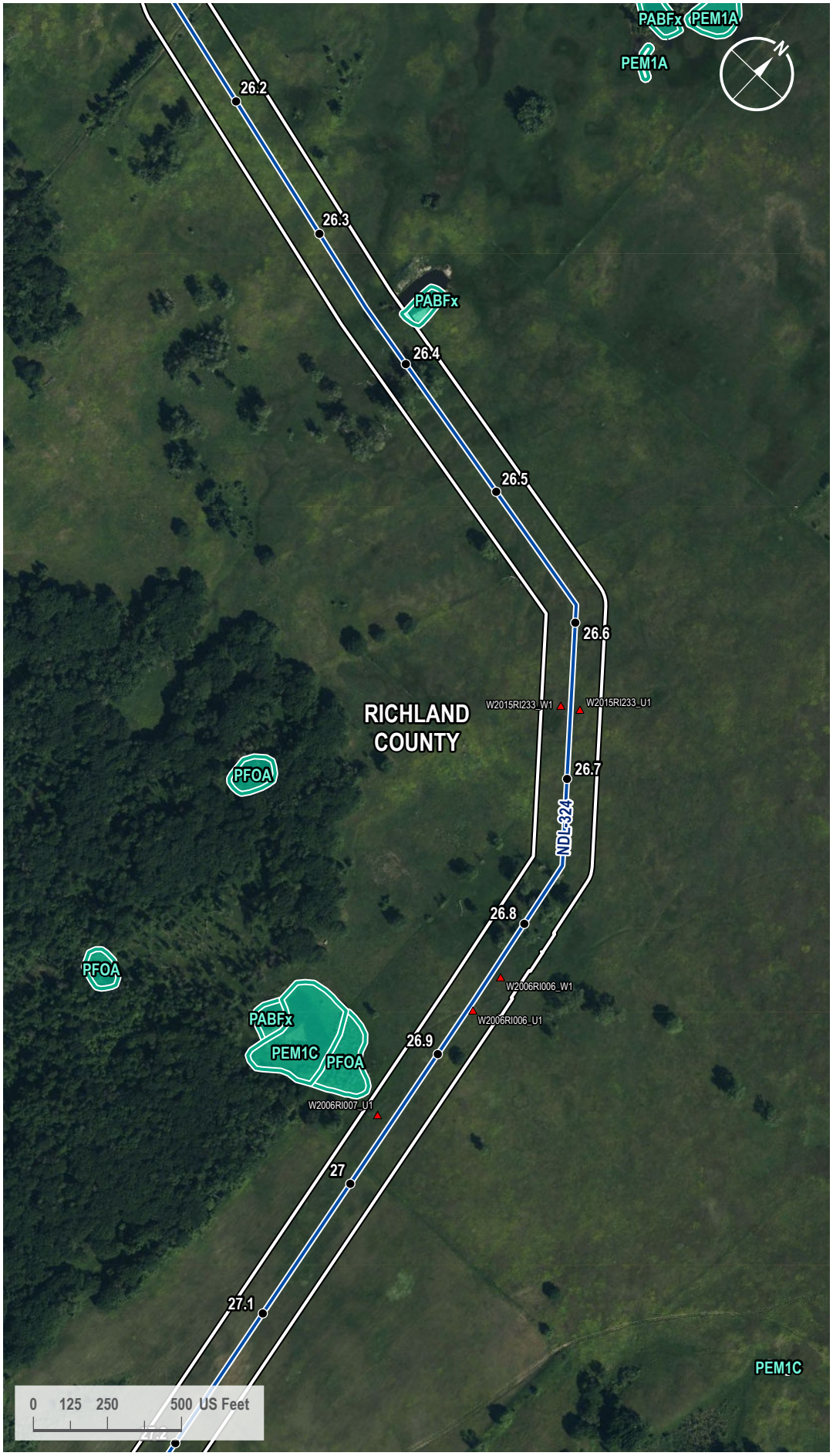

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Appendix A-4

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1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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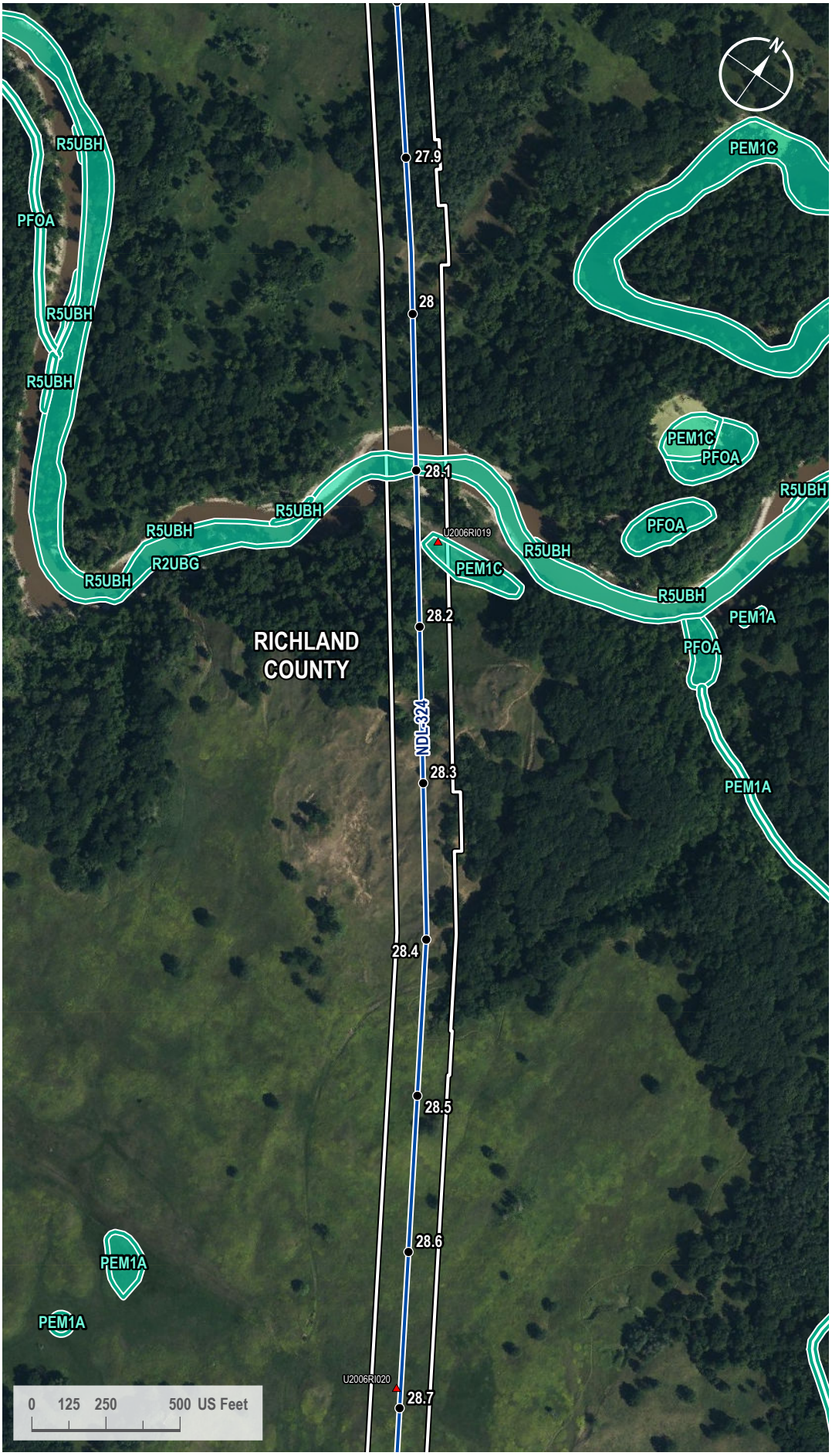
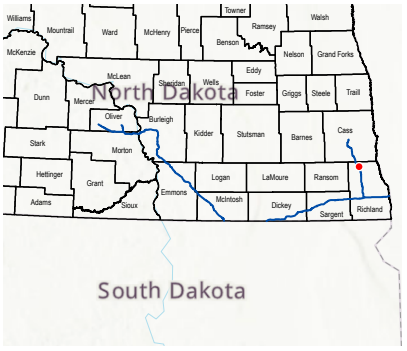


VICINITY MAP



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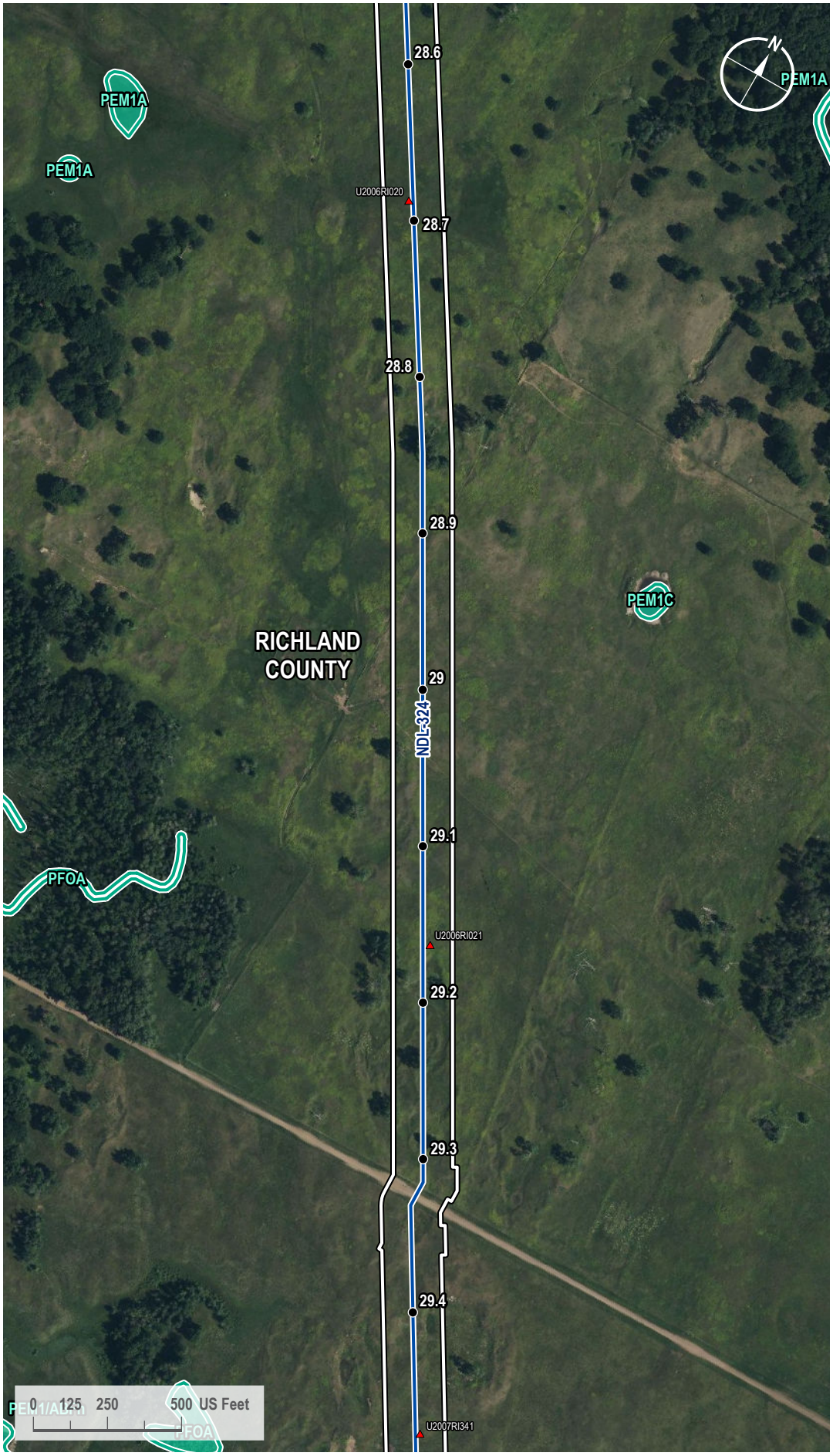

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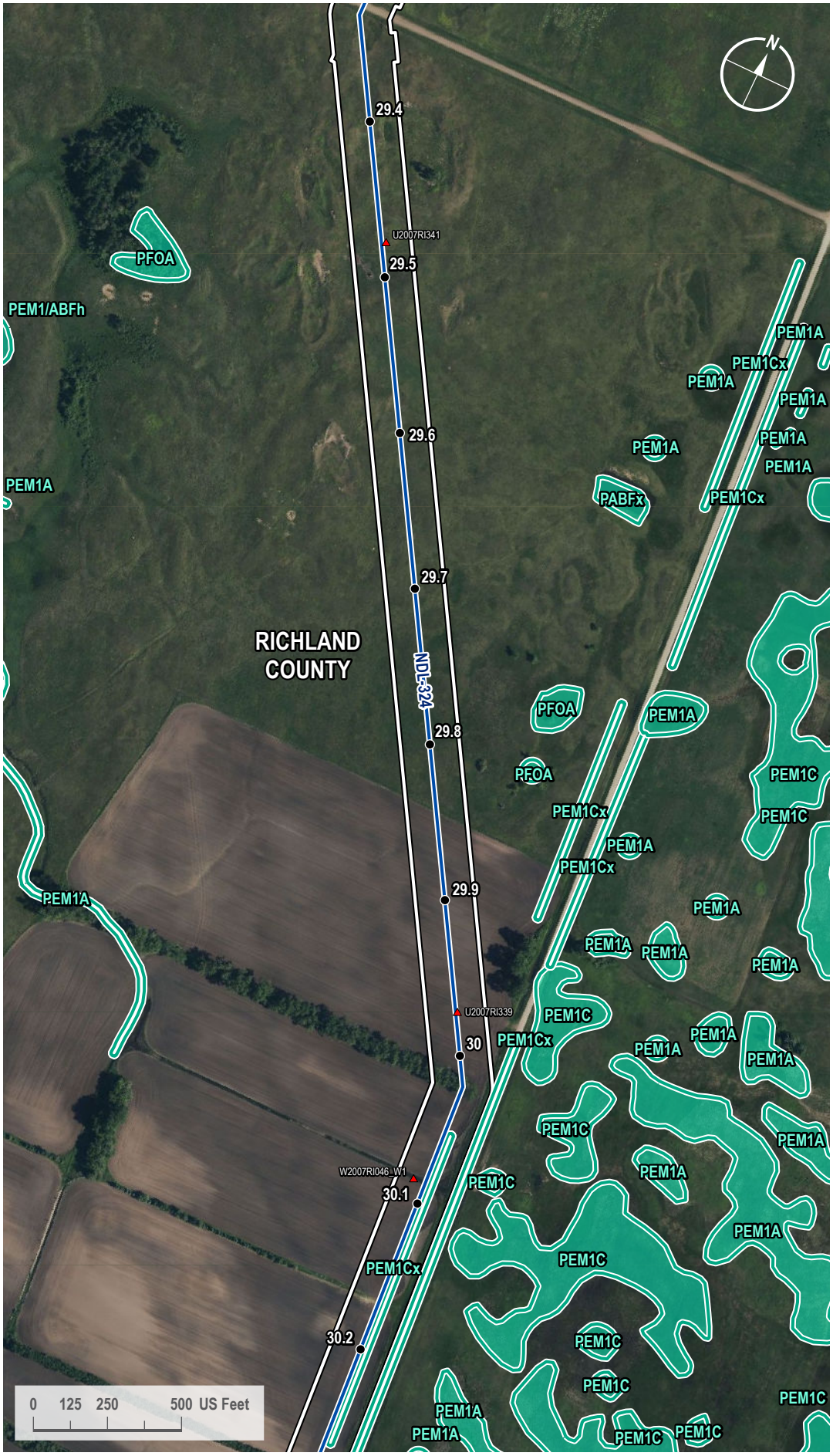

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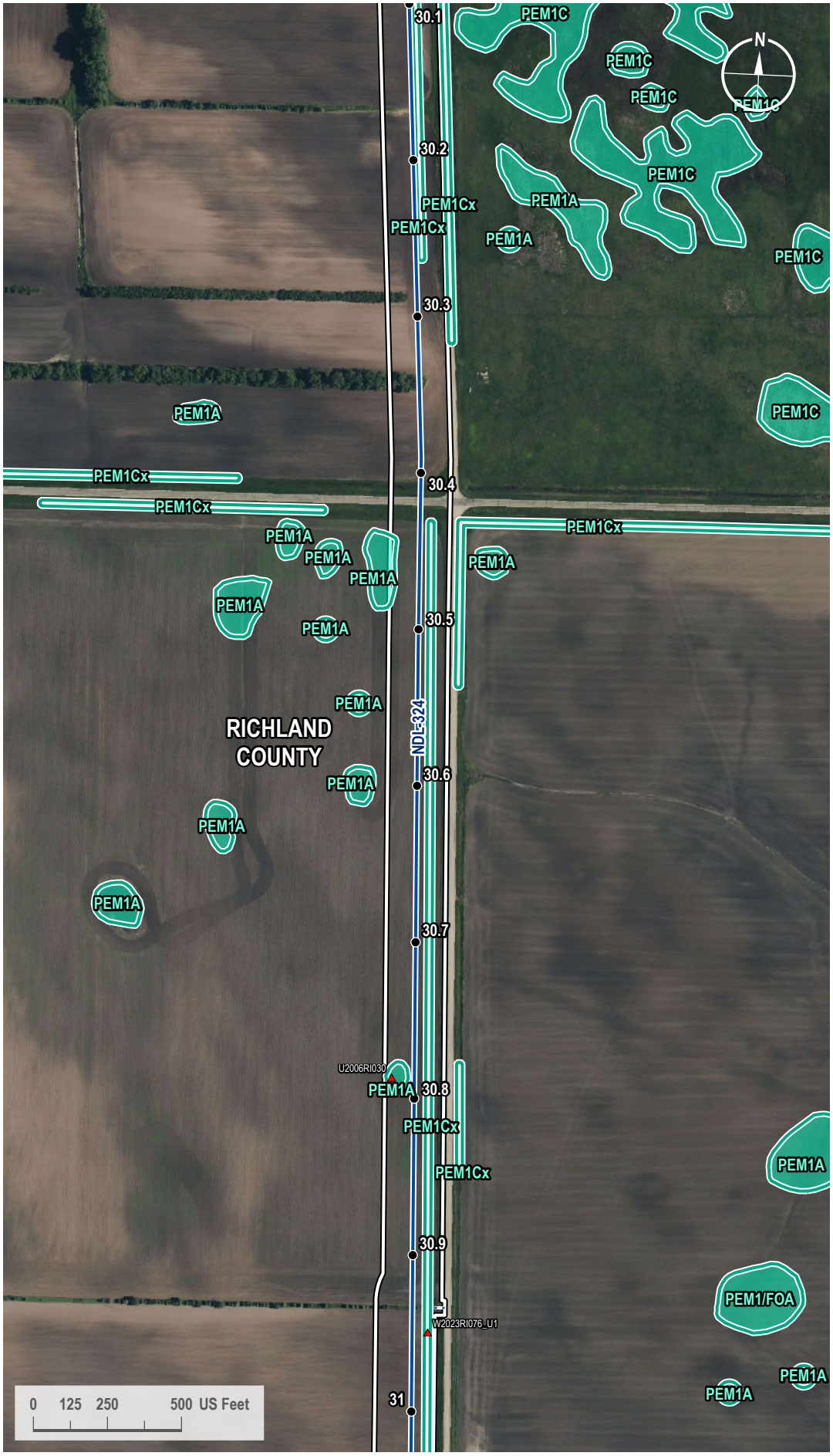

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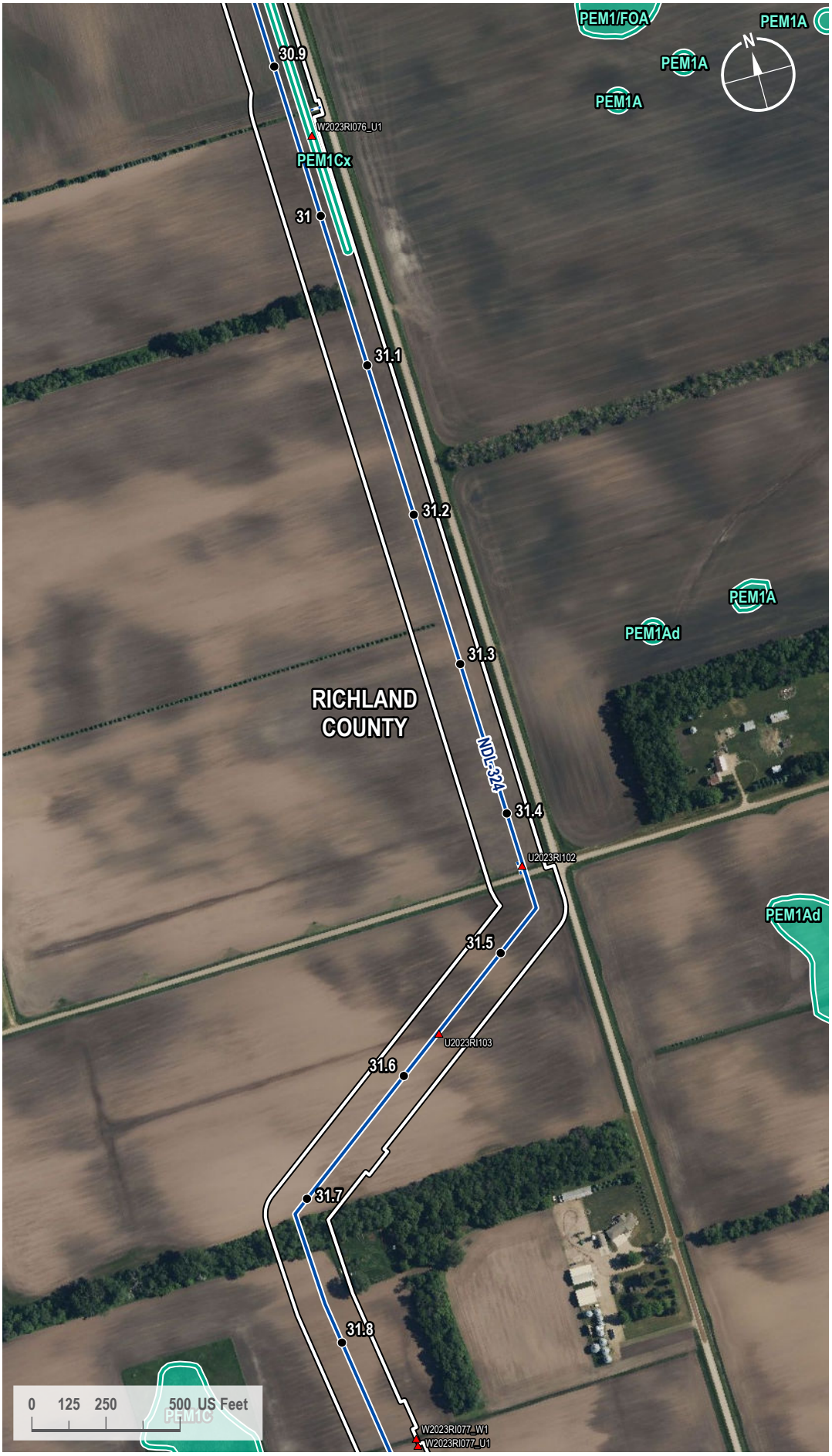

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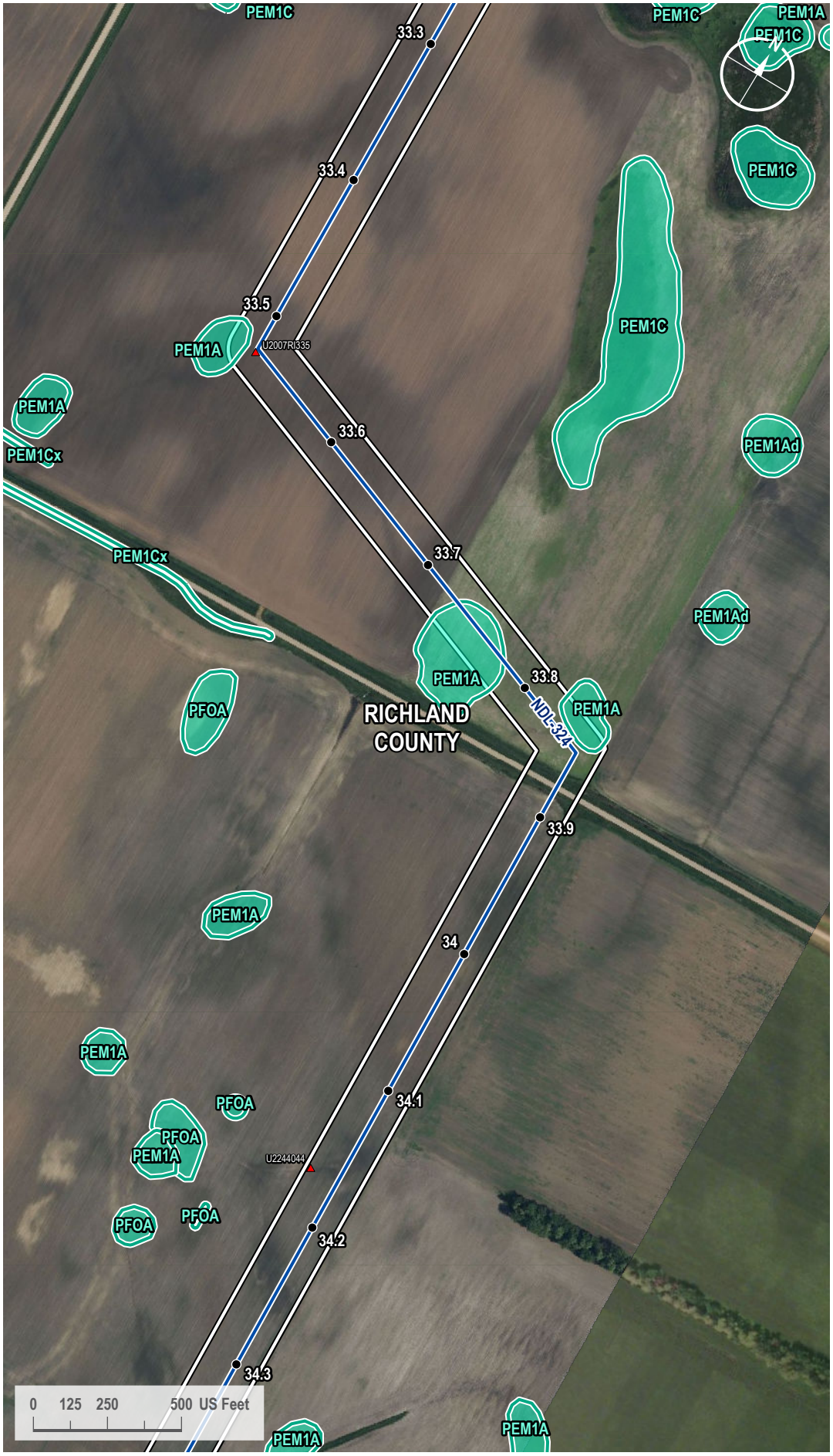

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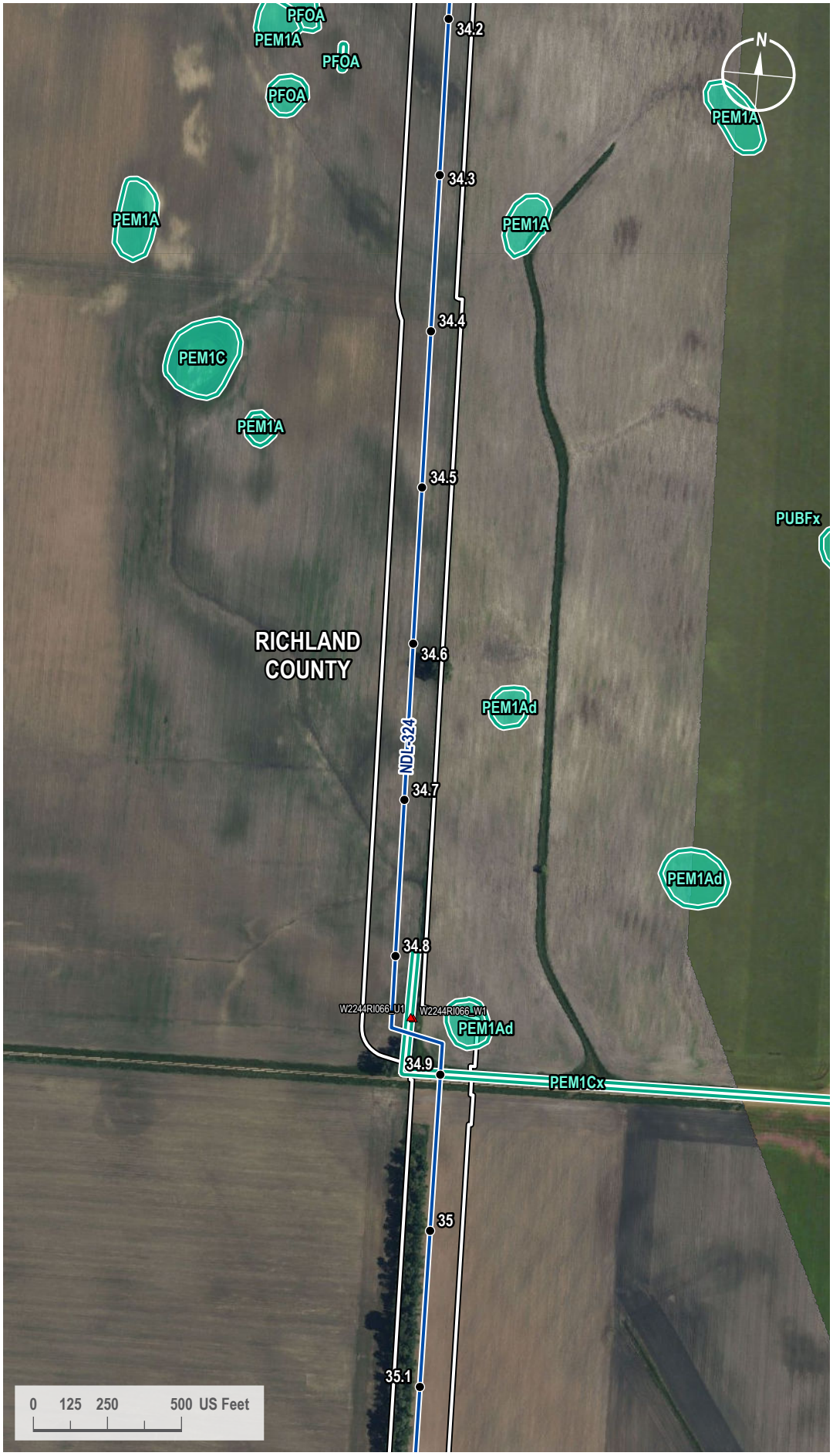

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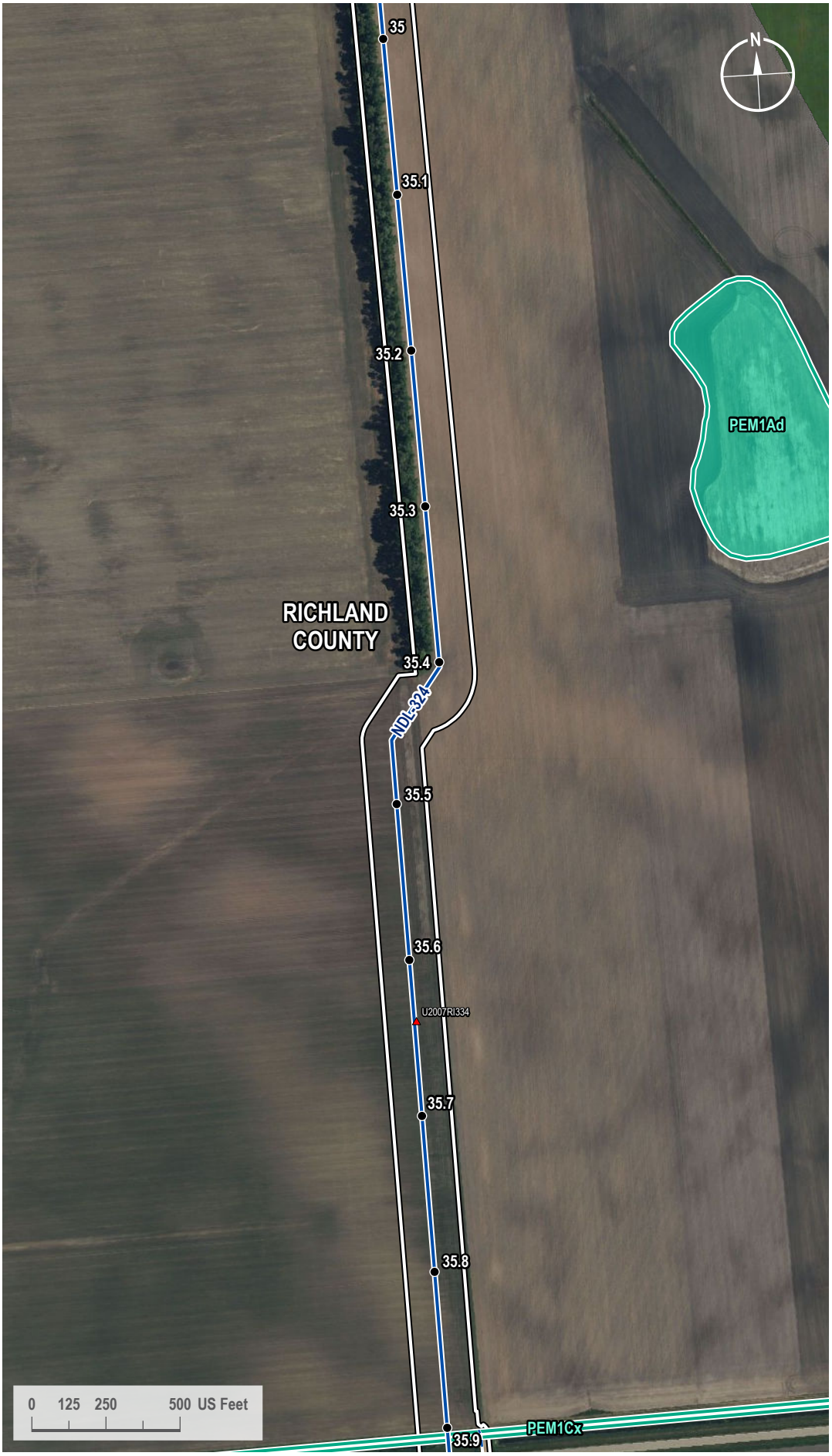

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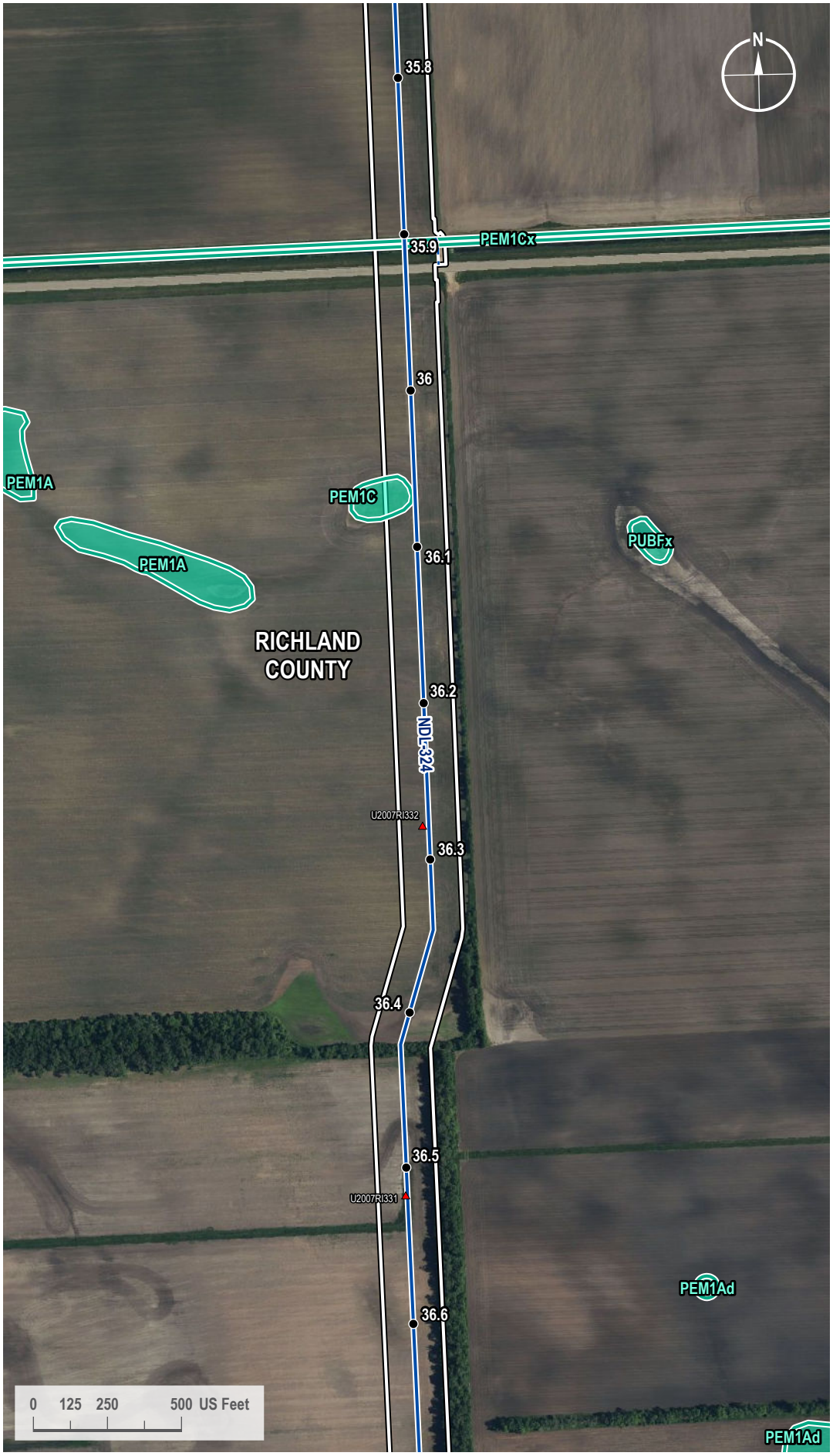

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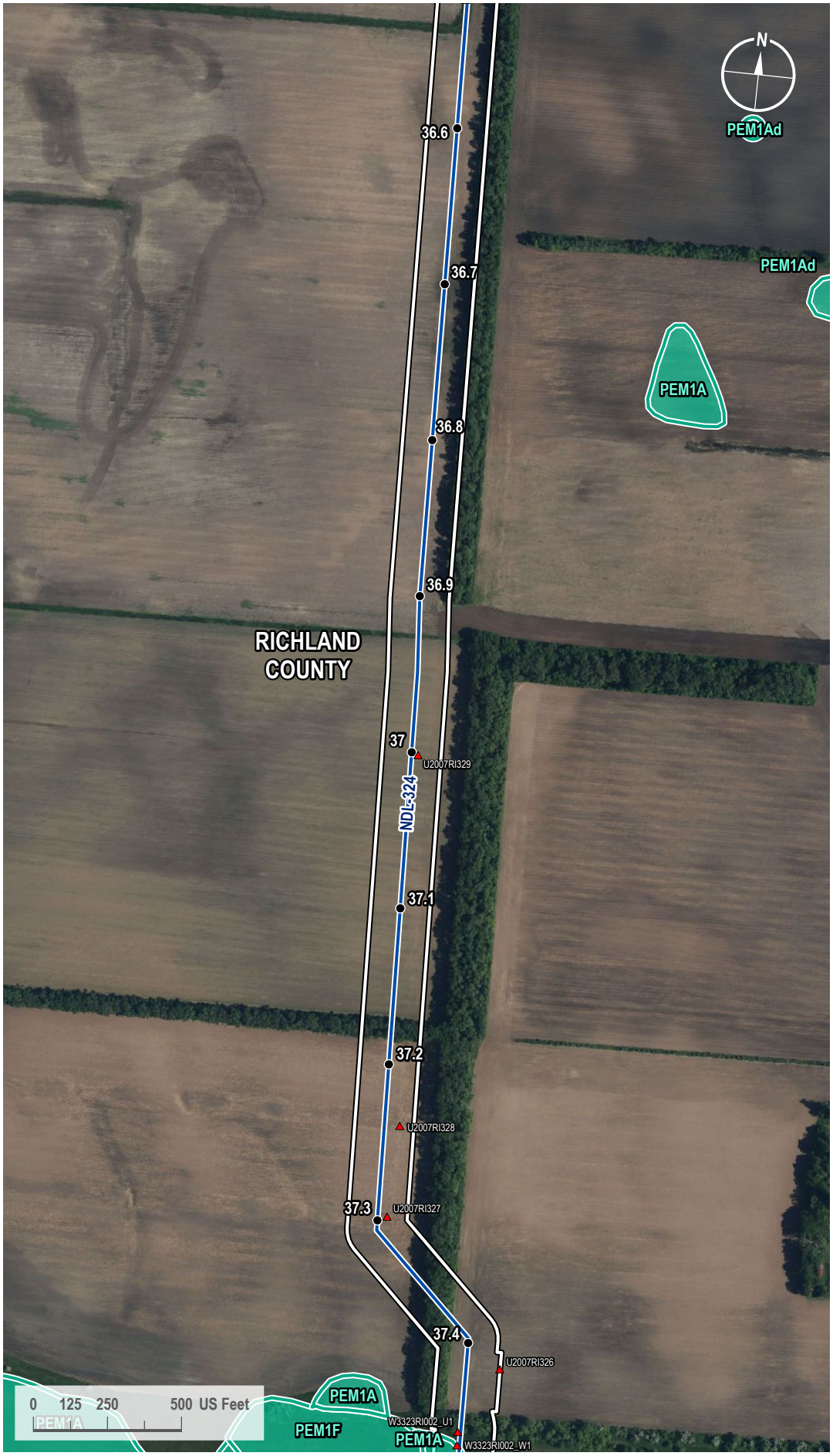

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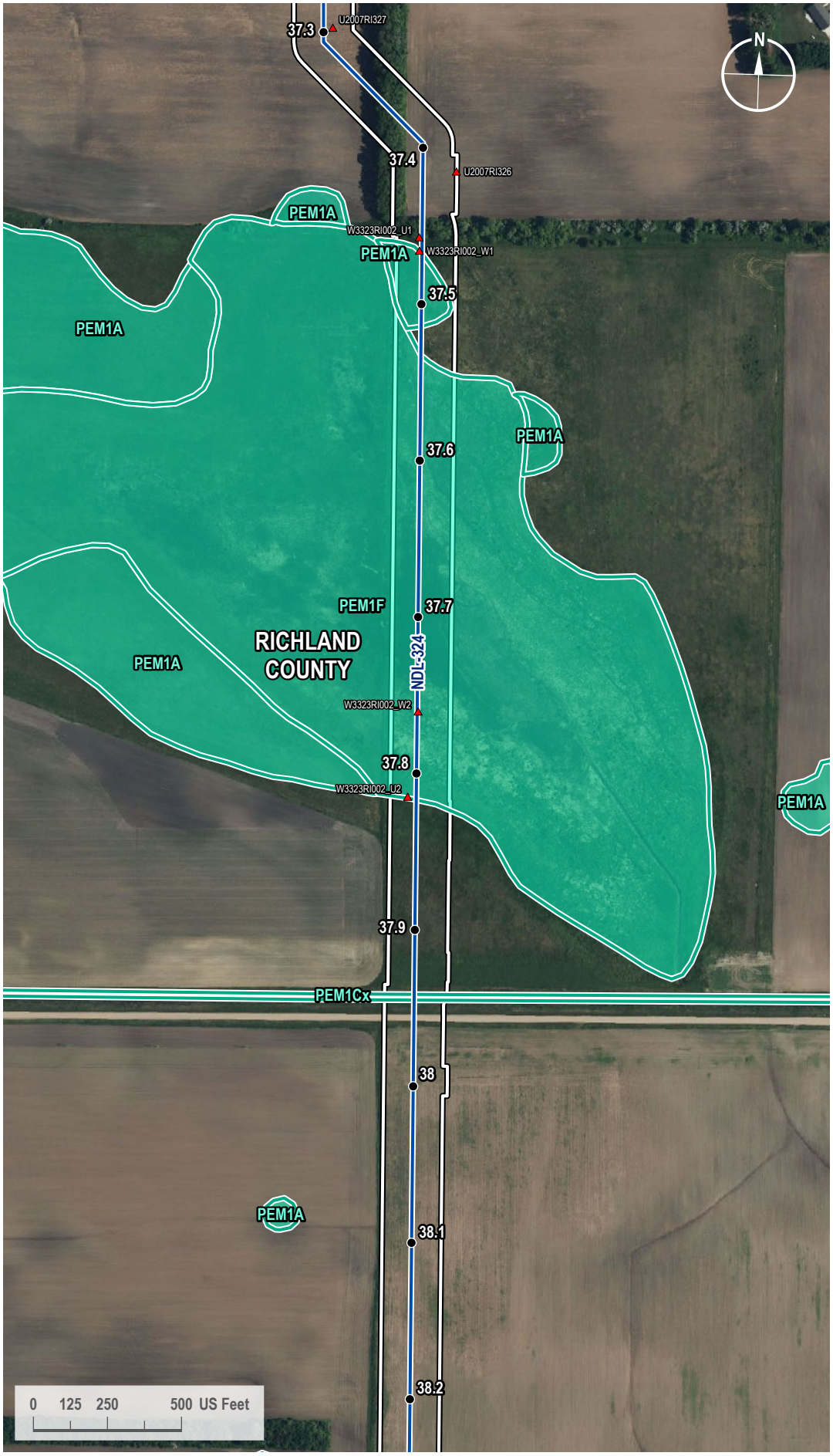

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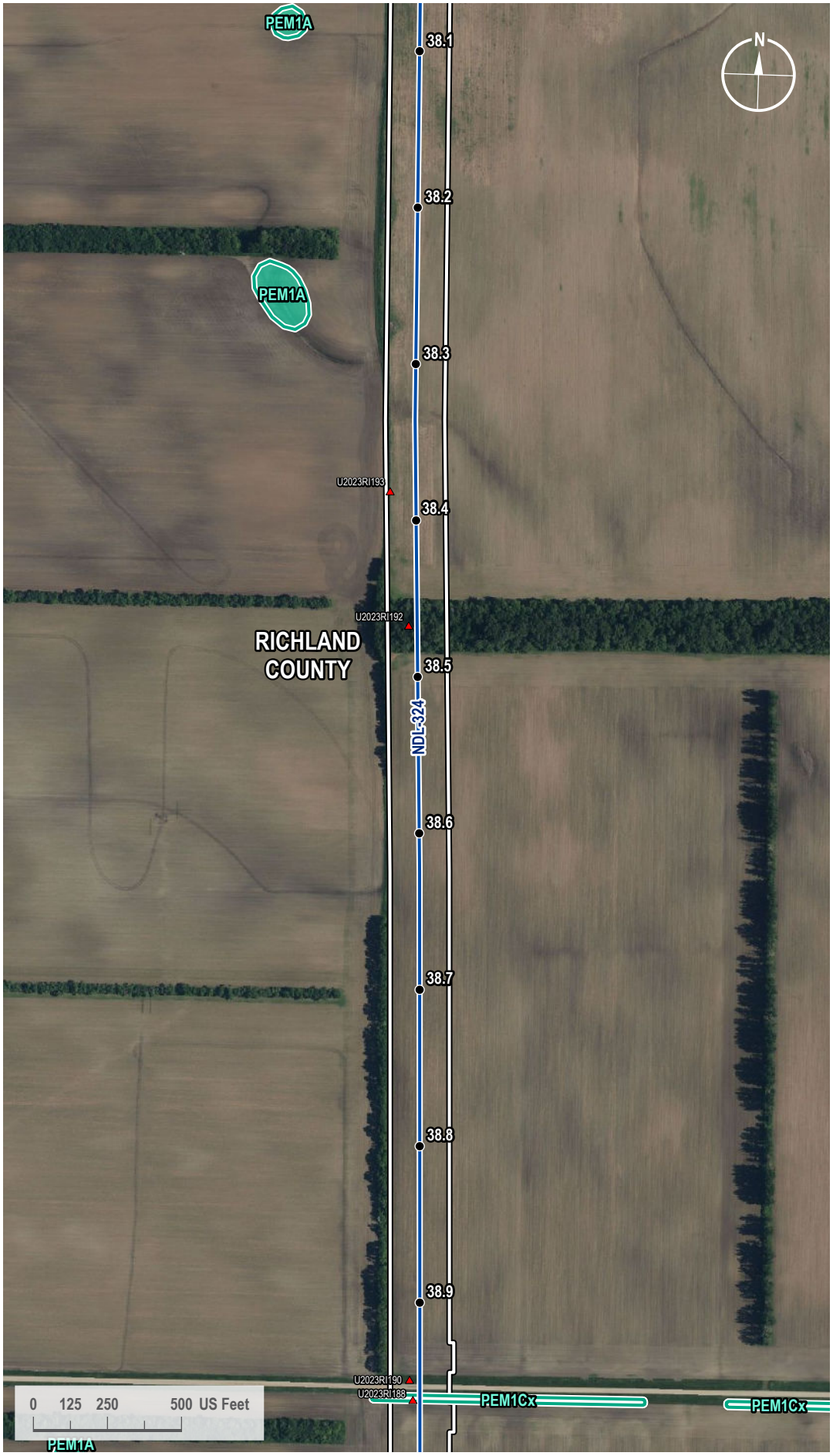

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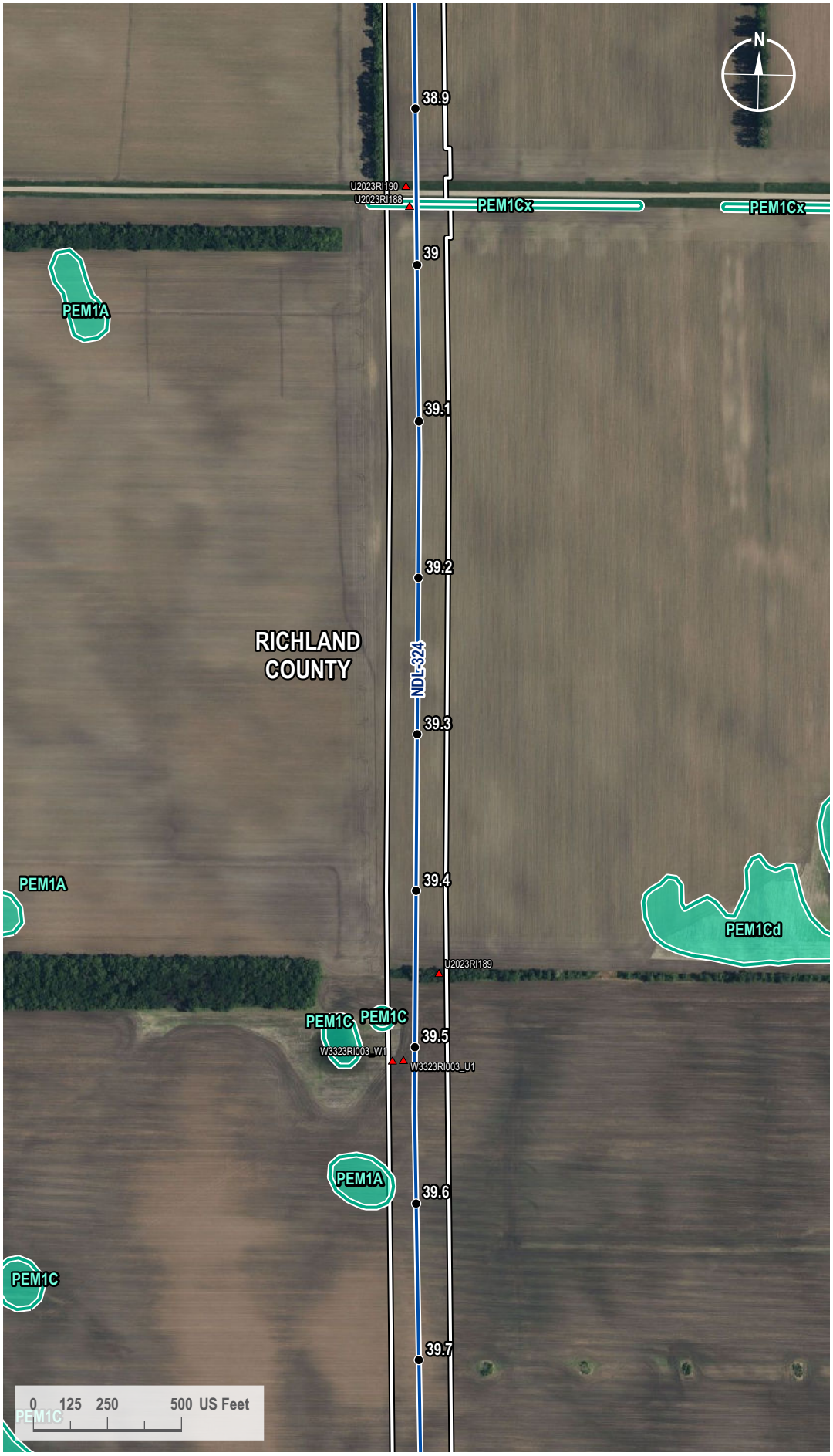

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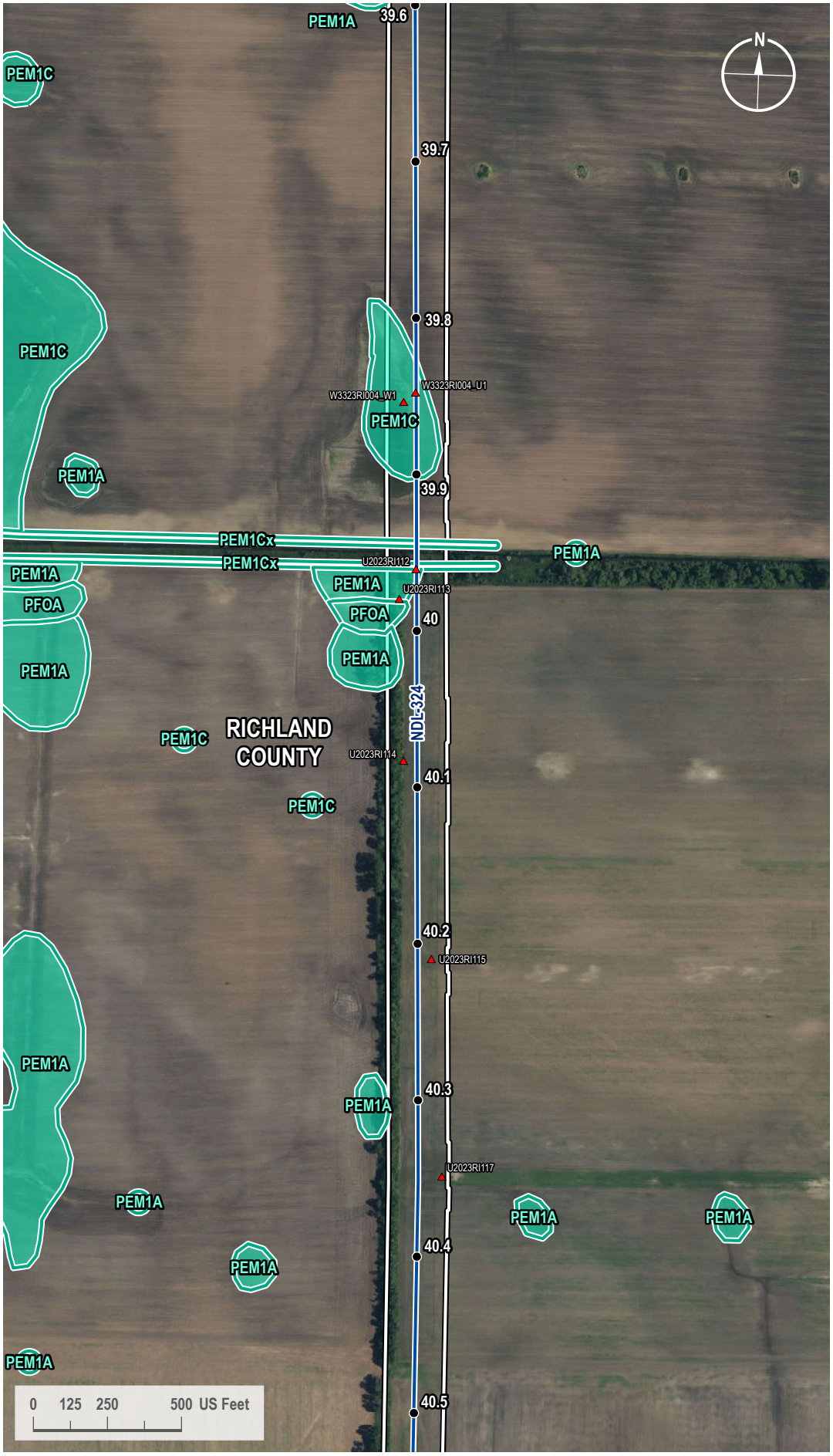

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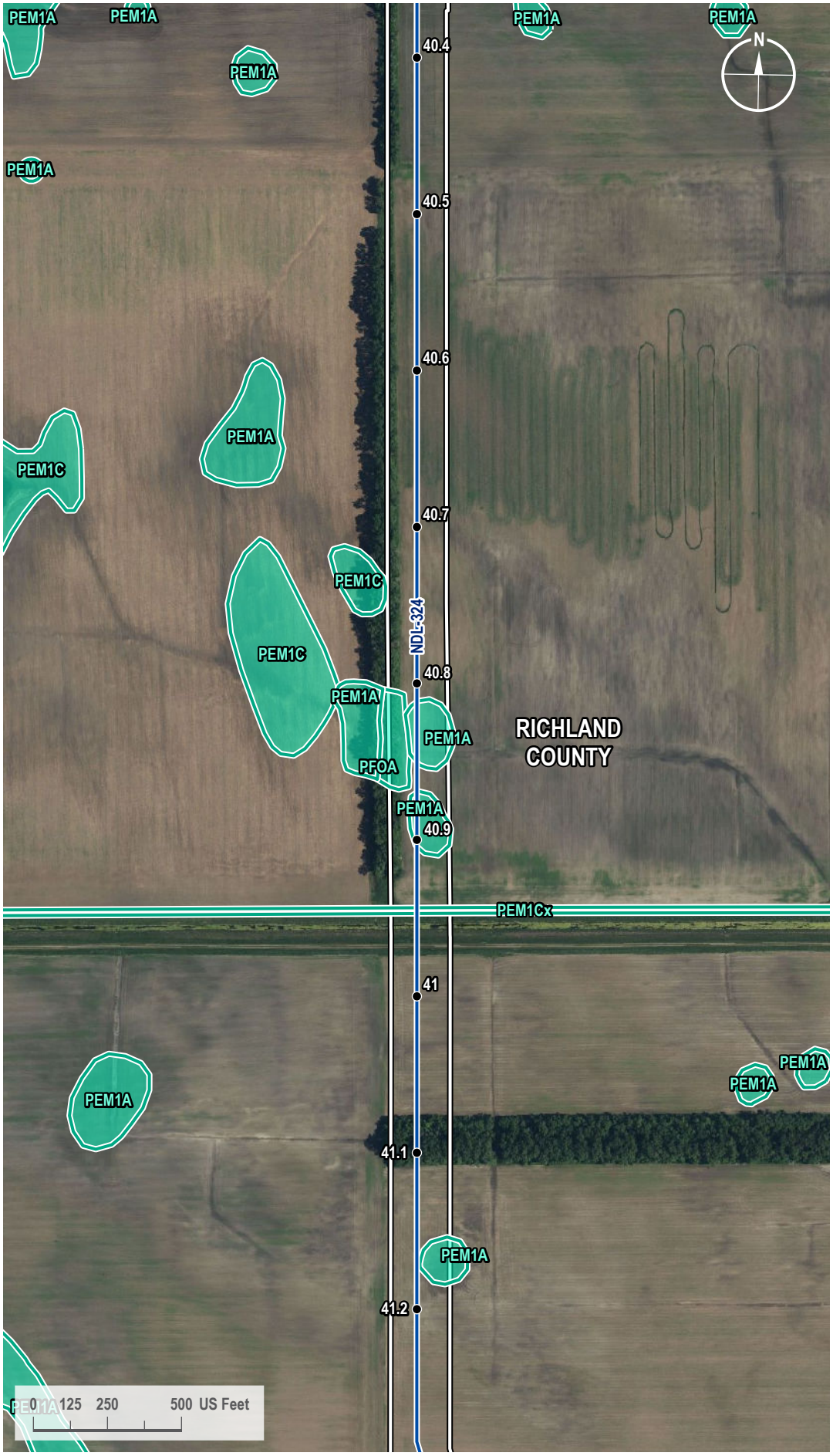

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NWI Map

Figure Number:
Appendix A-4

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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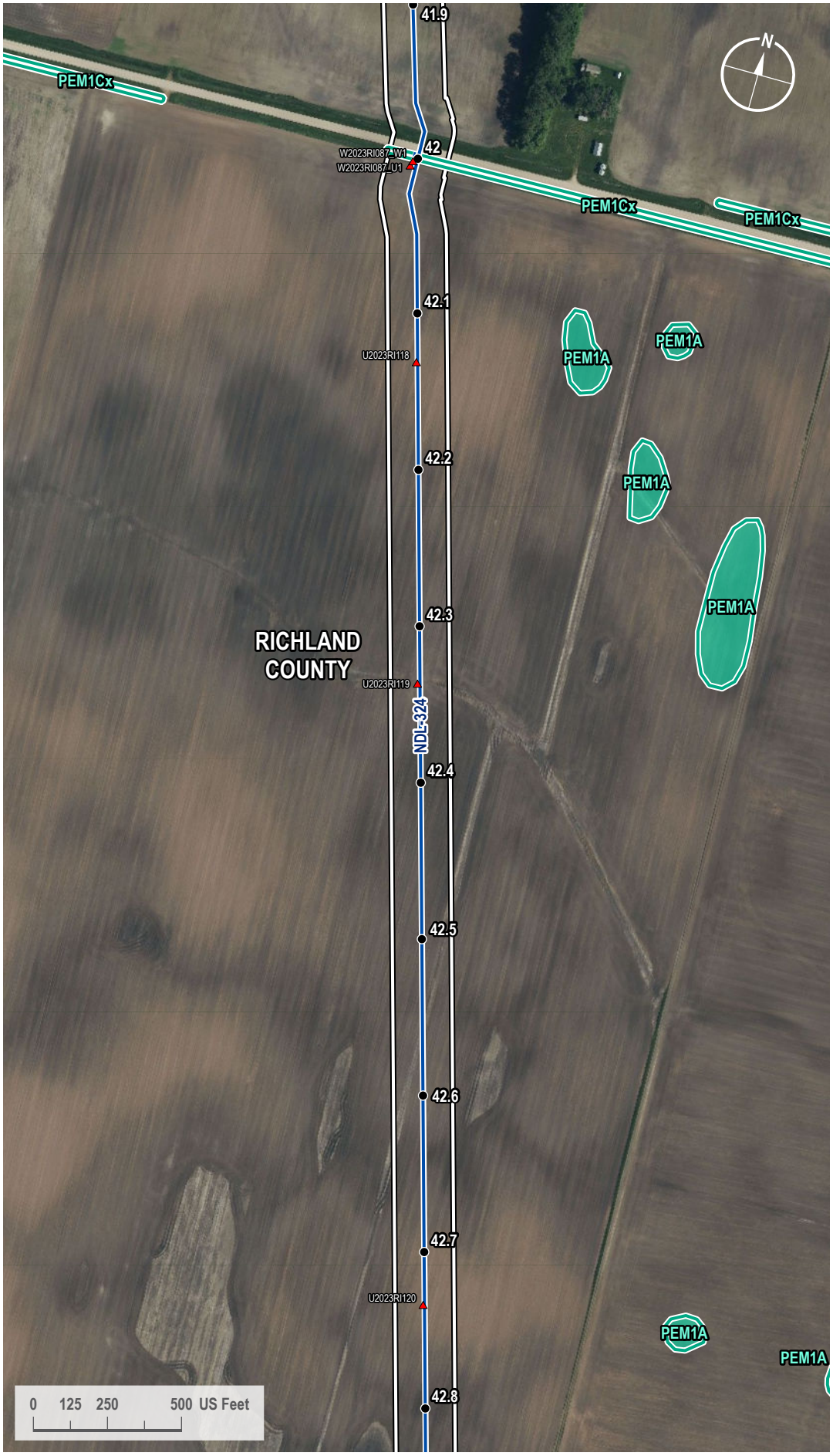
NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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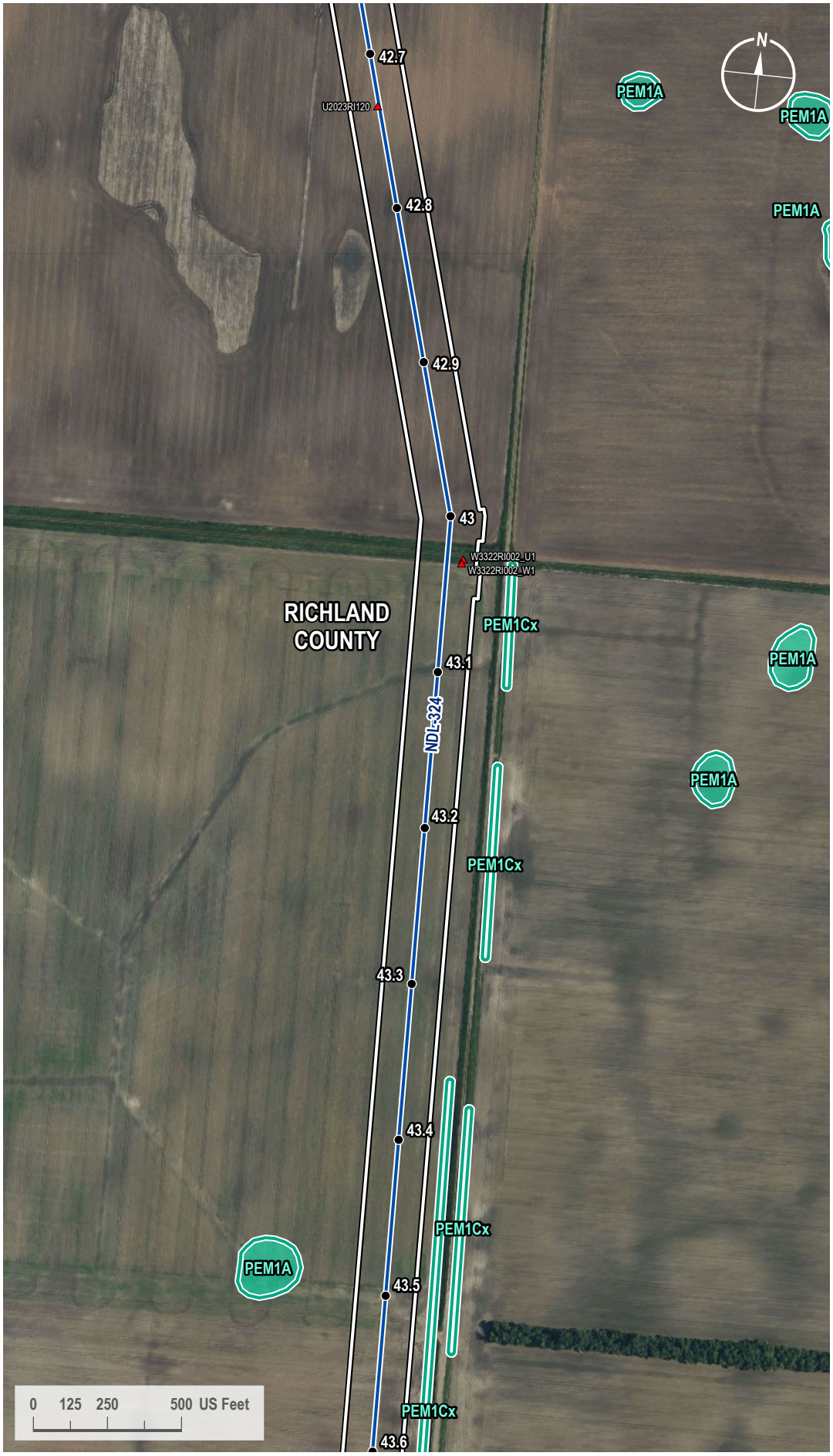

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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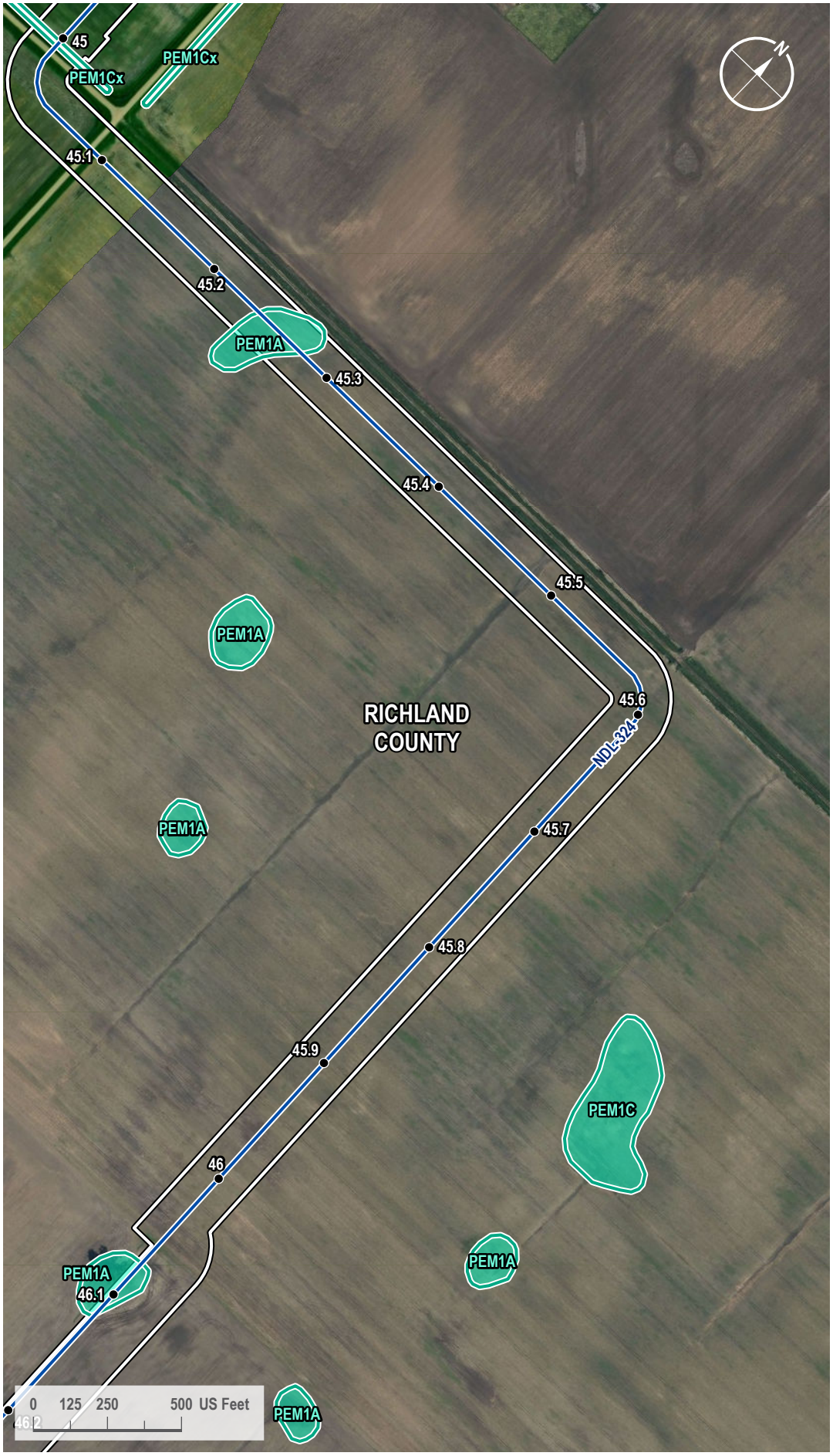
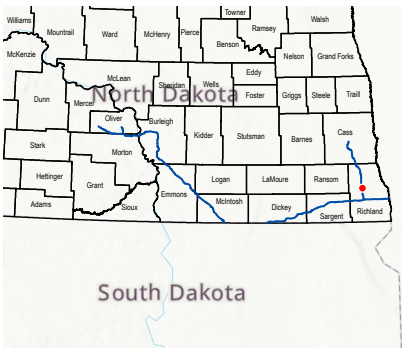


VICINITY MAP



LEGEND

- Milepost
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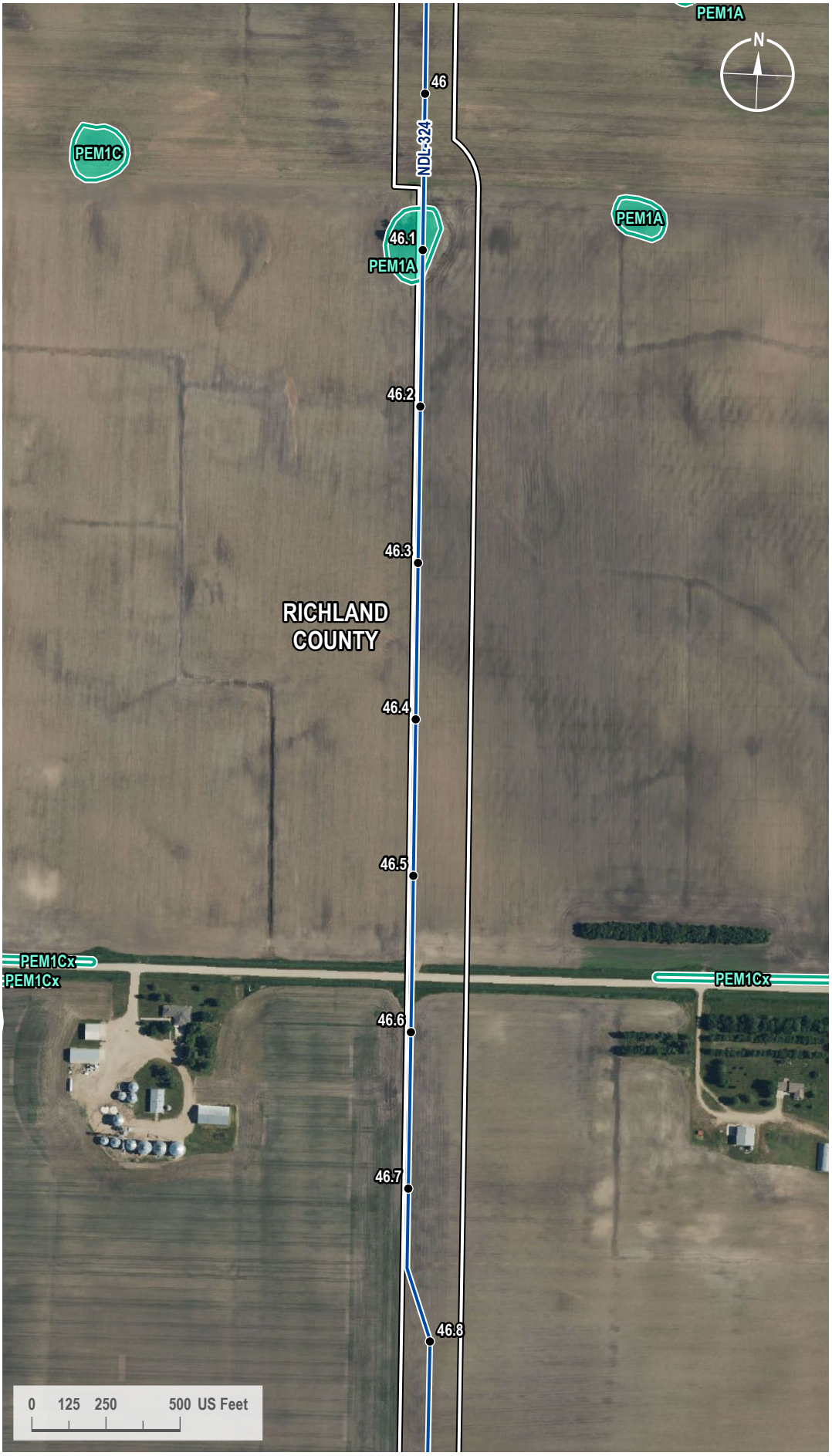

VICINITY MAP



LEGEND

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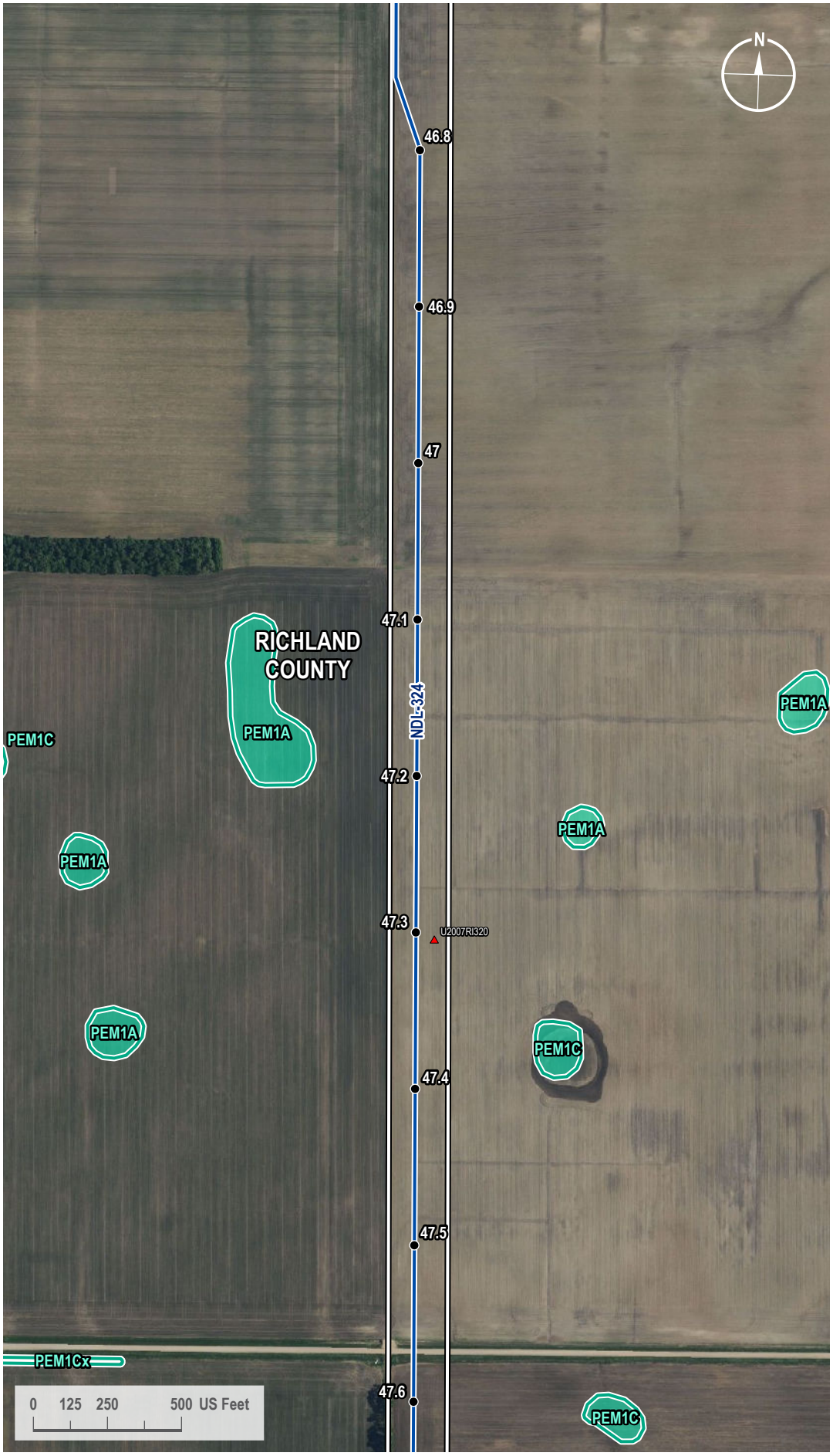

VICINITY MAP



LEGEND

- Milepost
- Soil Station
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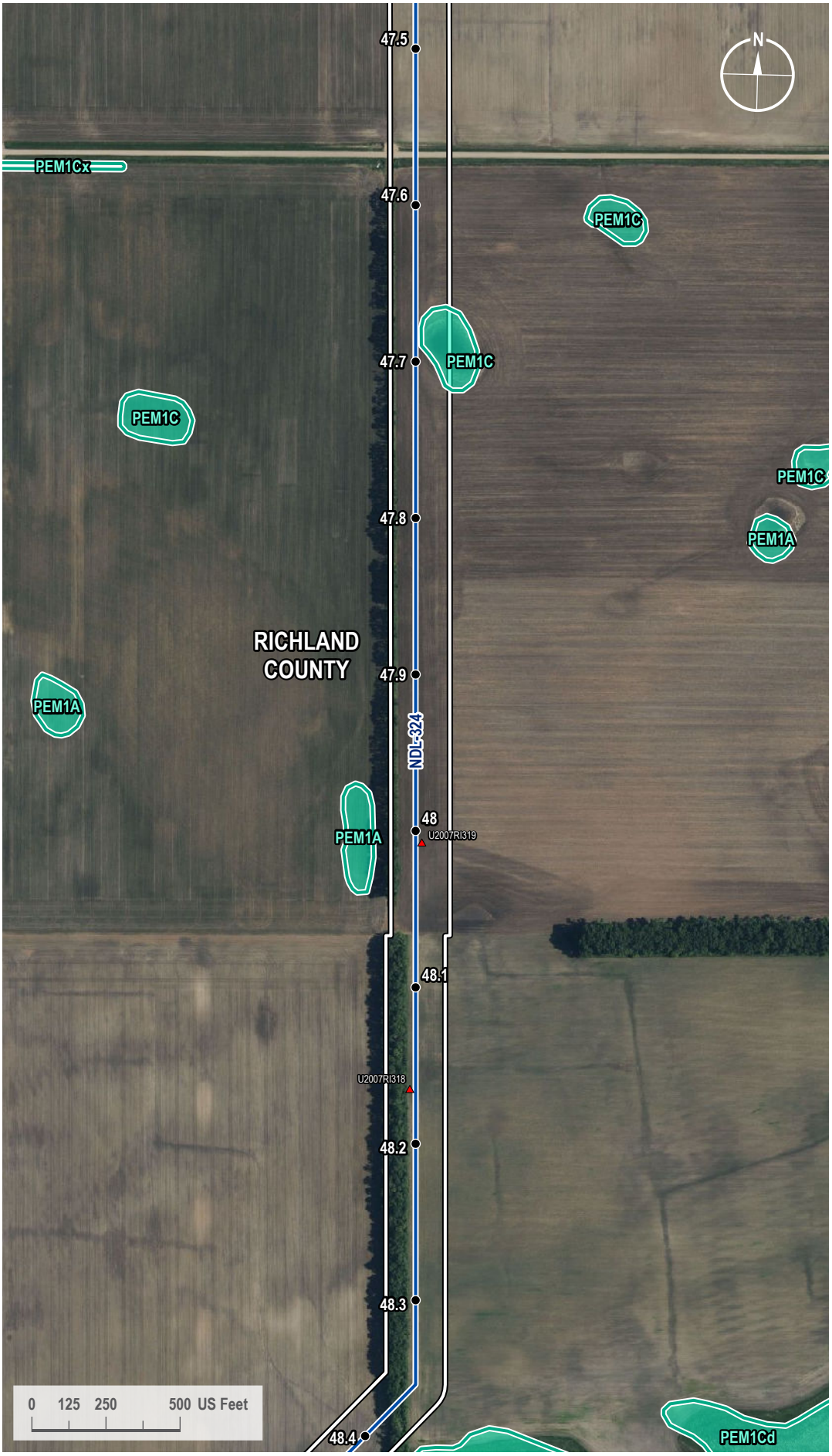

VICINITY MAP



LEGEND

- Milepost
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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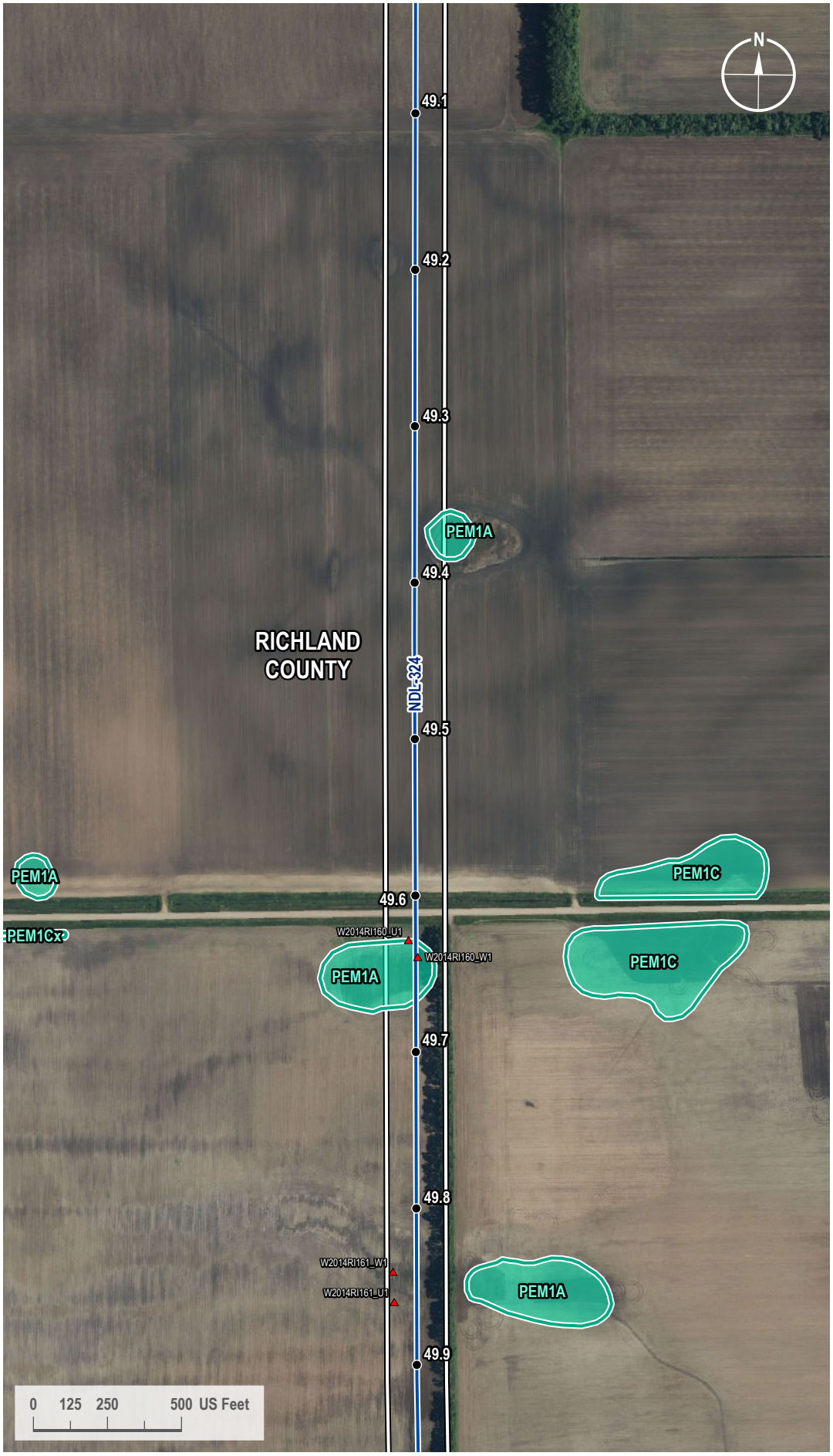

VICINITY MAP



LEGEND

- Milepost
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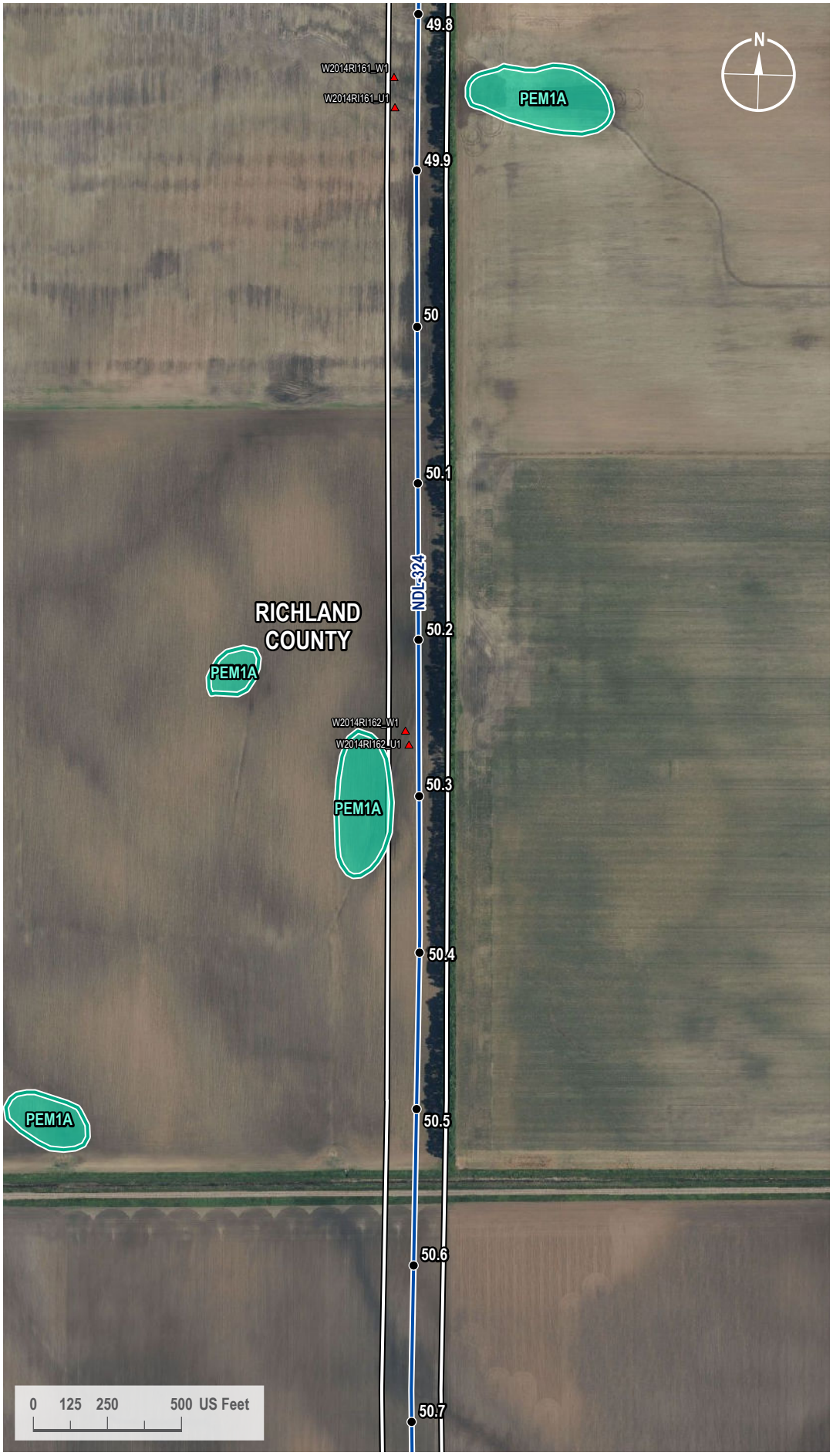

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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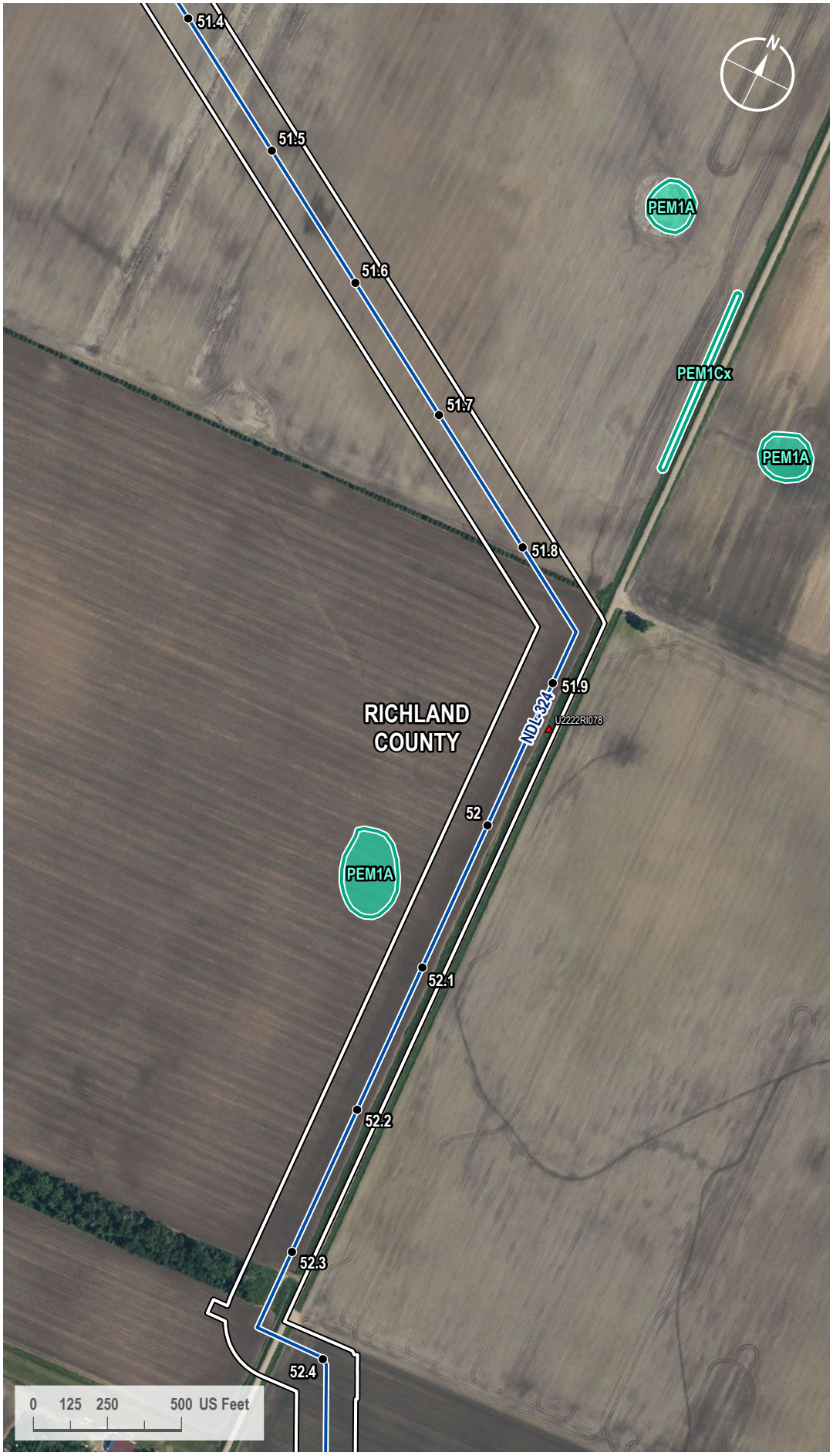

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
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- 200-foot Siting Corridor
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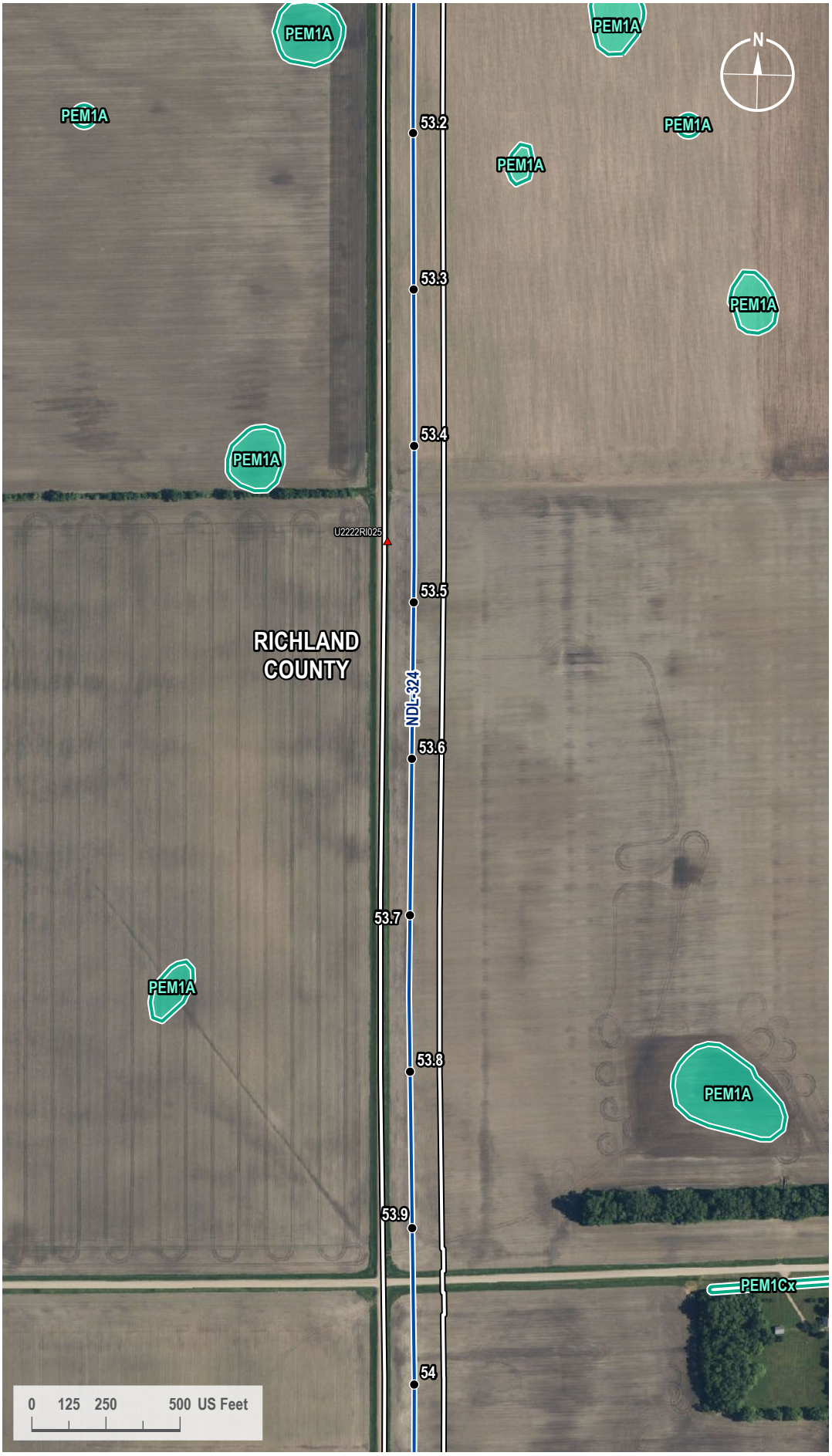

VICINITY MAP



LEGEND

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- Proposed Route
- 200-foot Siting Corridor
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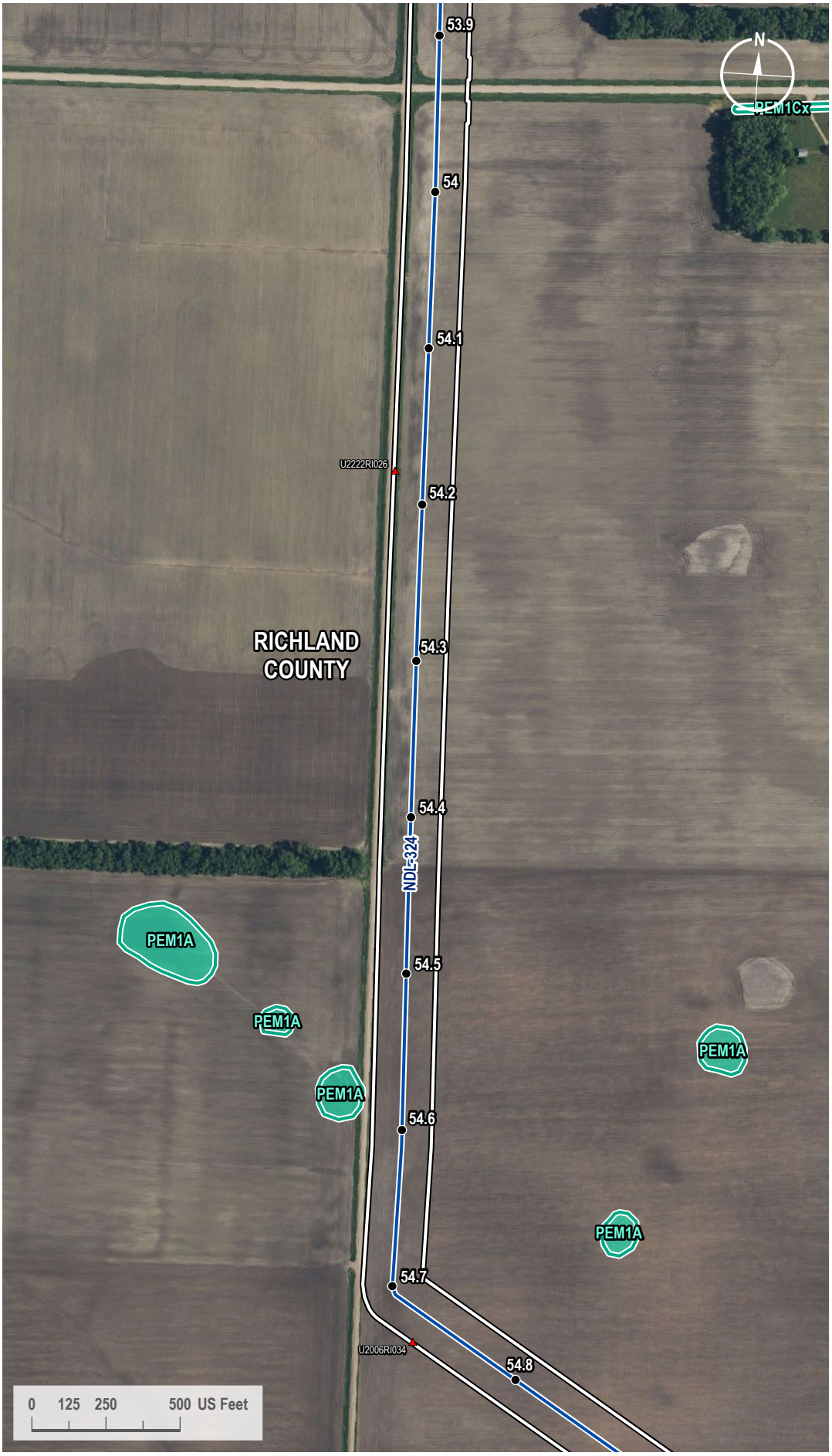

VICINITY MAP



LEGEND

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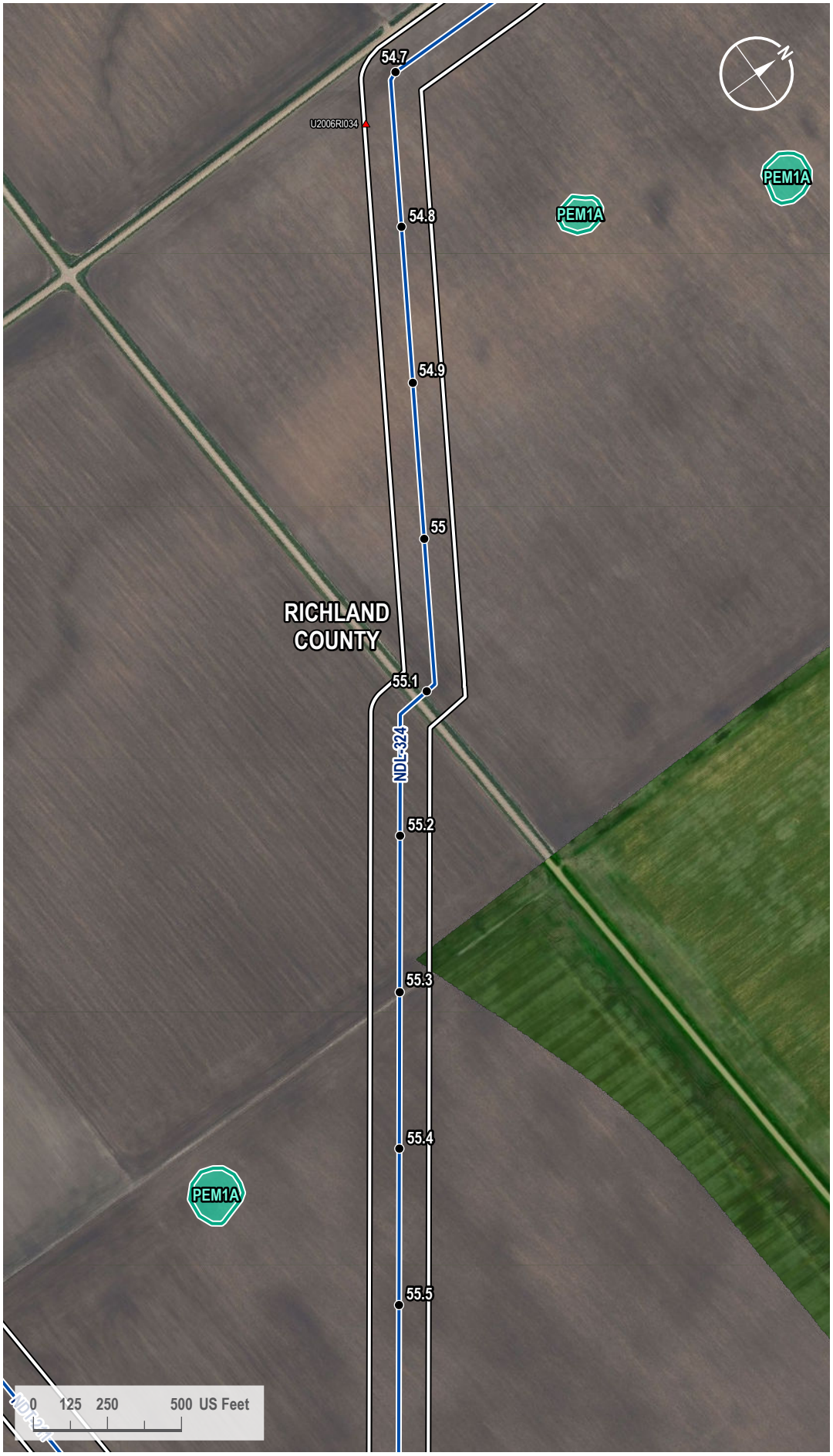

VICINITY MAP



LEGEND

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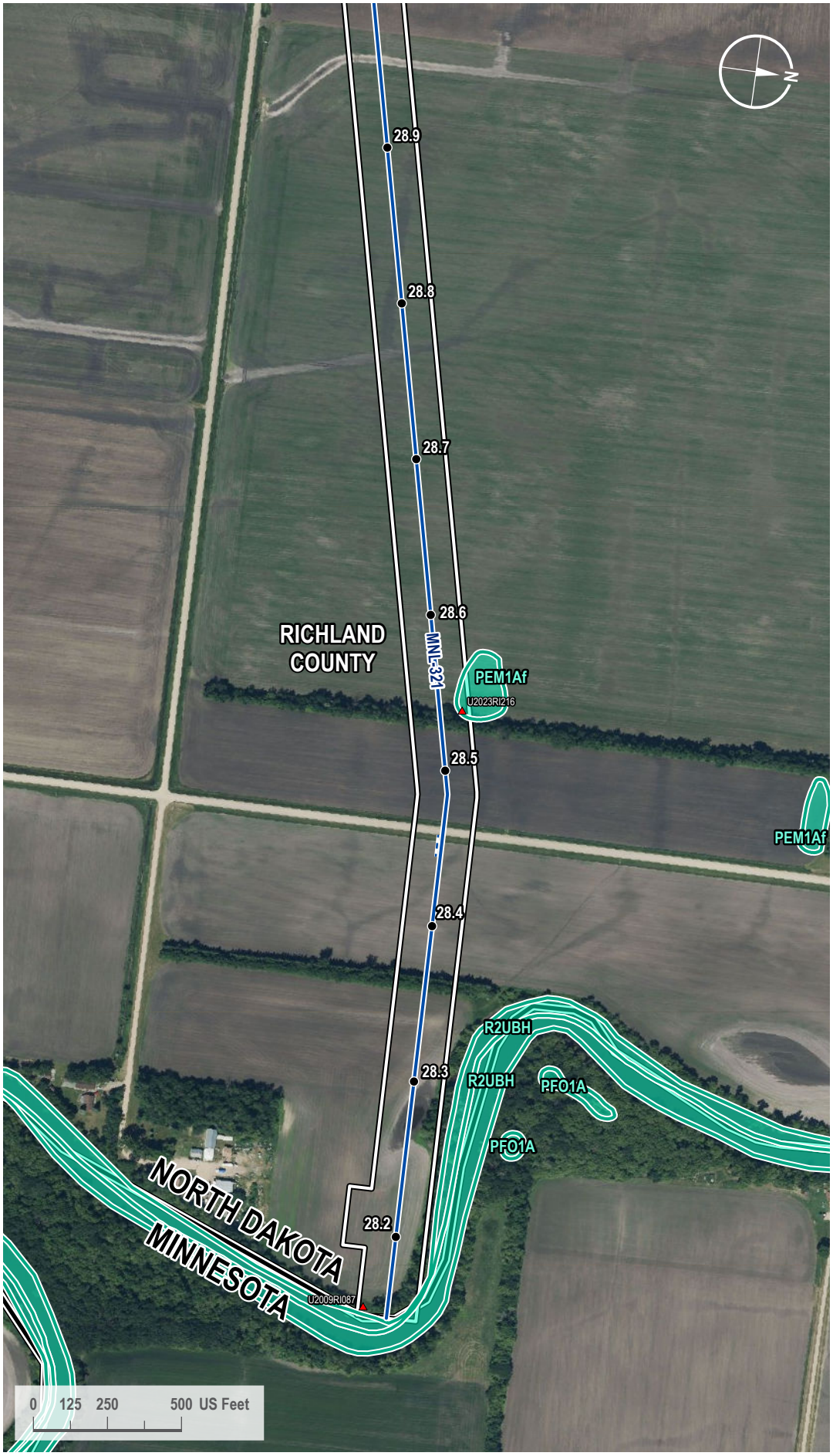

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- State Line
- County Line
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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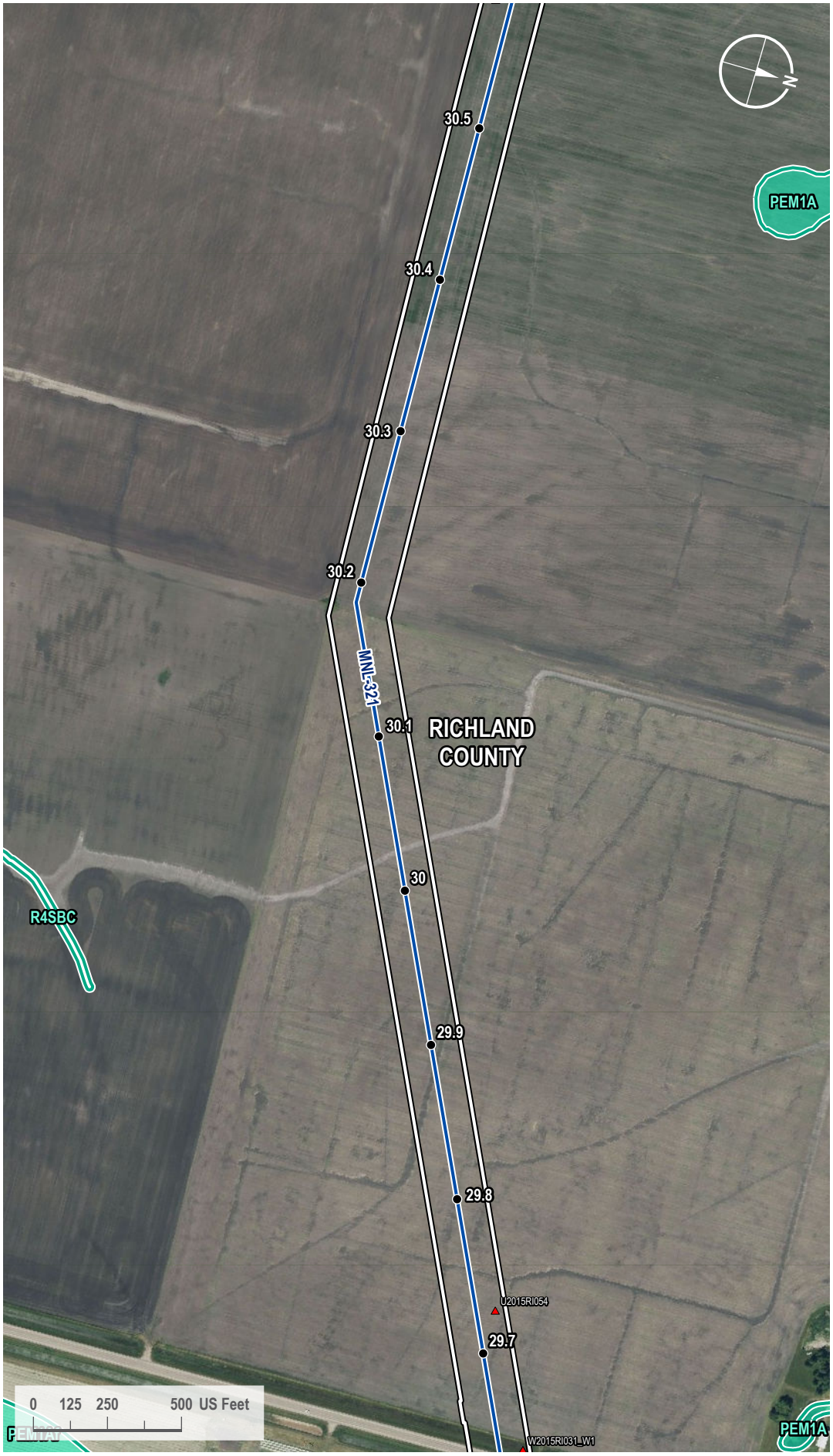

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI Map

Figure Number:
Appendix A-4

Scale:	Projection:
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Sheet:	**Drawing Number:**
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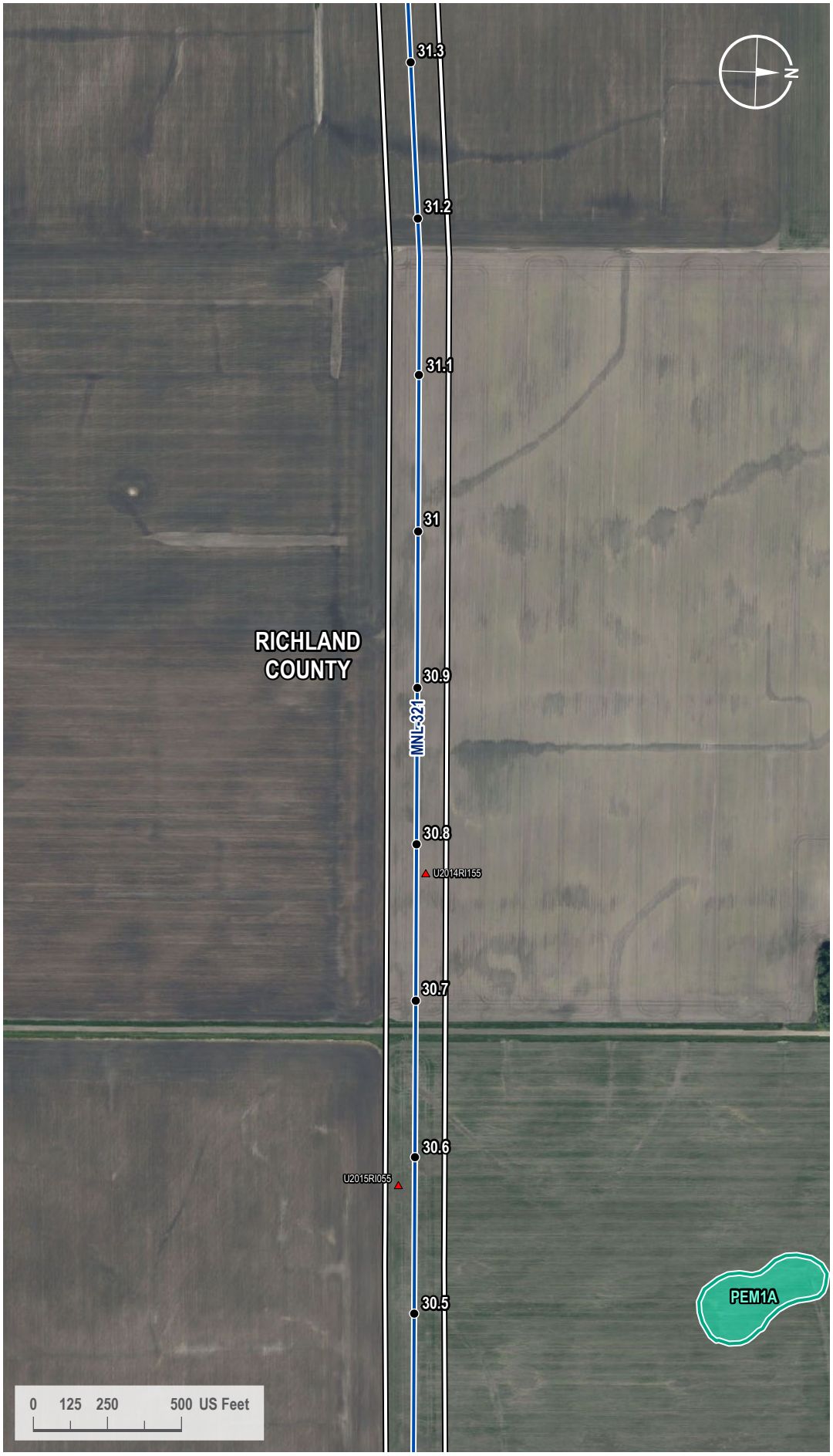

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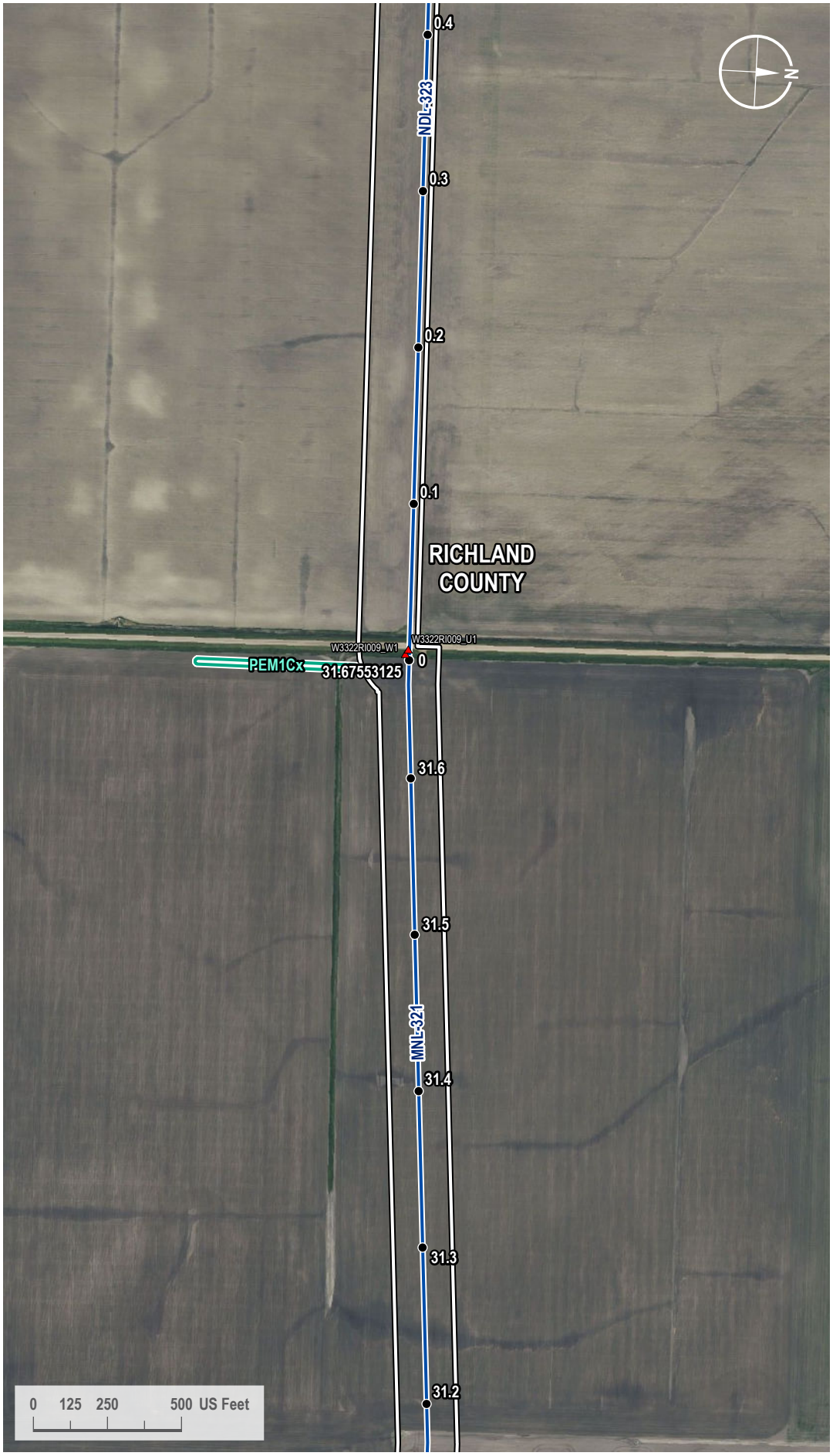

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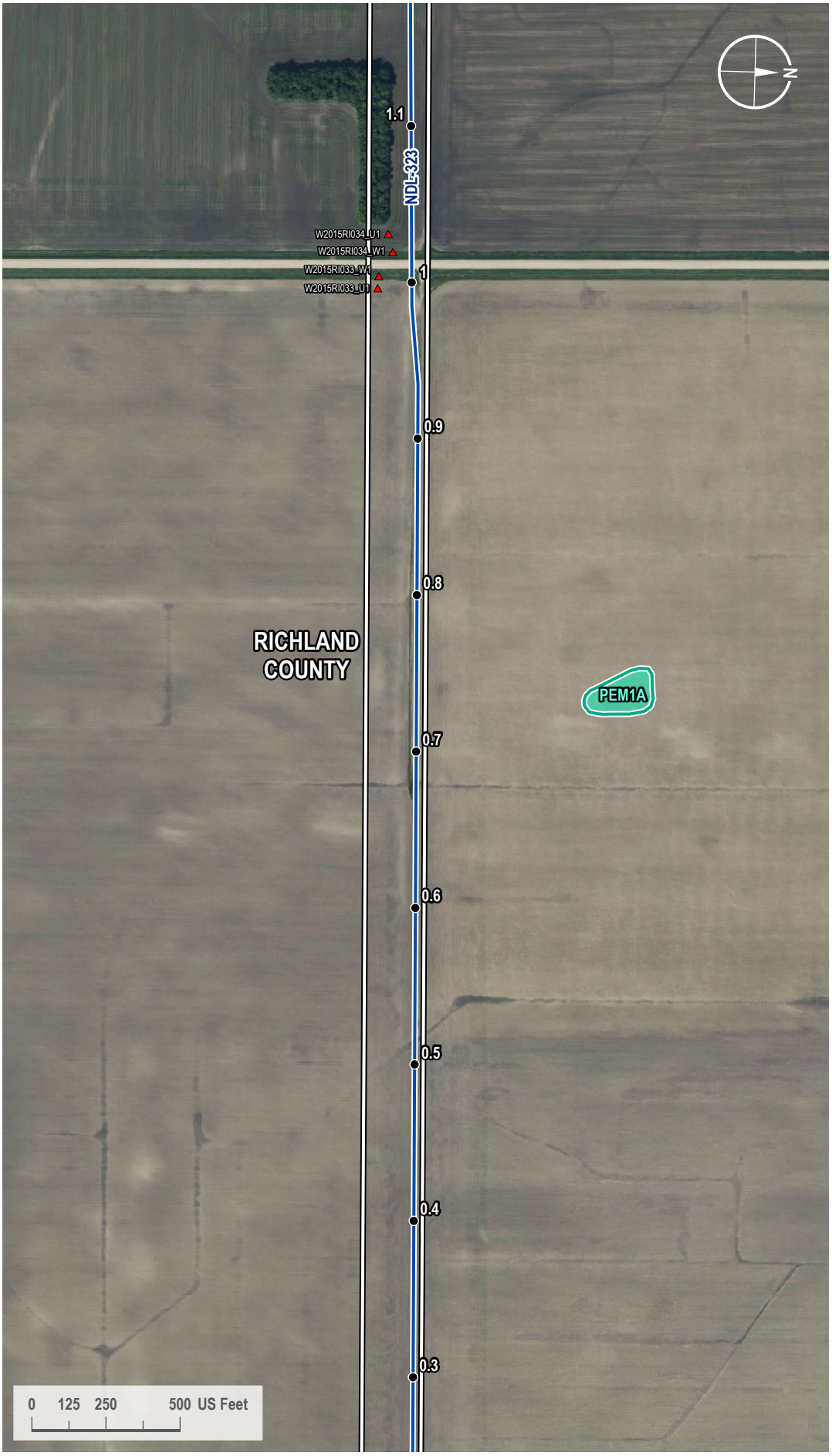

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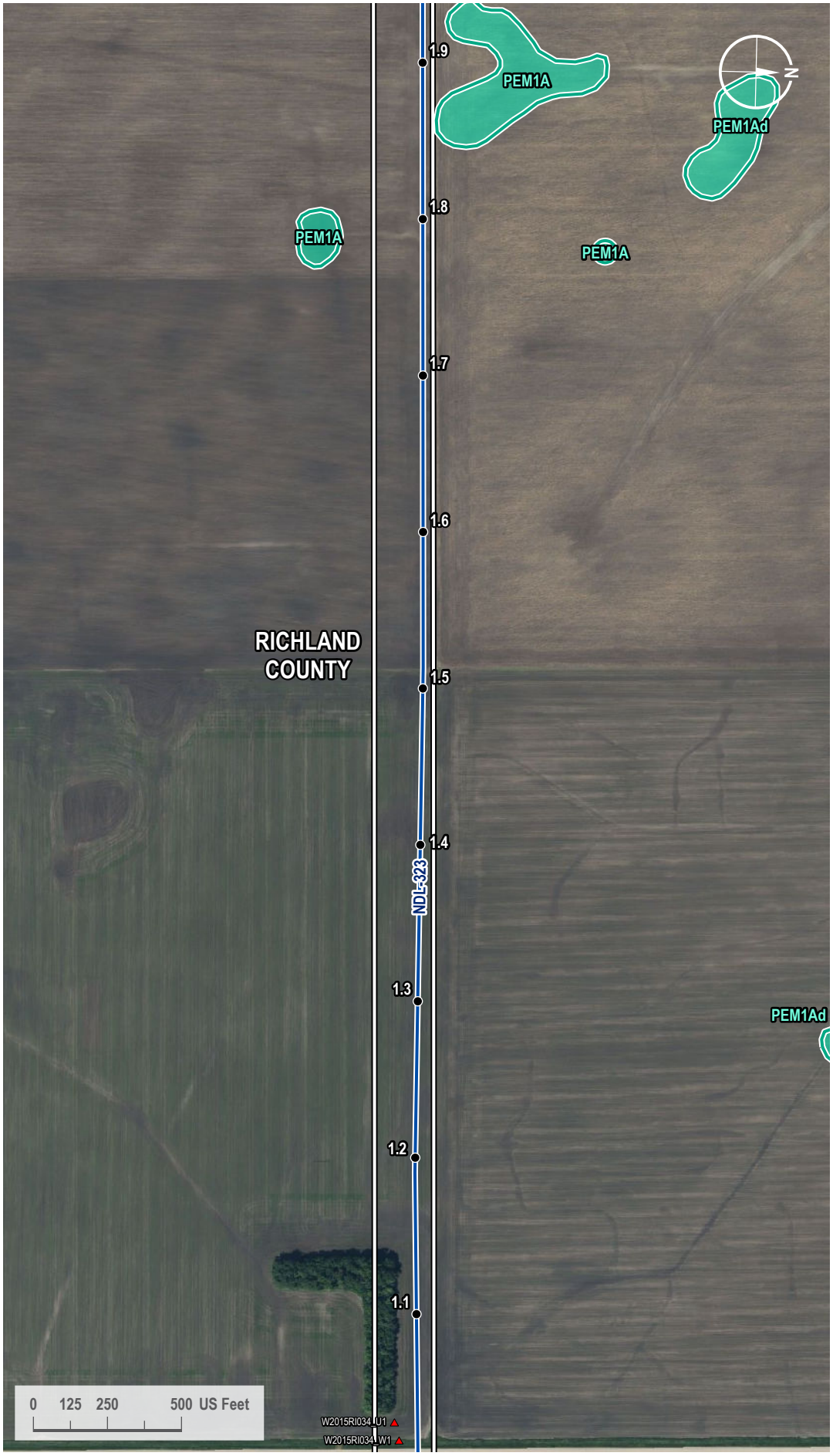

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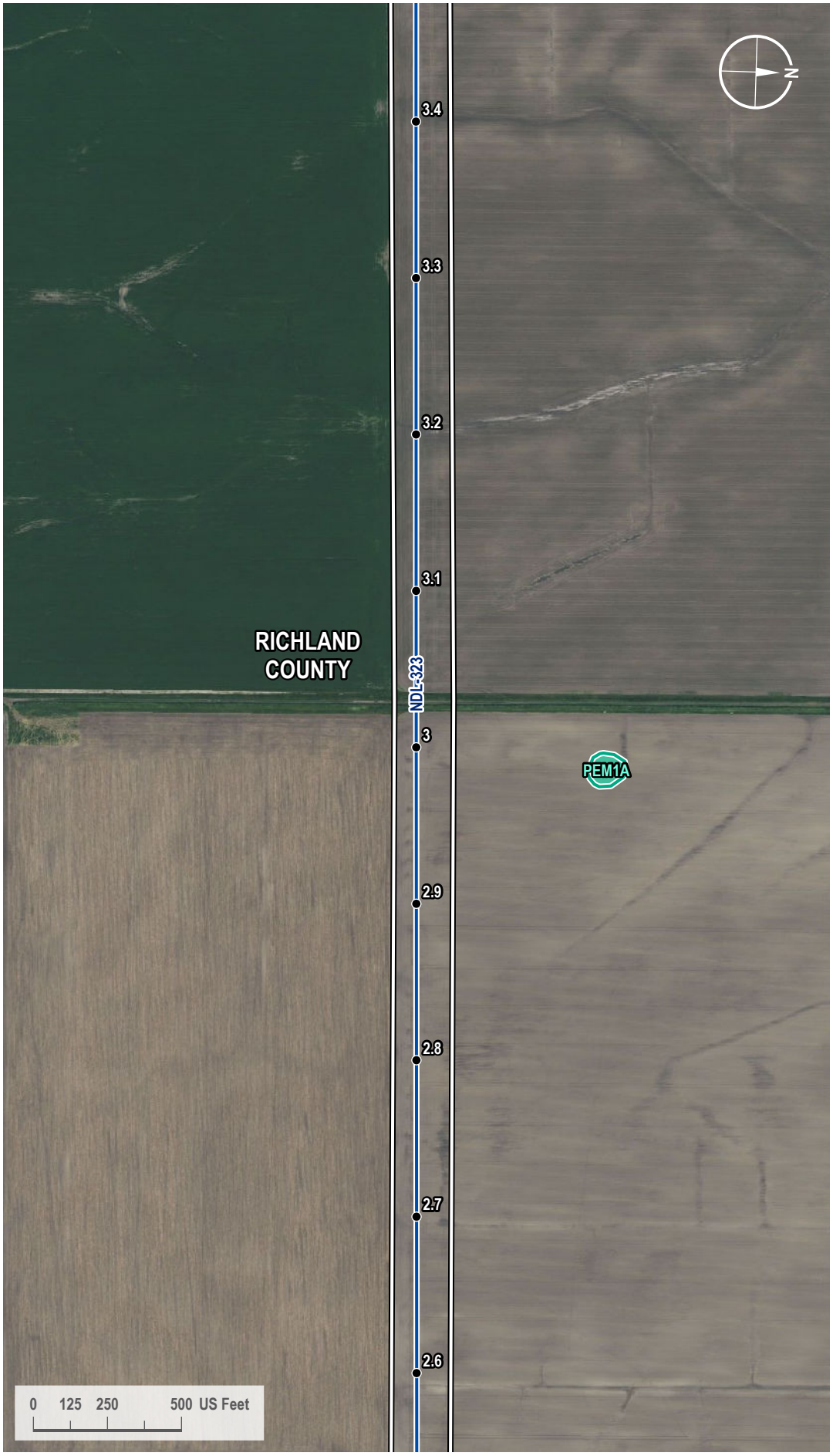

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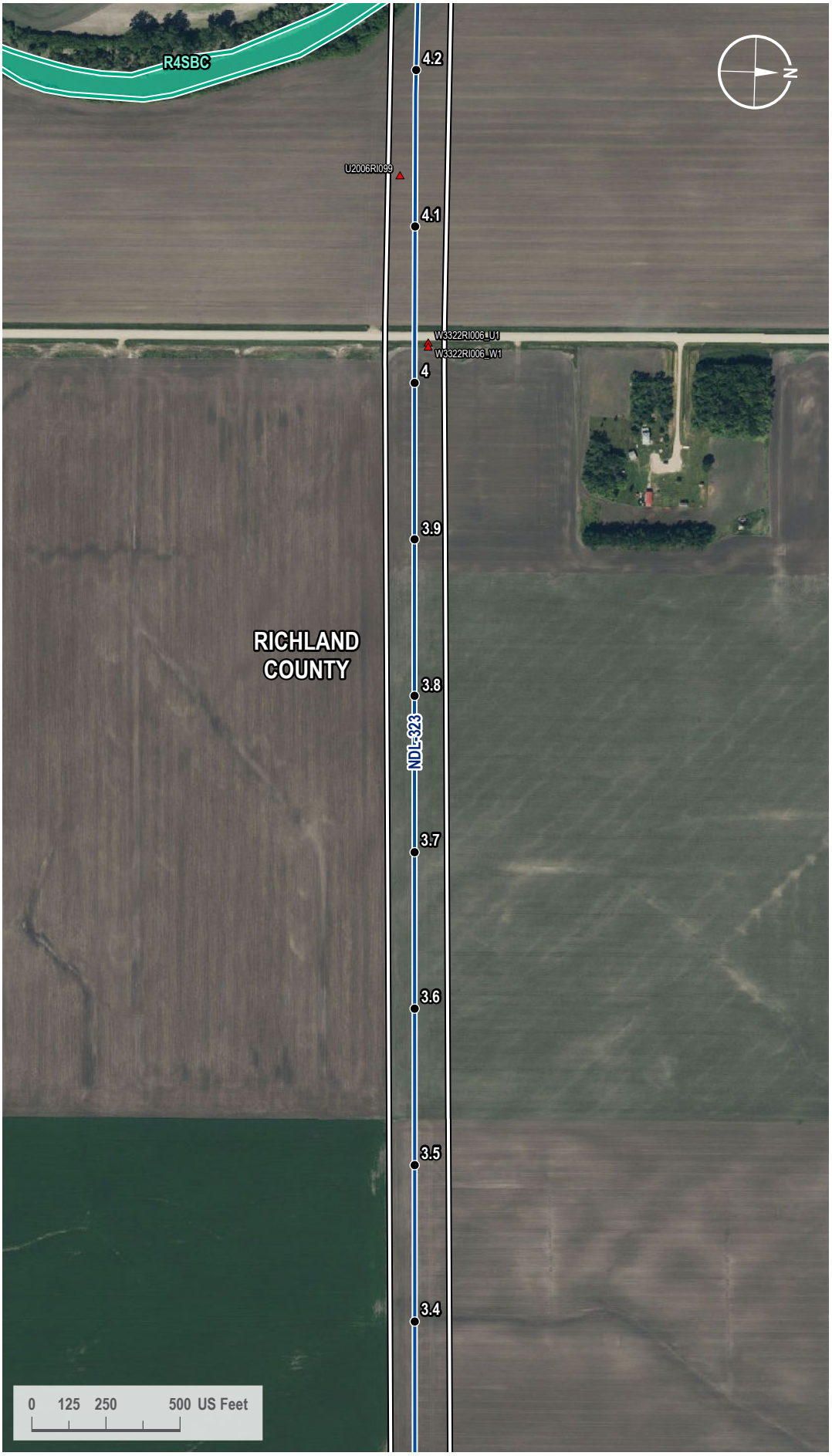

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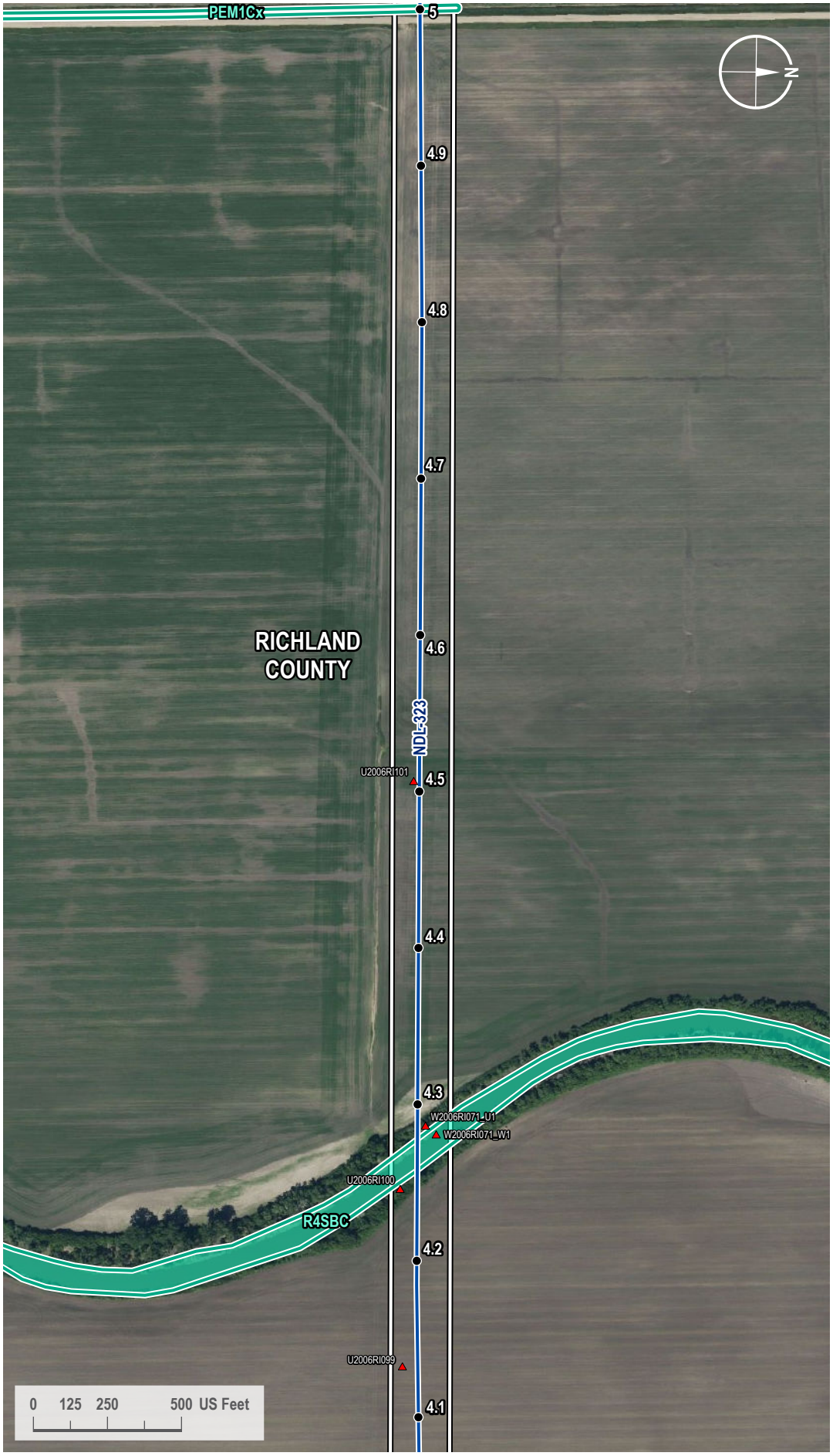

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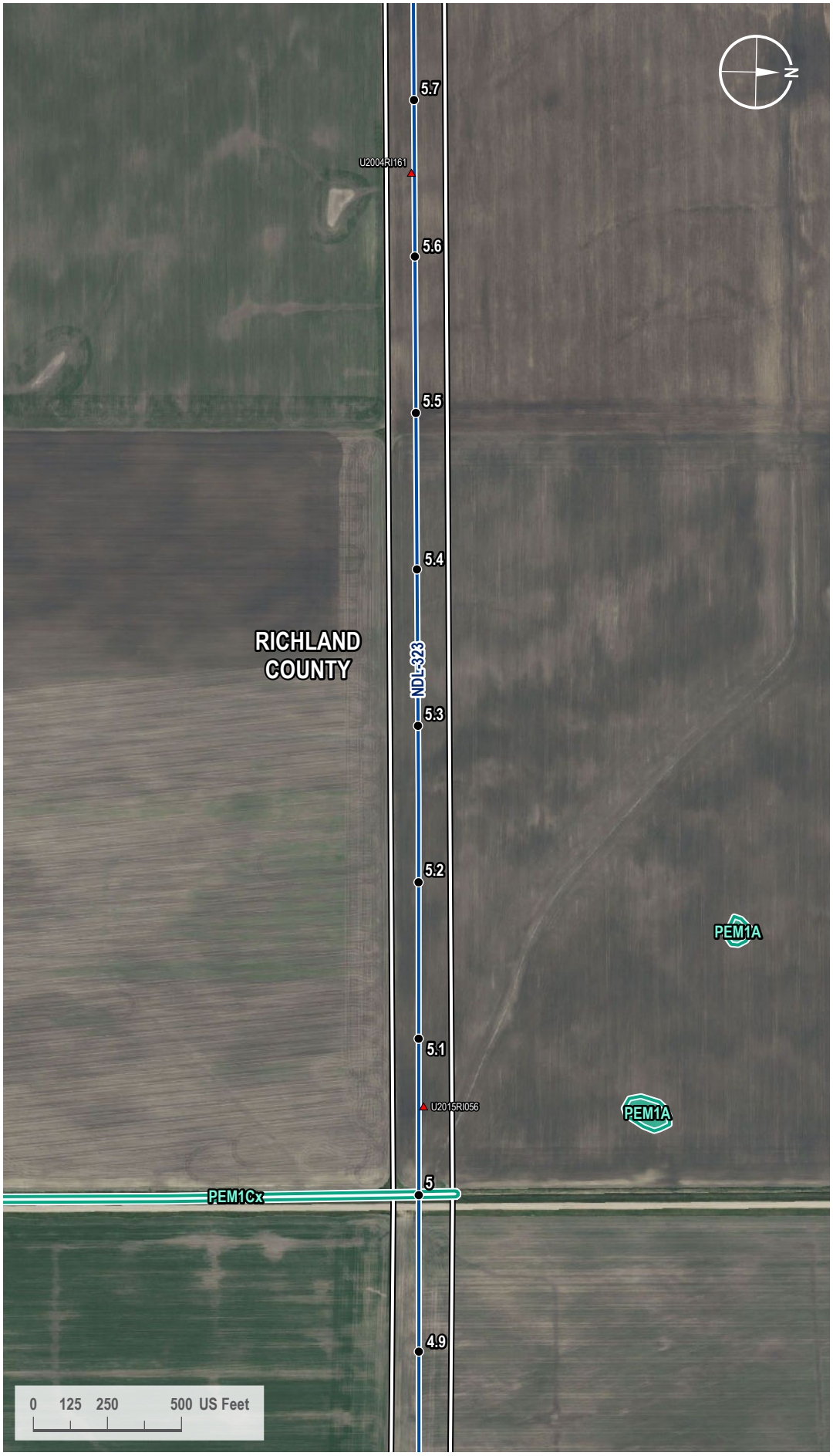

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83 83 of 433	1001-06-027 Revision 0

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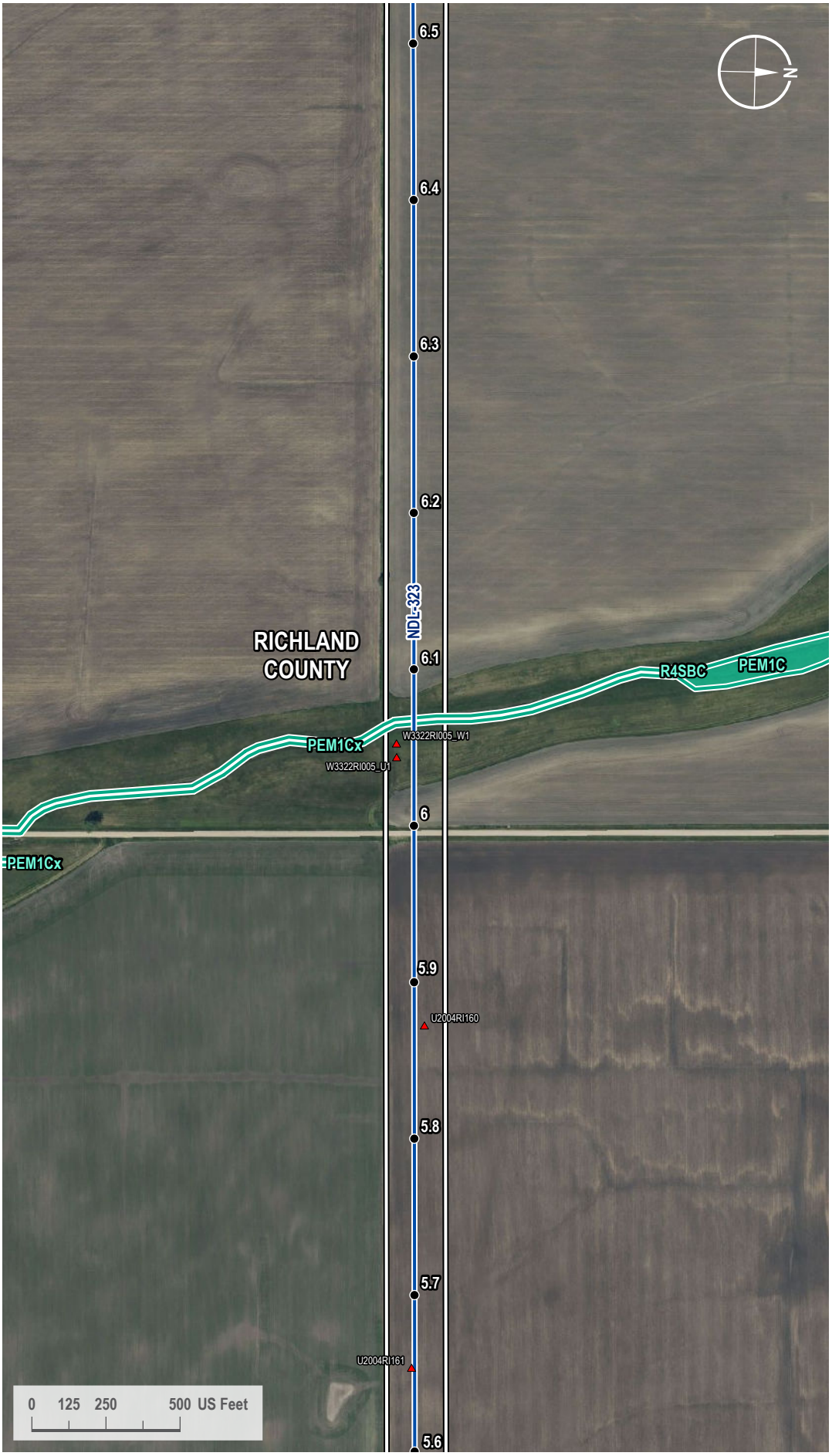

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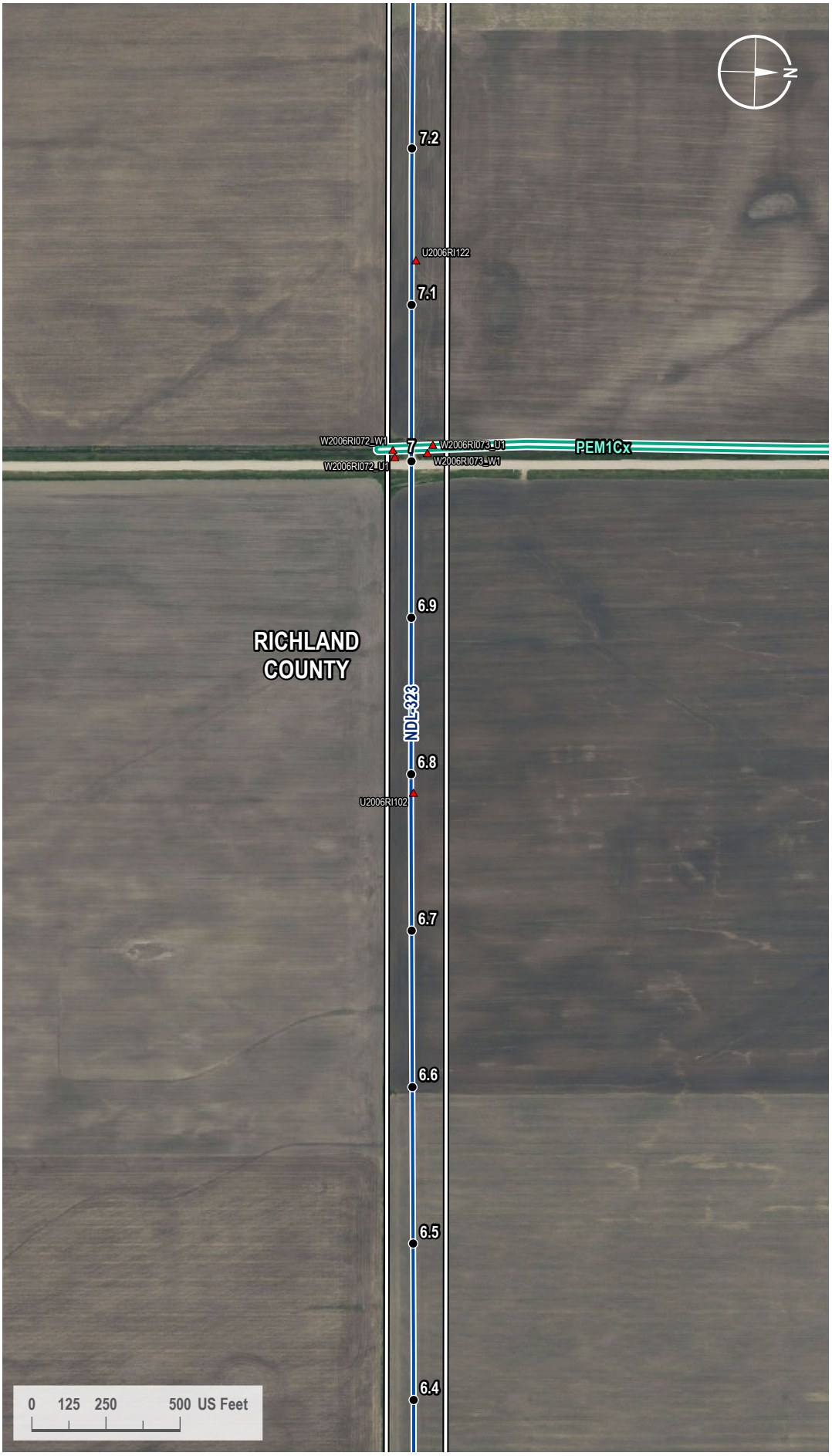

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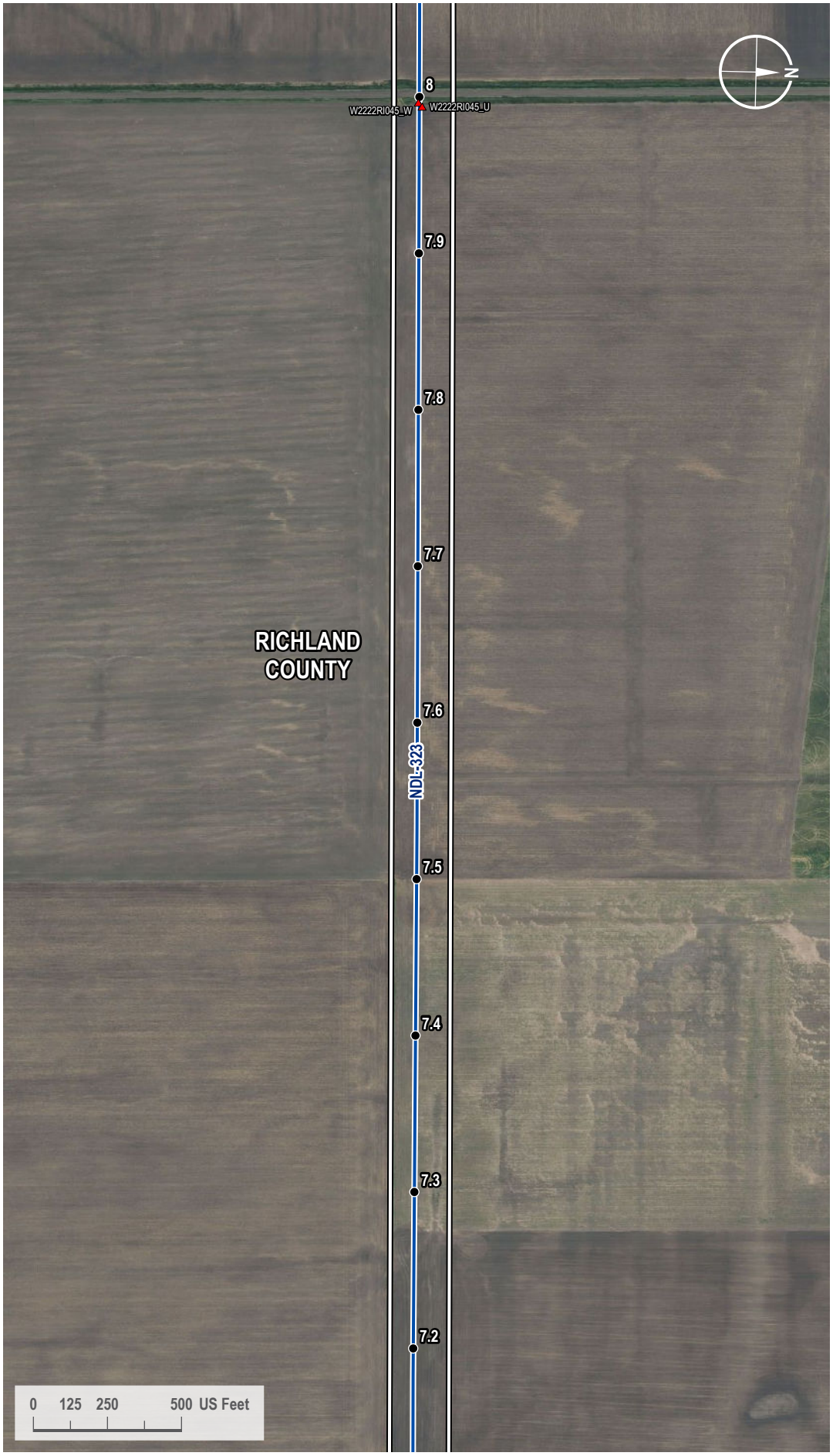

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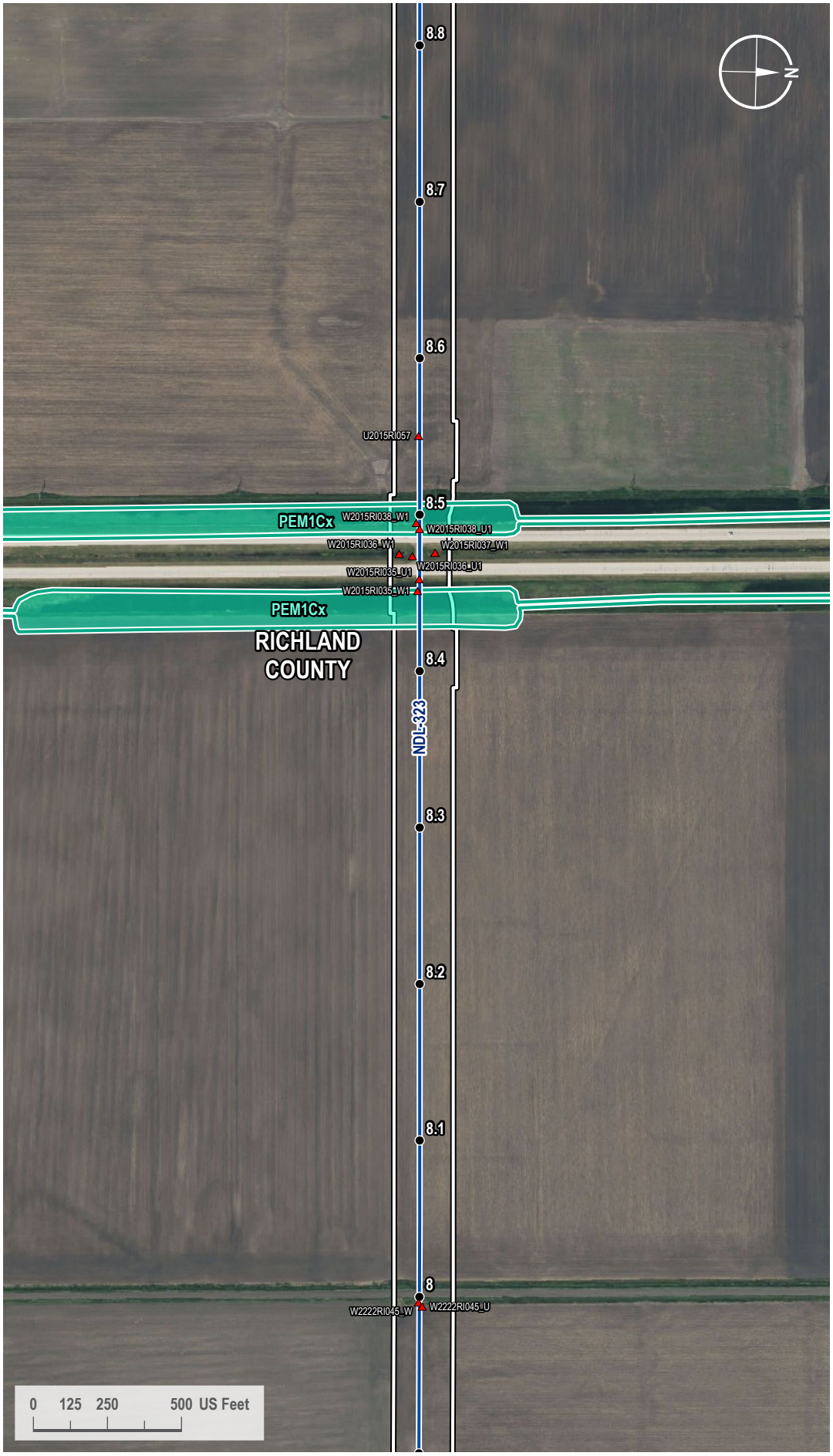

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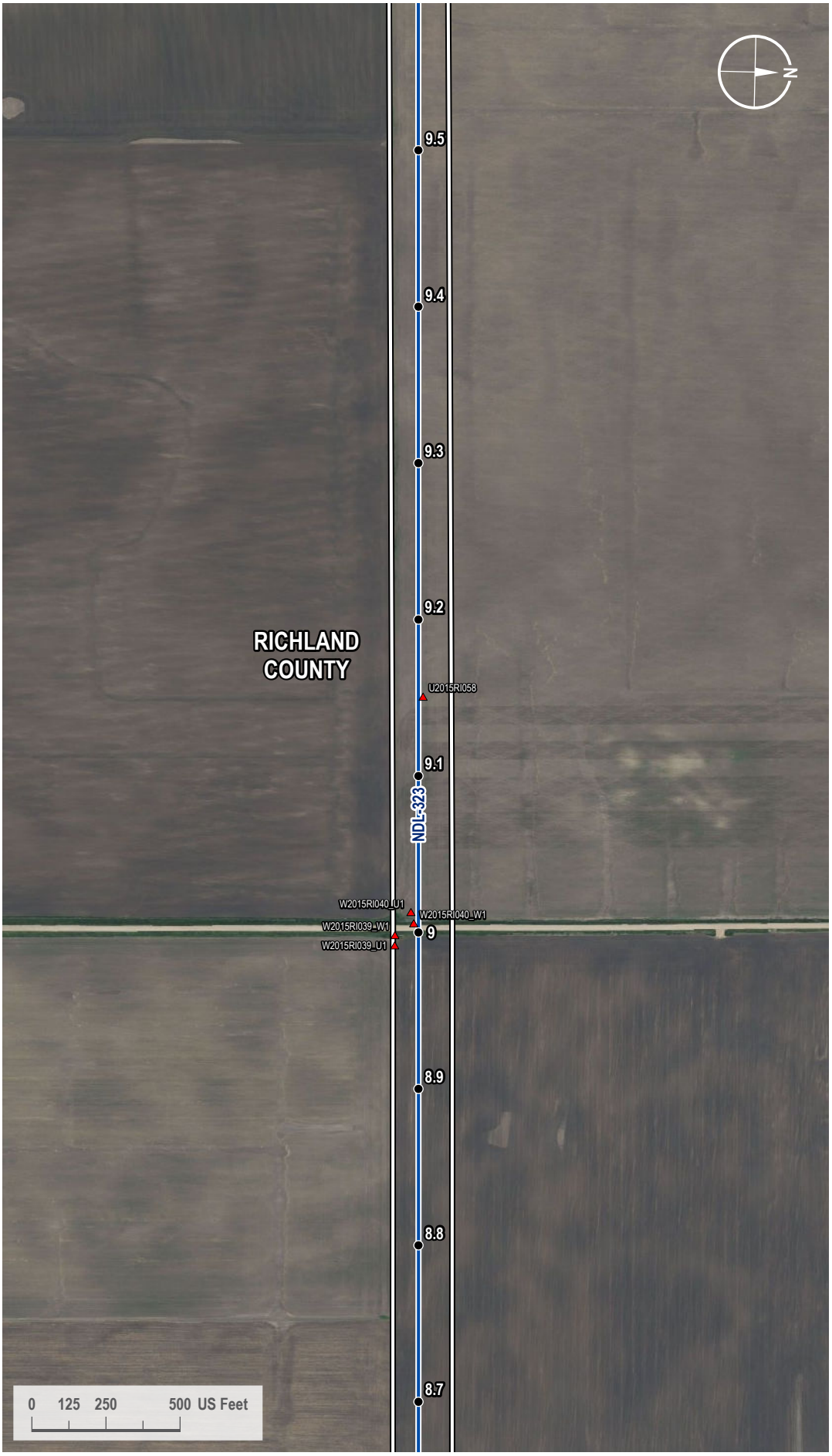

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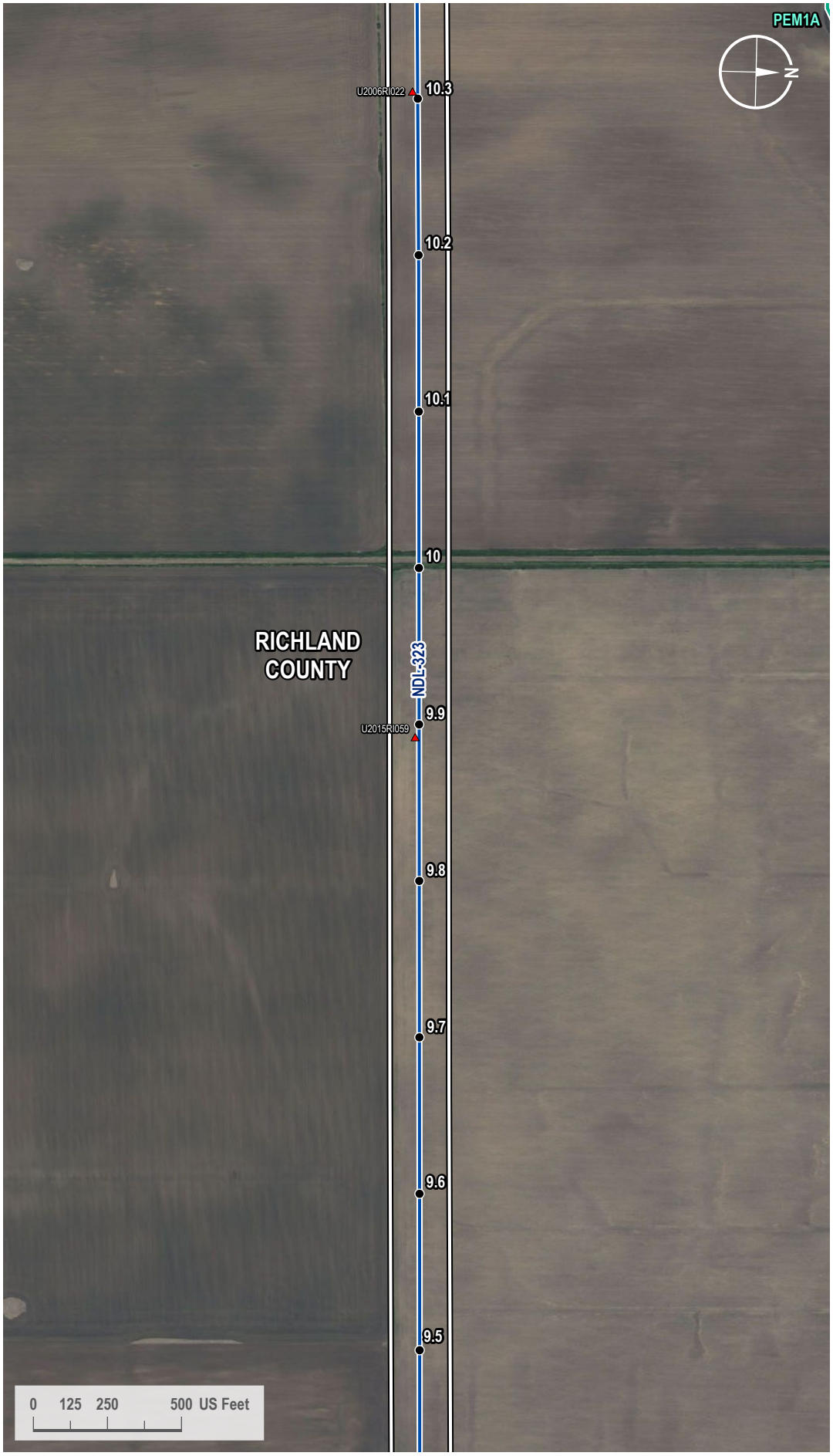

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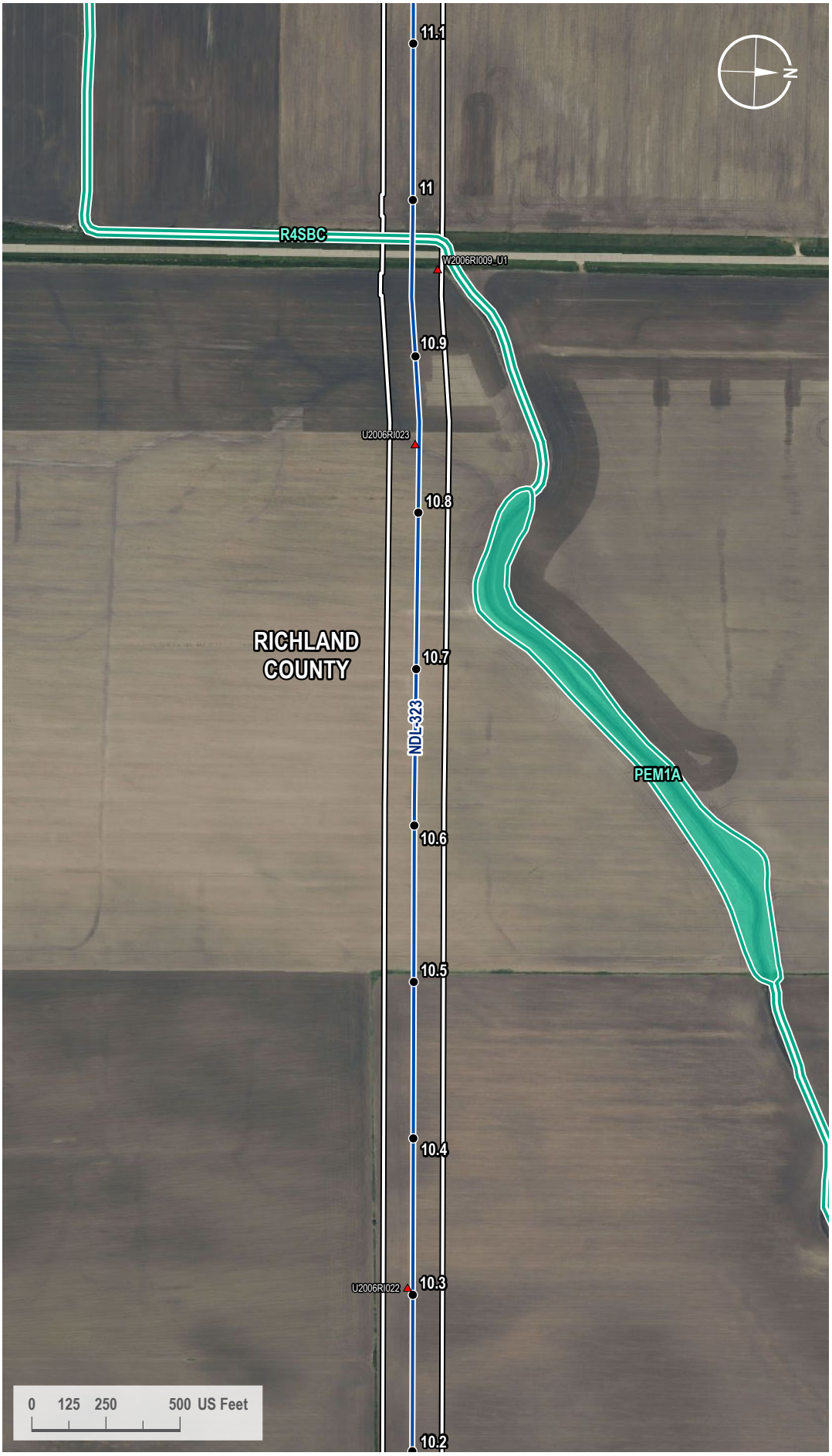

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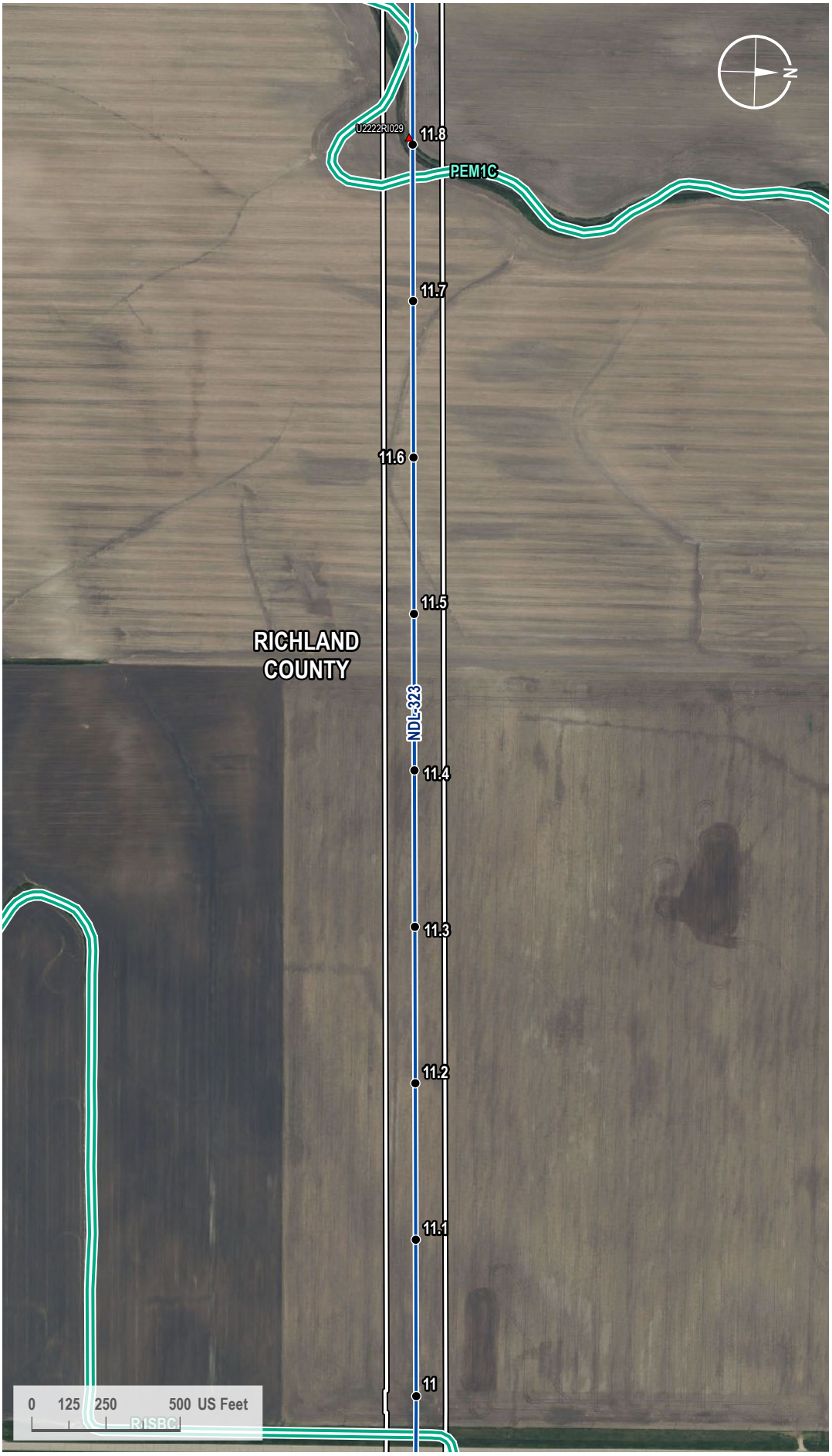

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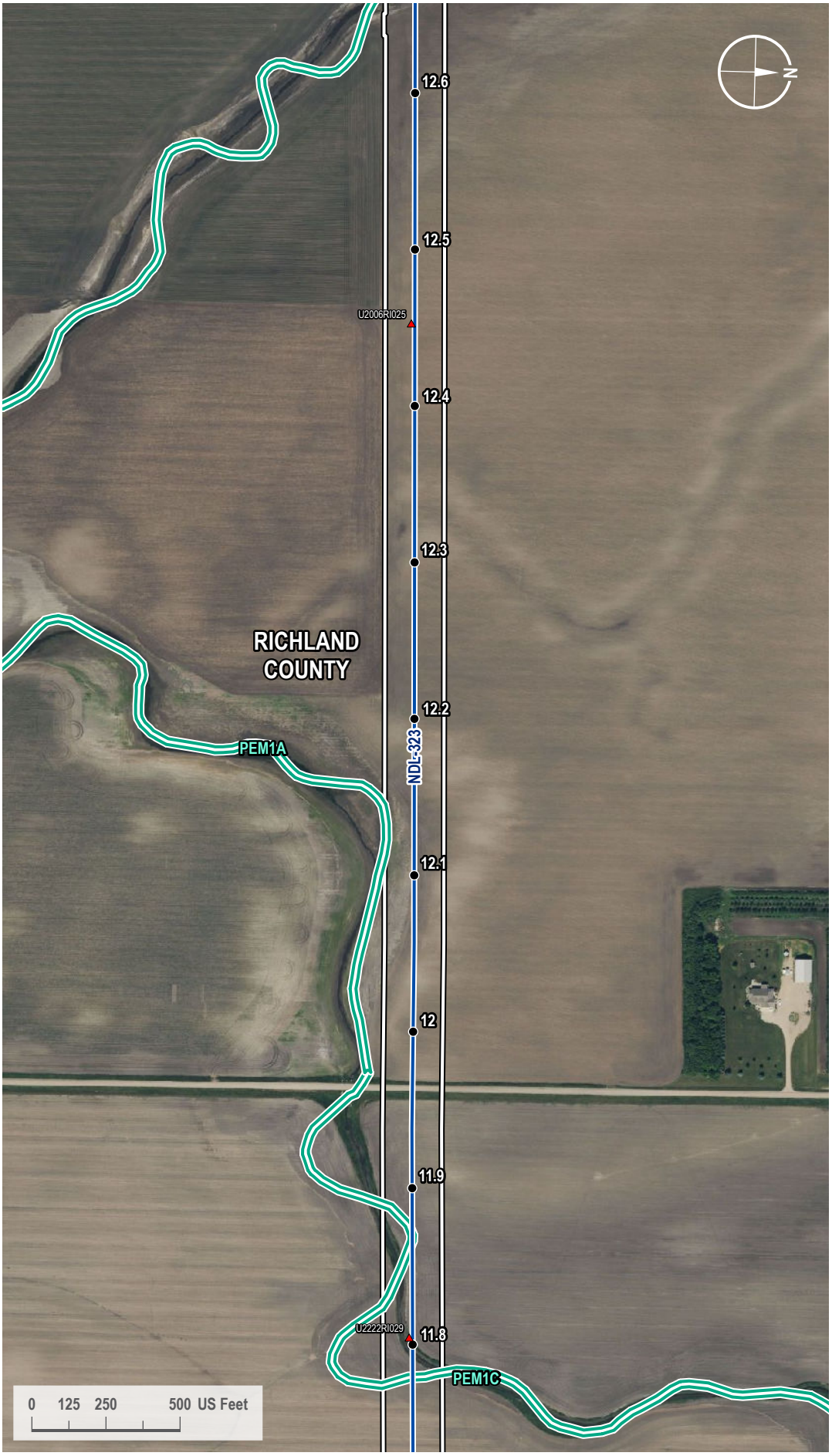

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Figure Number:
Appendix A-4

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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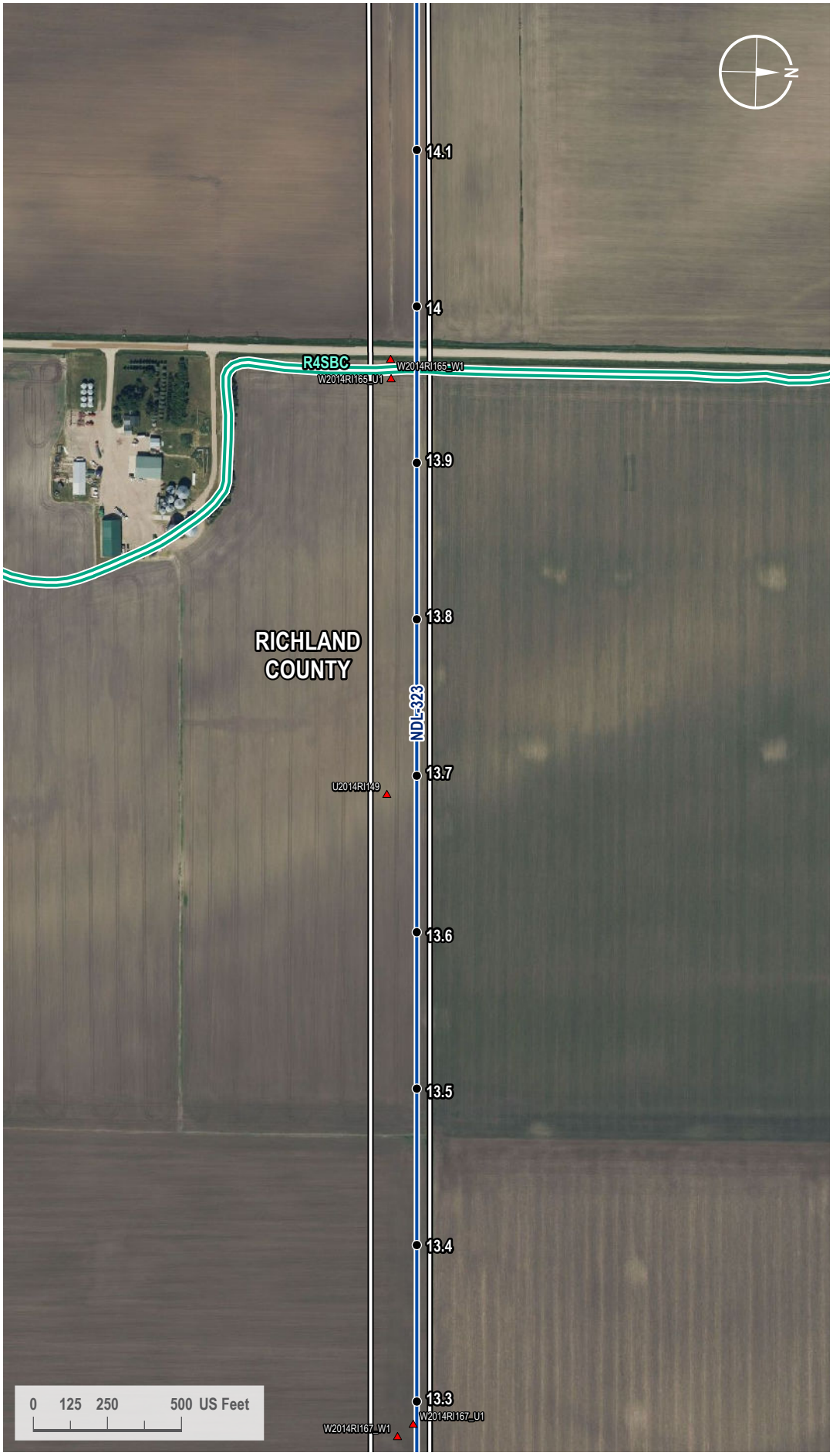

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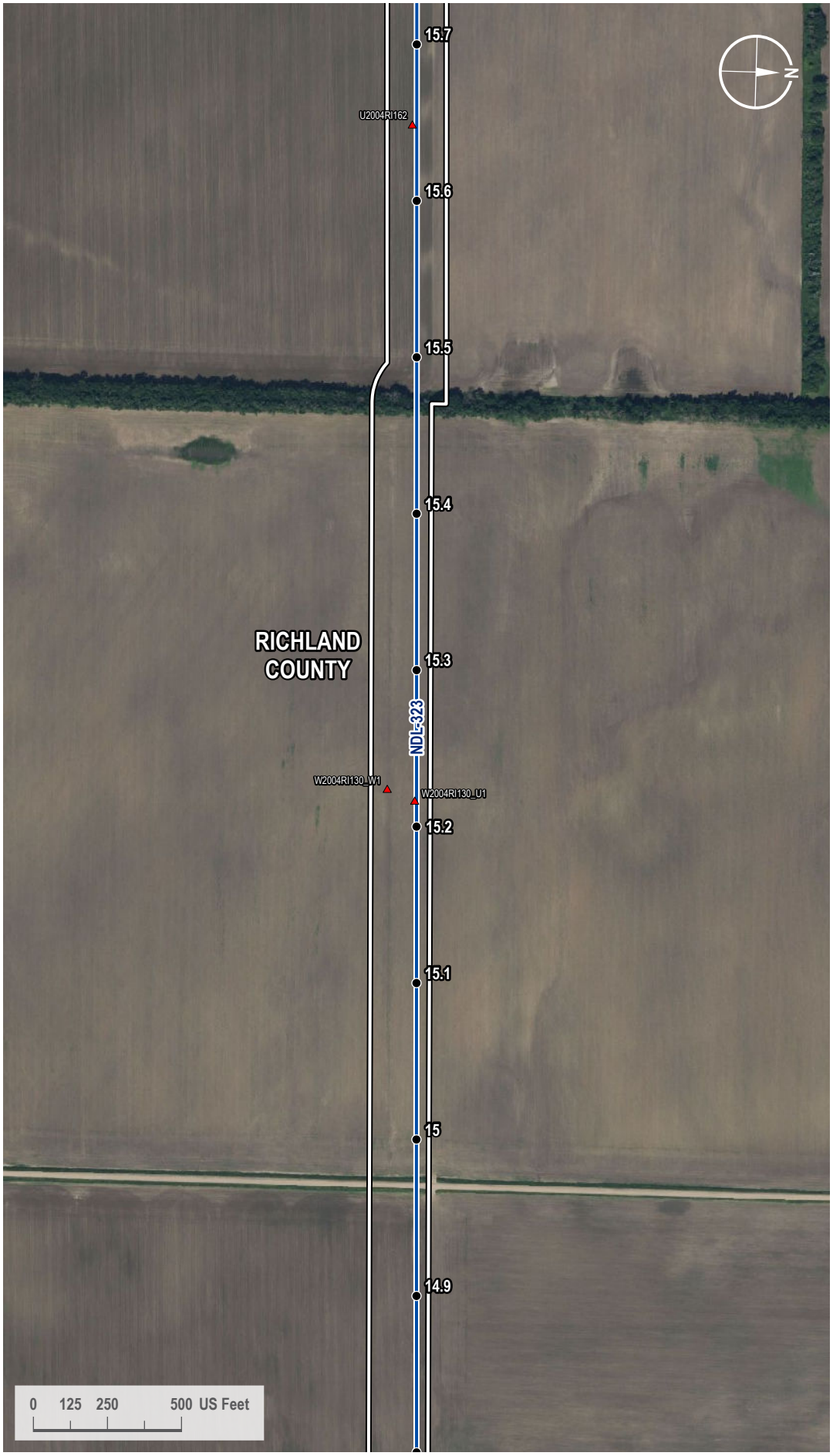

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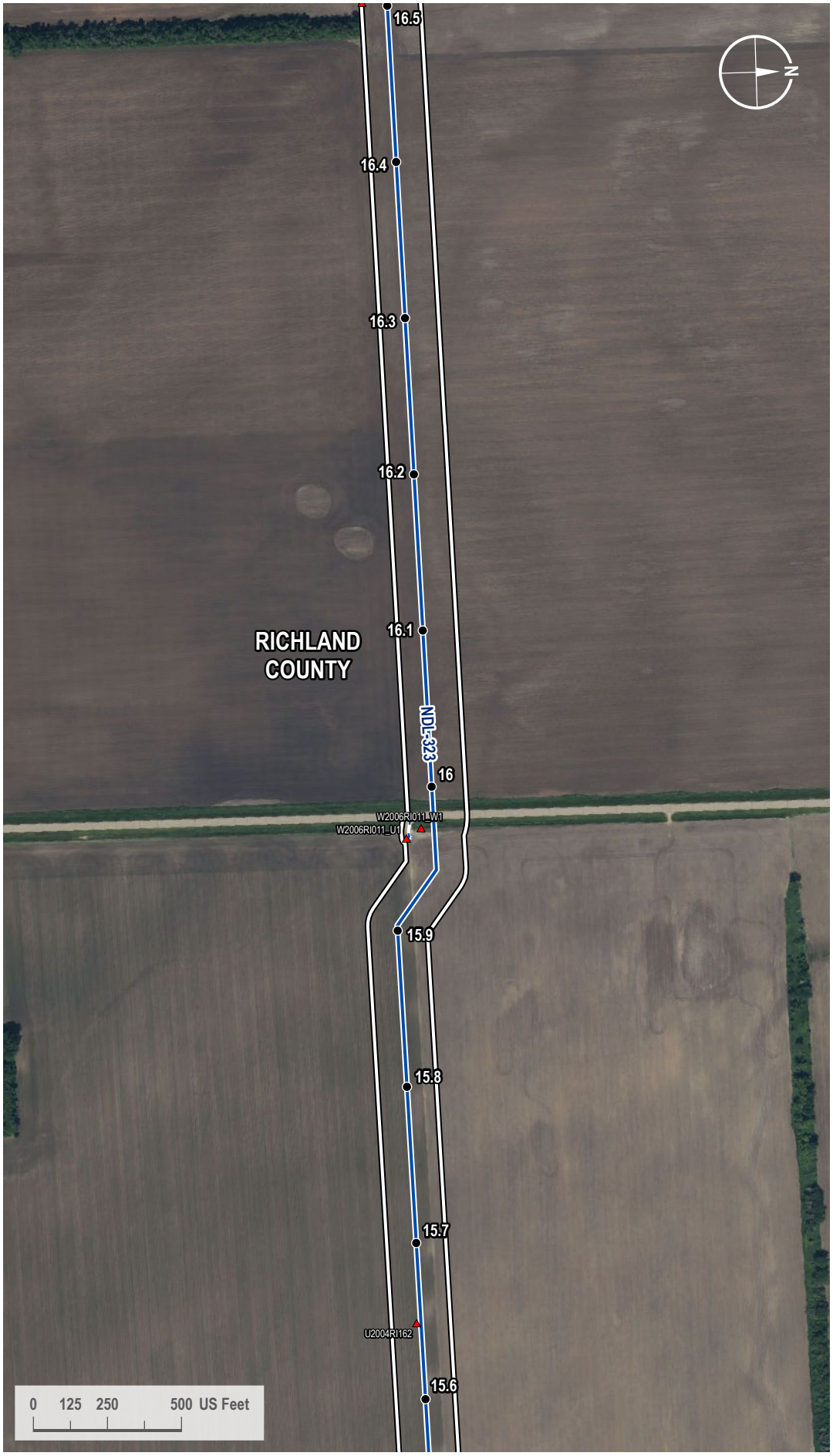

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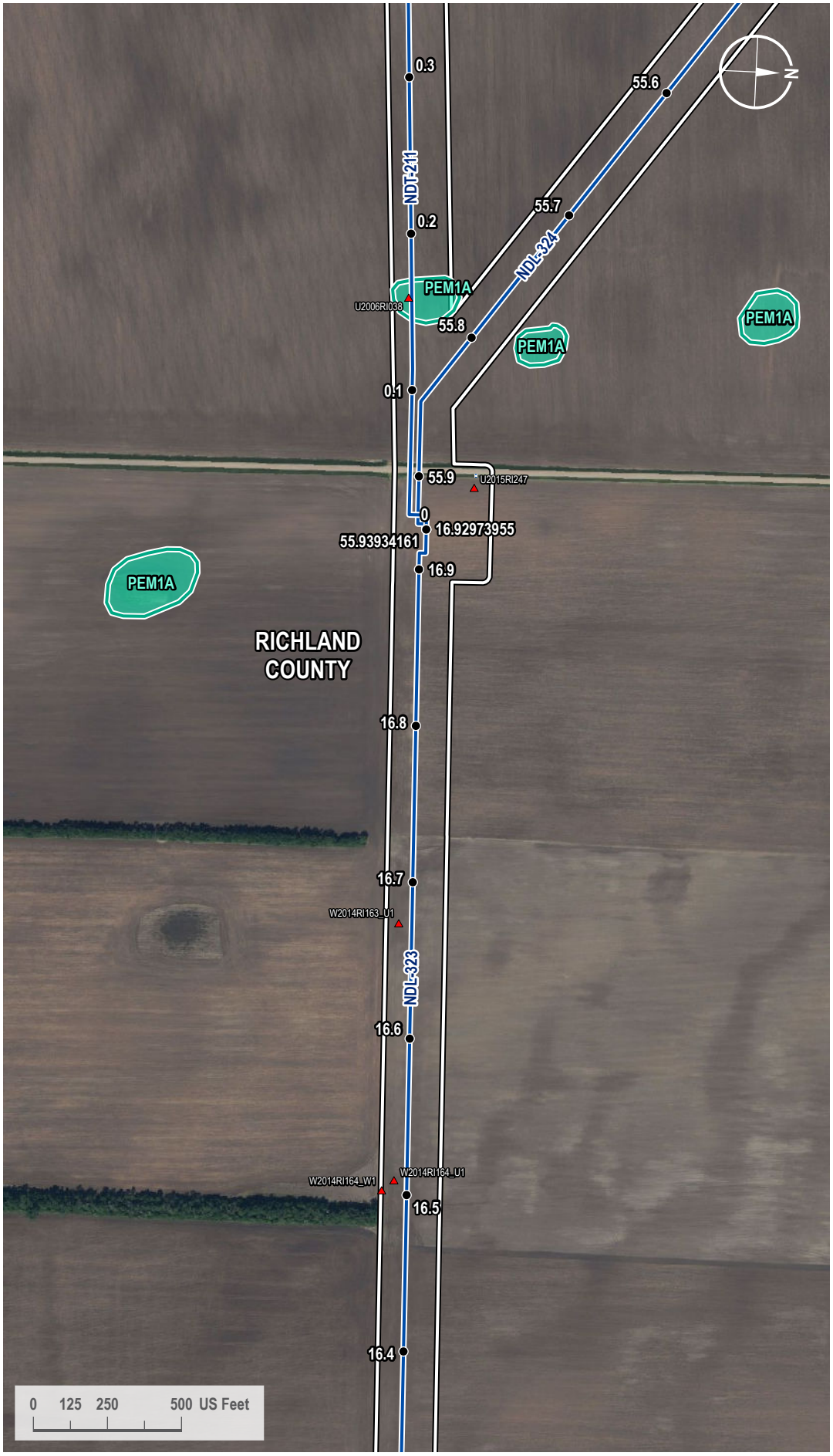

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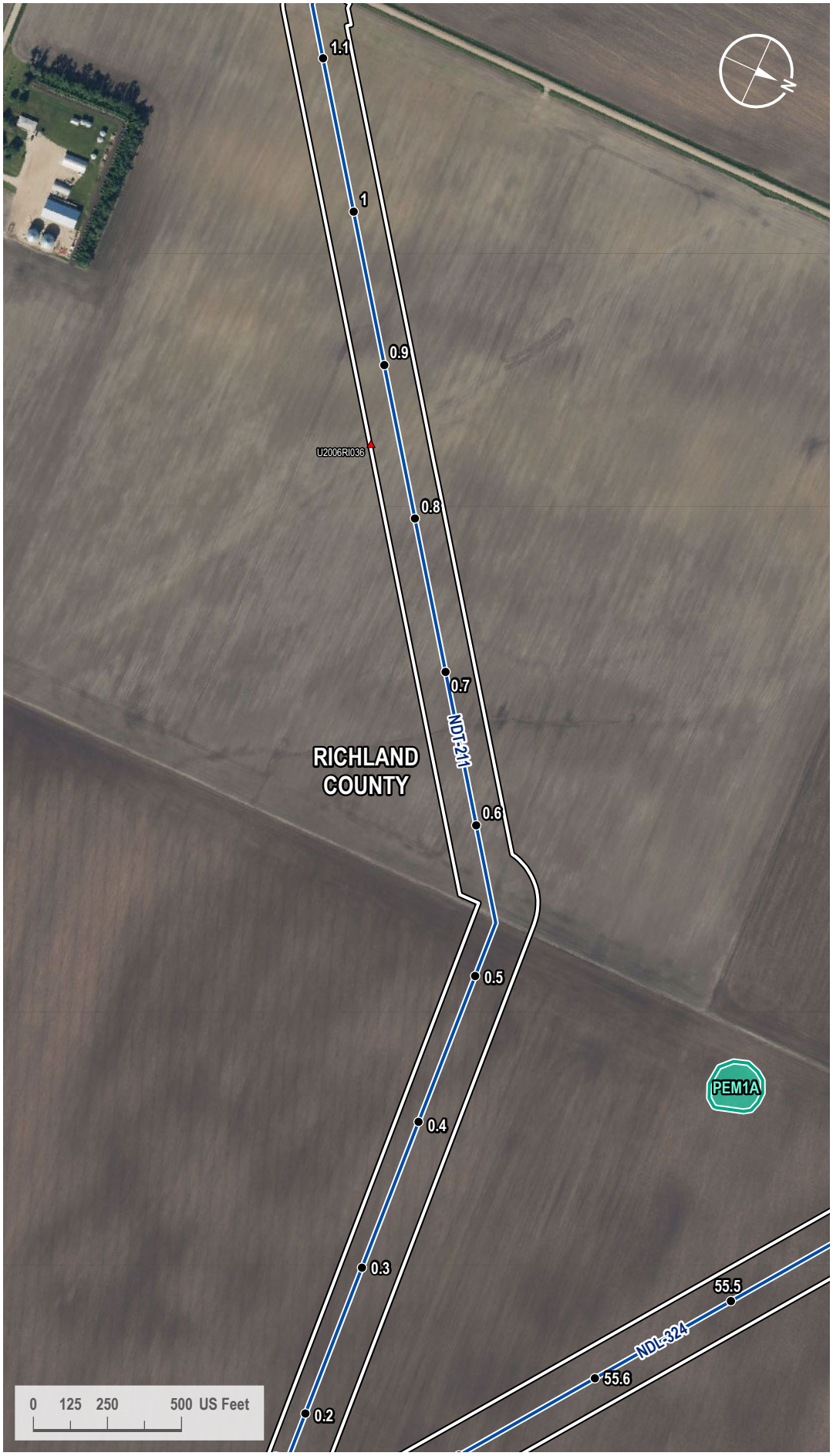

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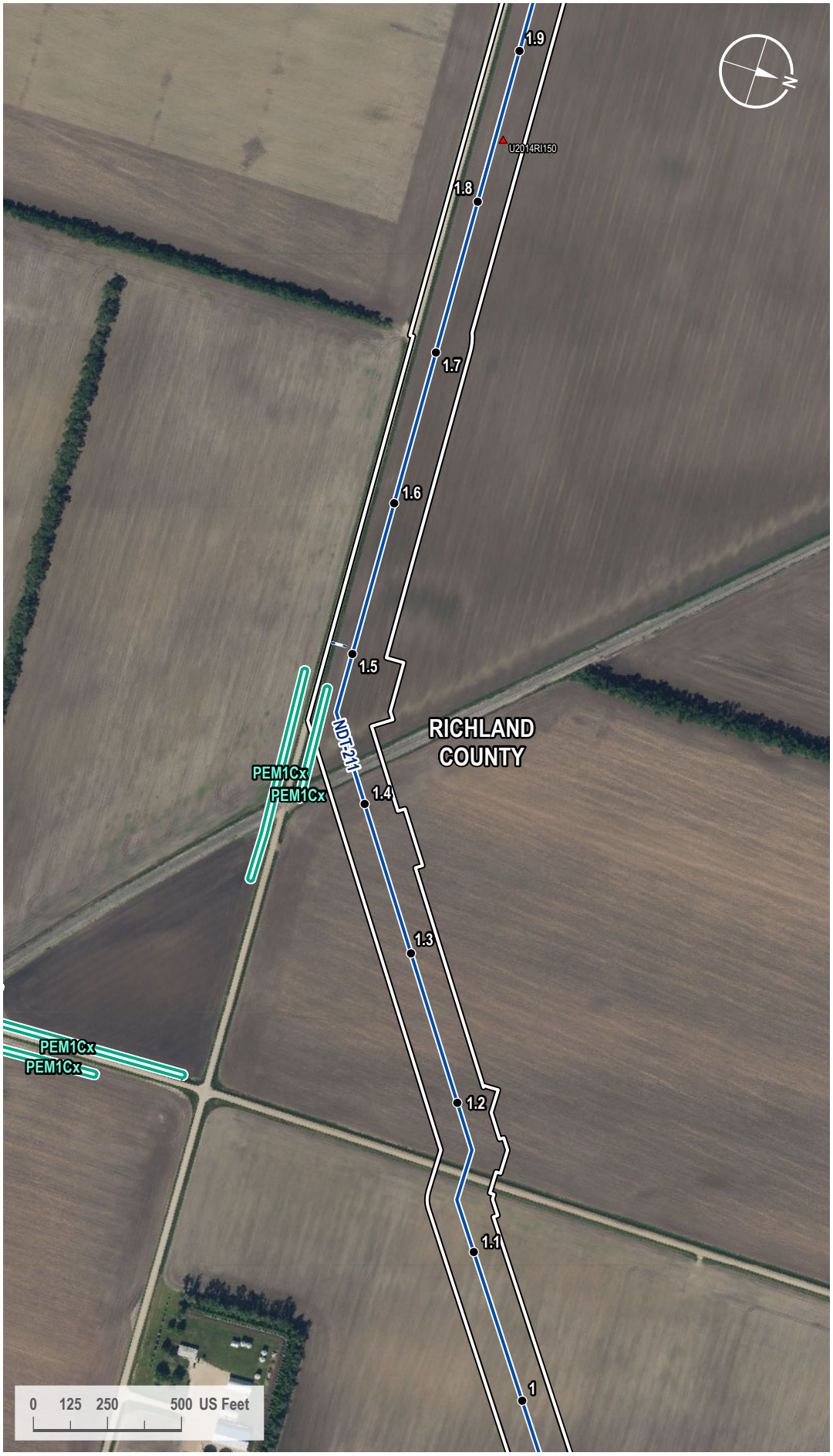

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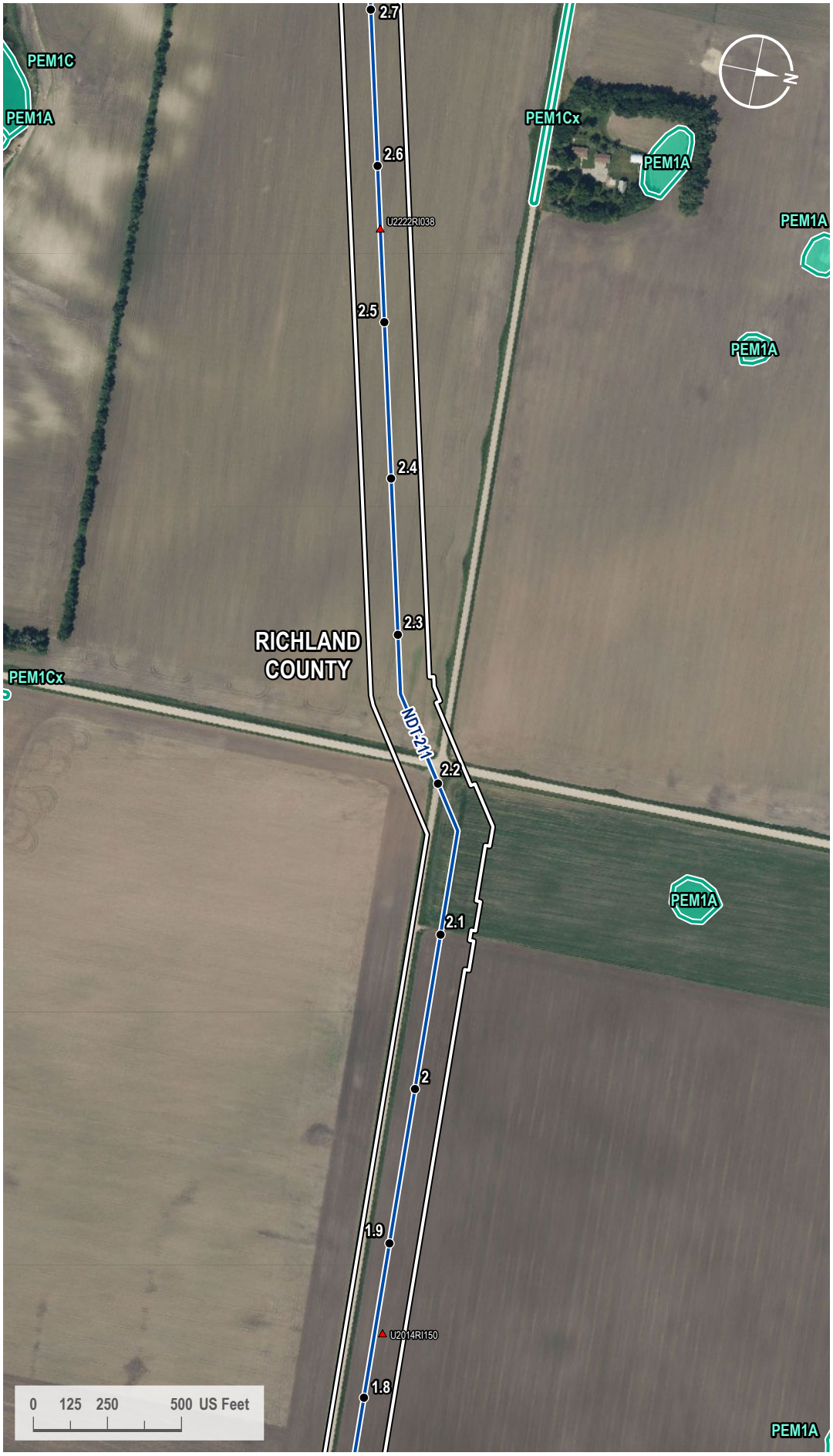

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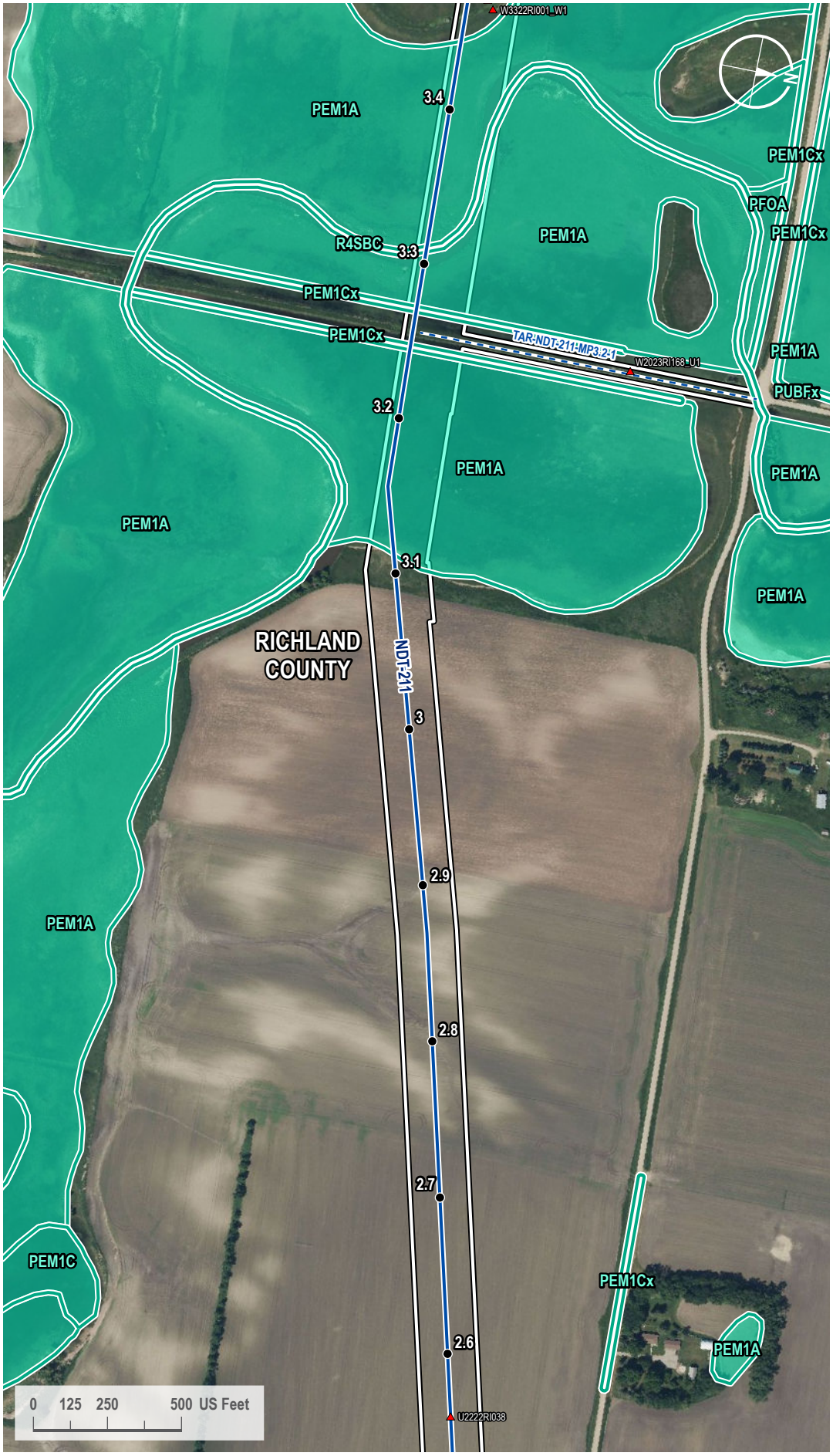

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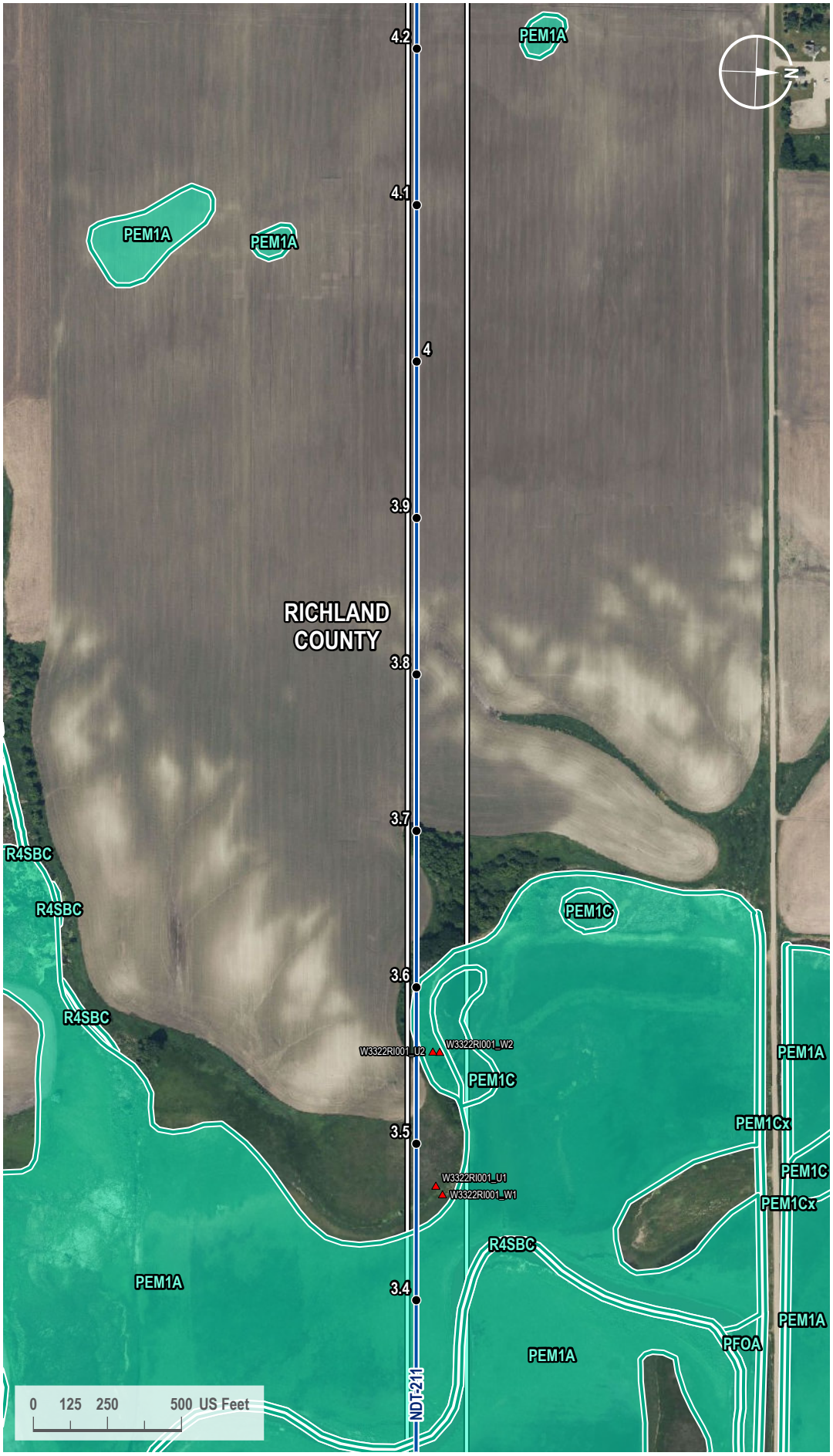

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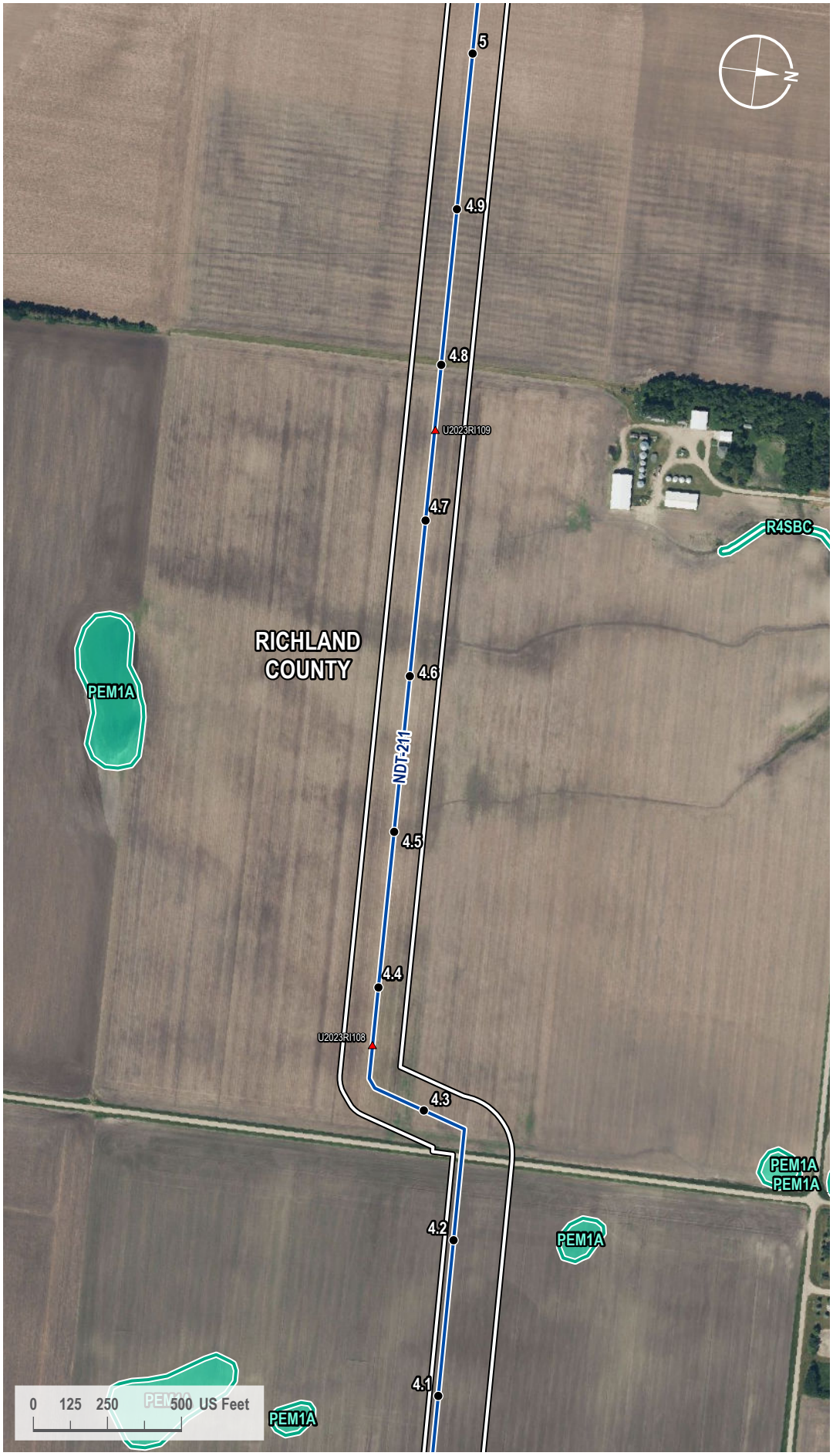

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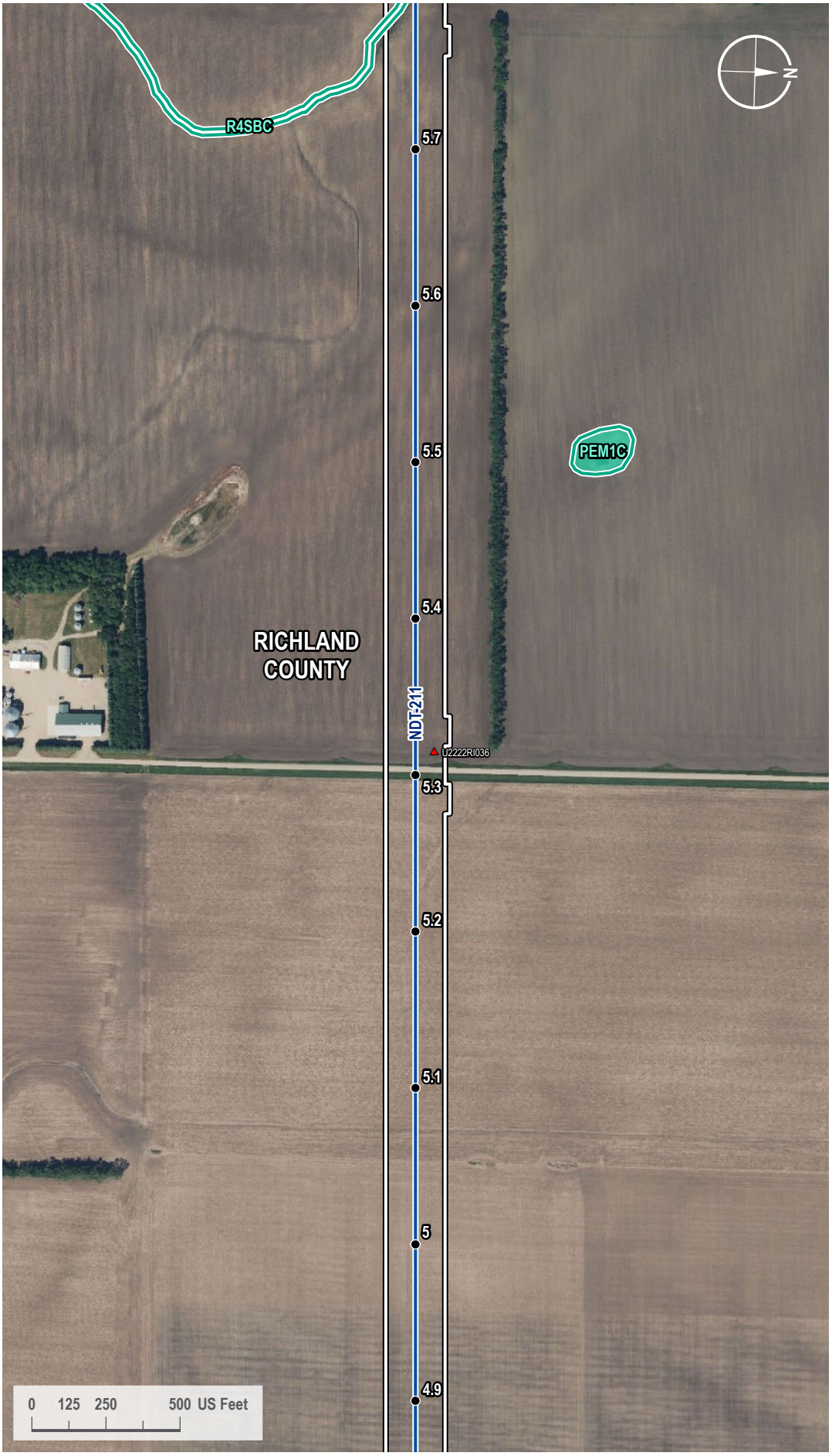

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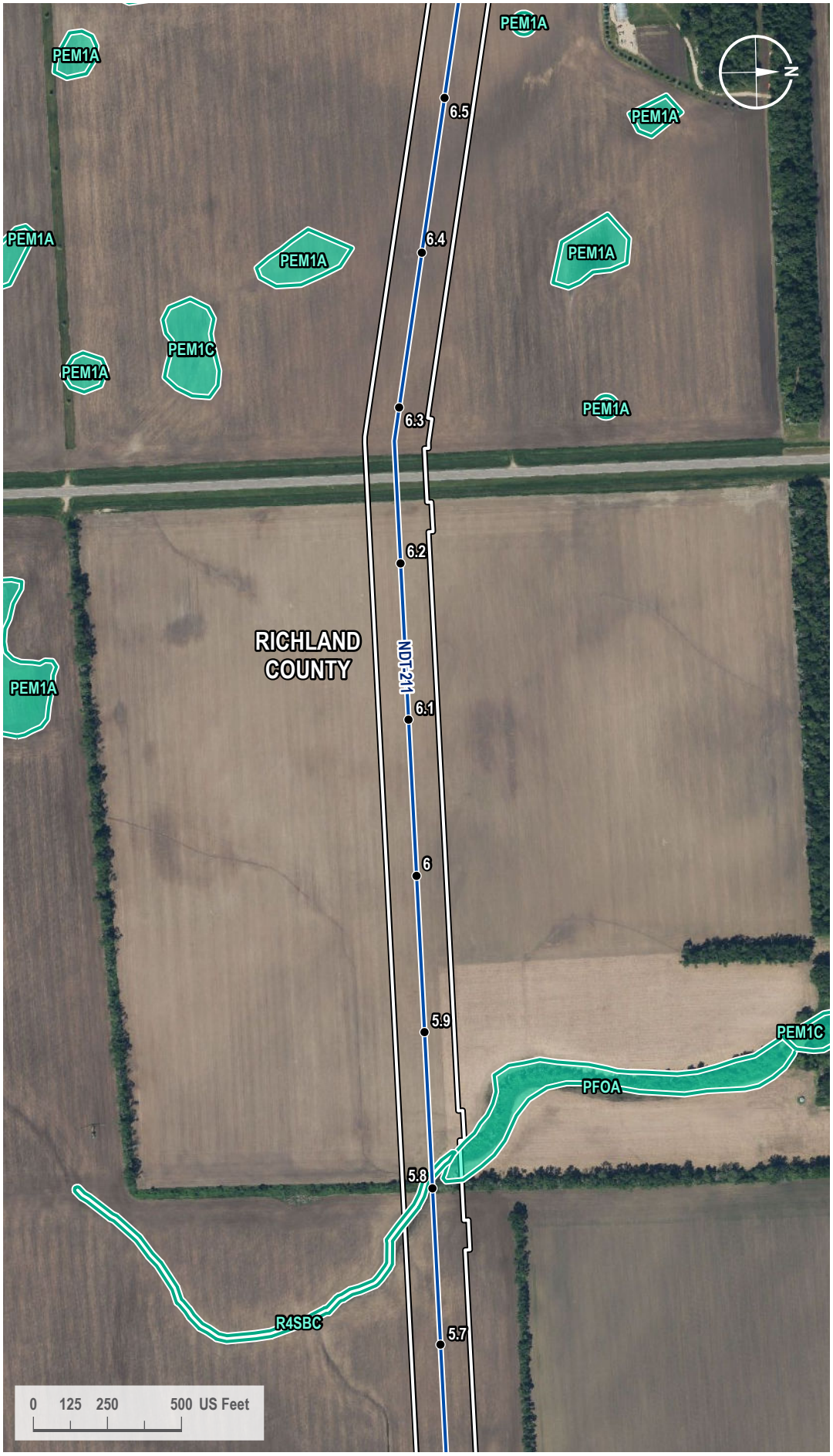

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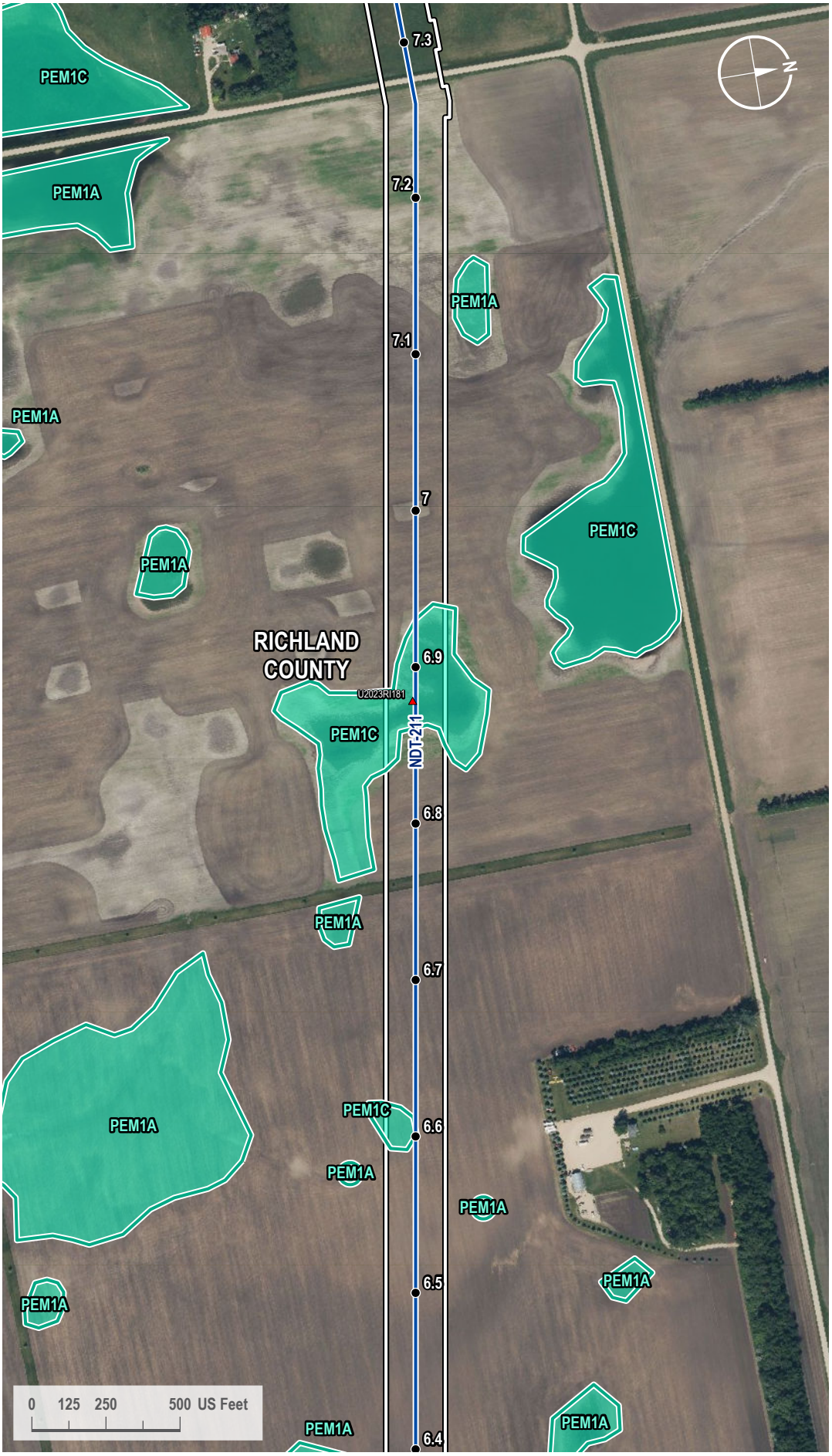

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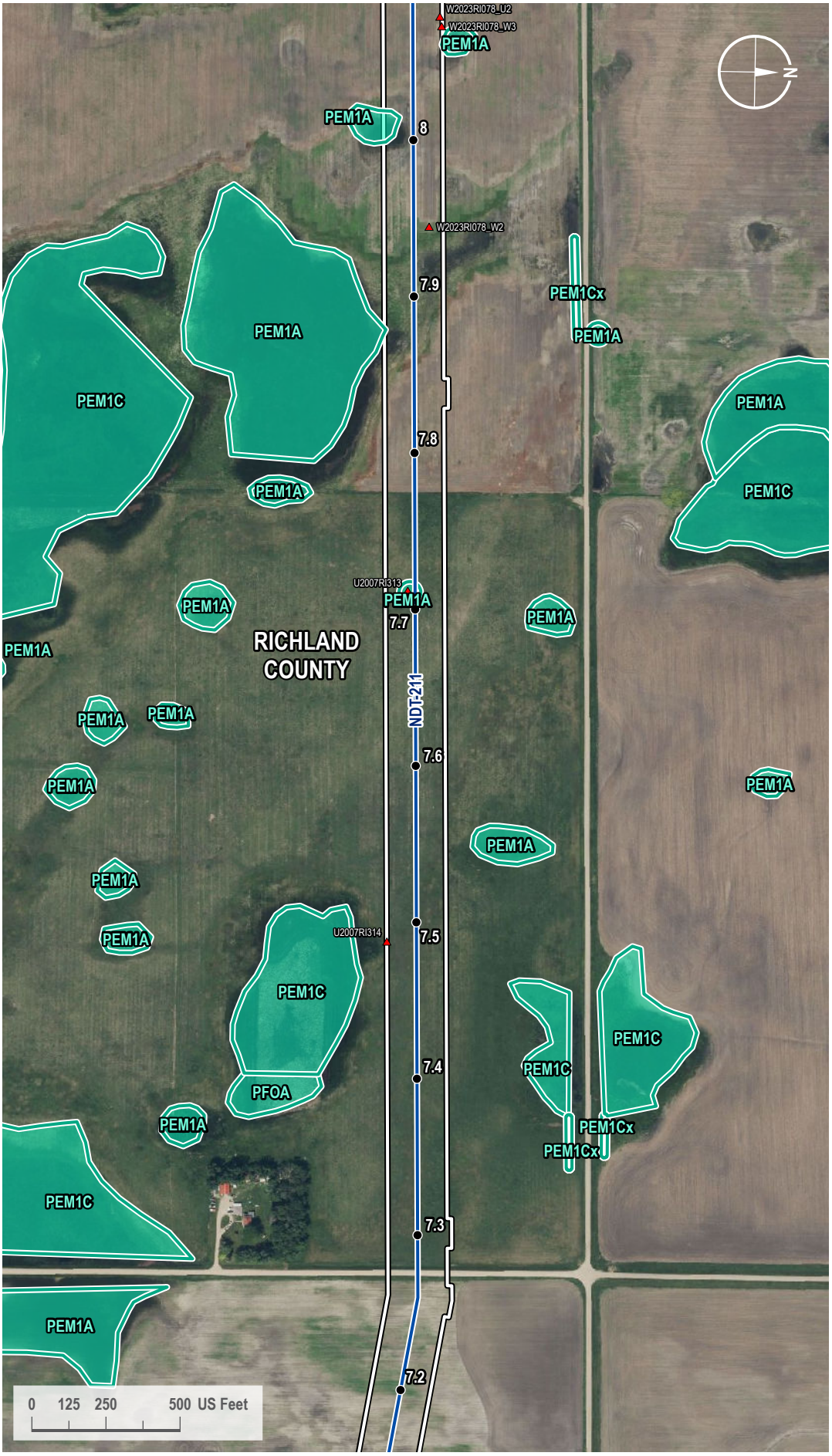

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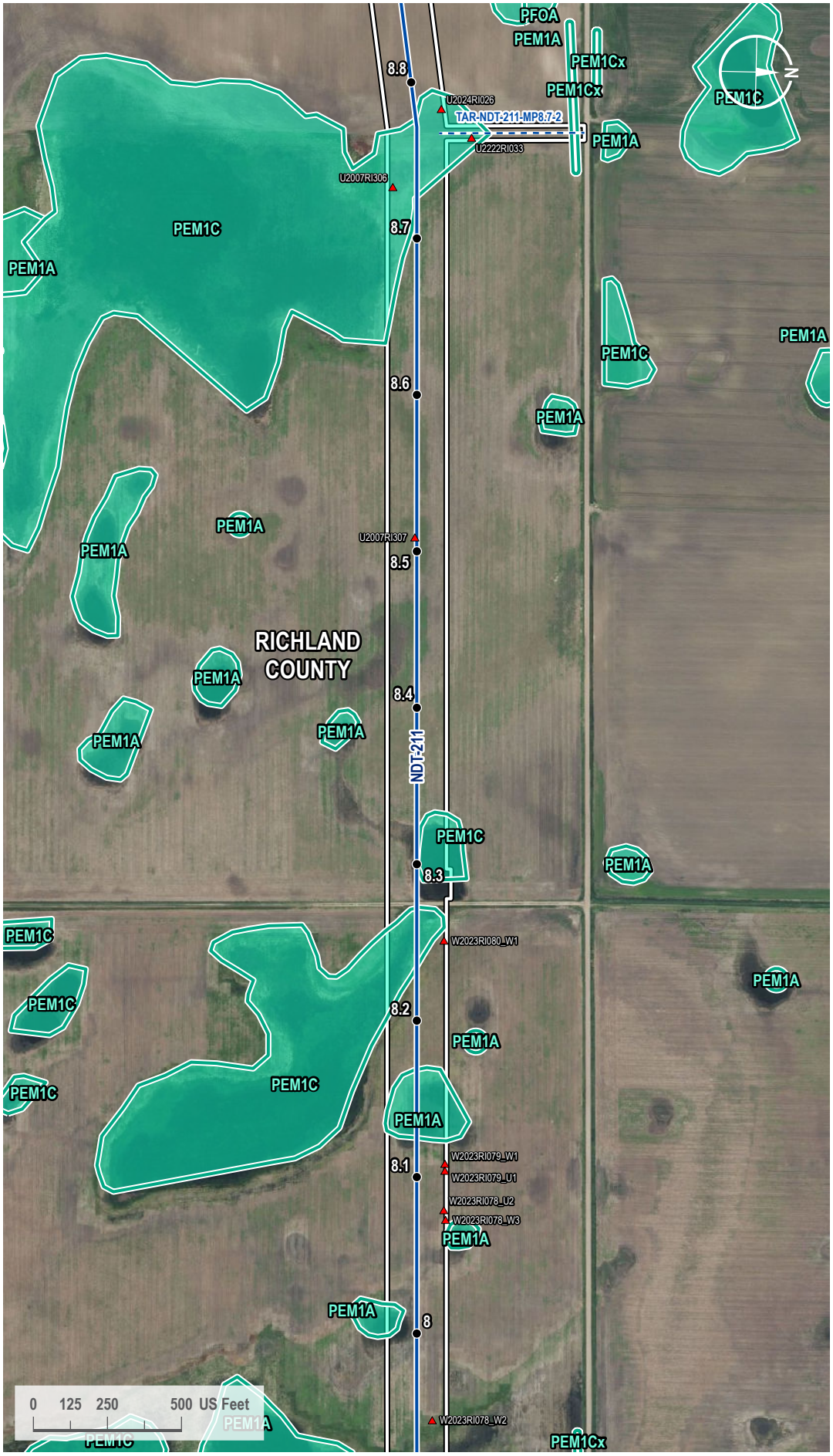

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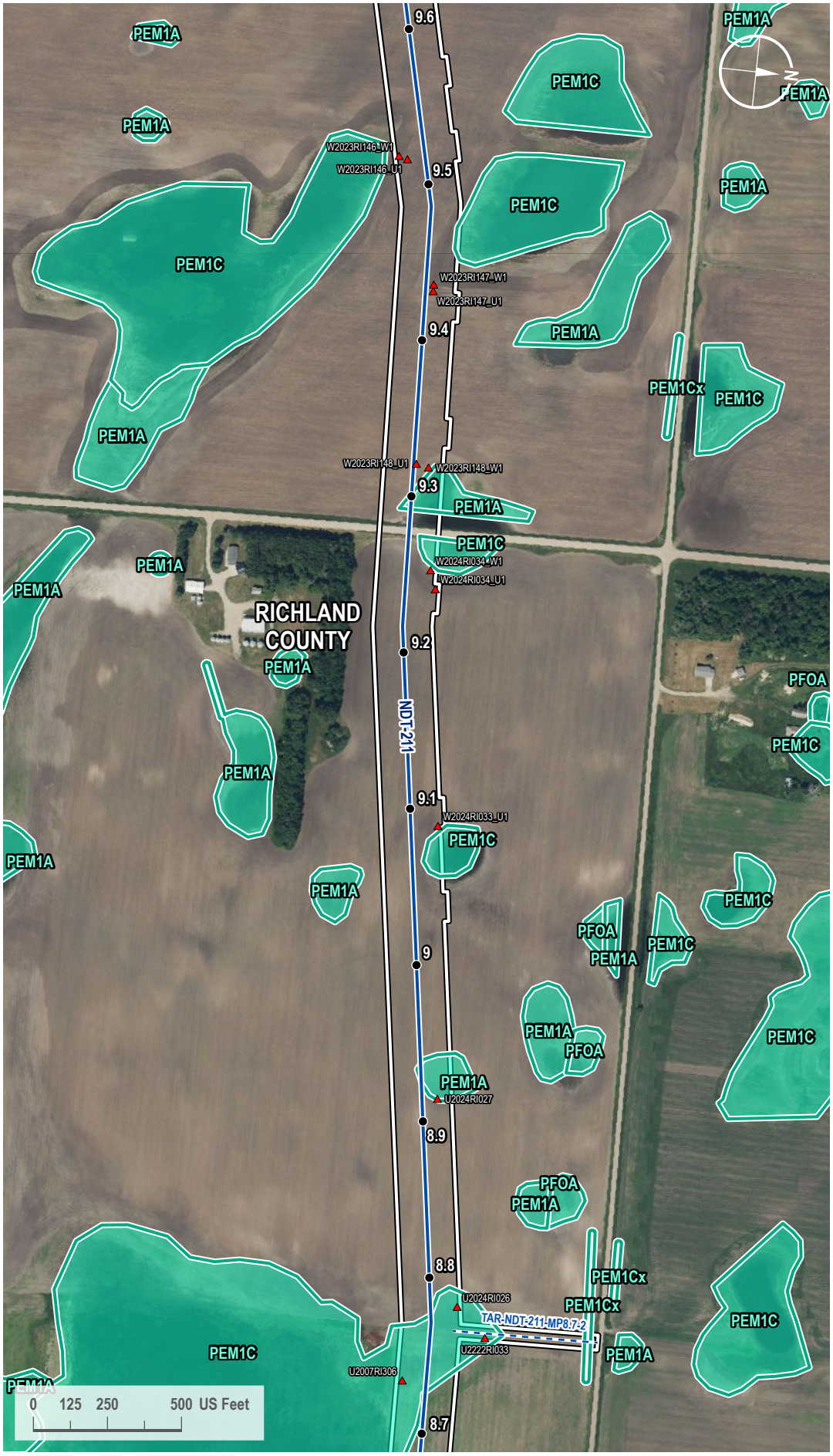

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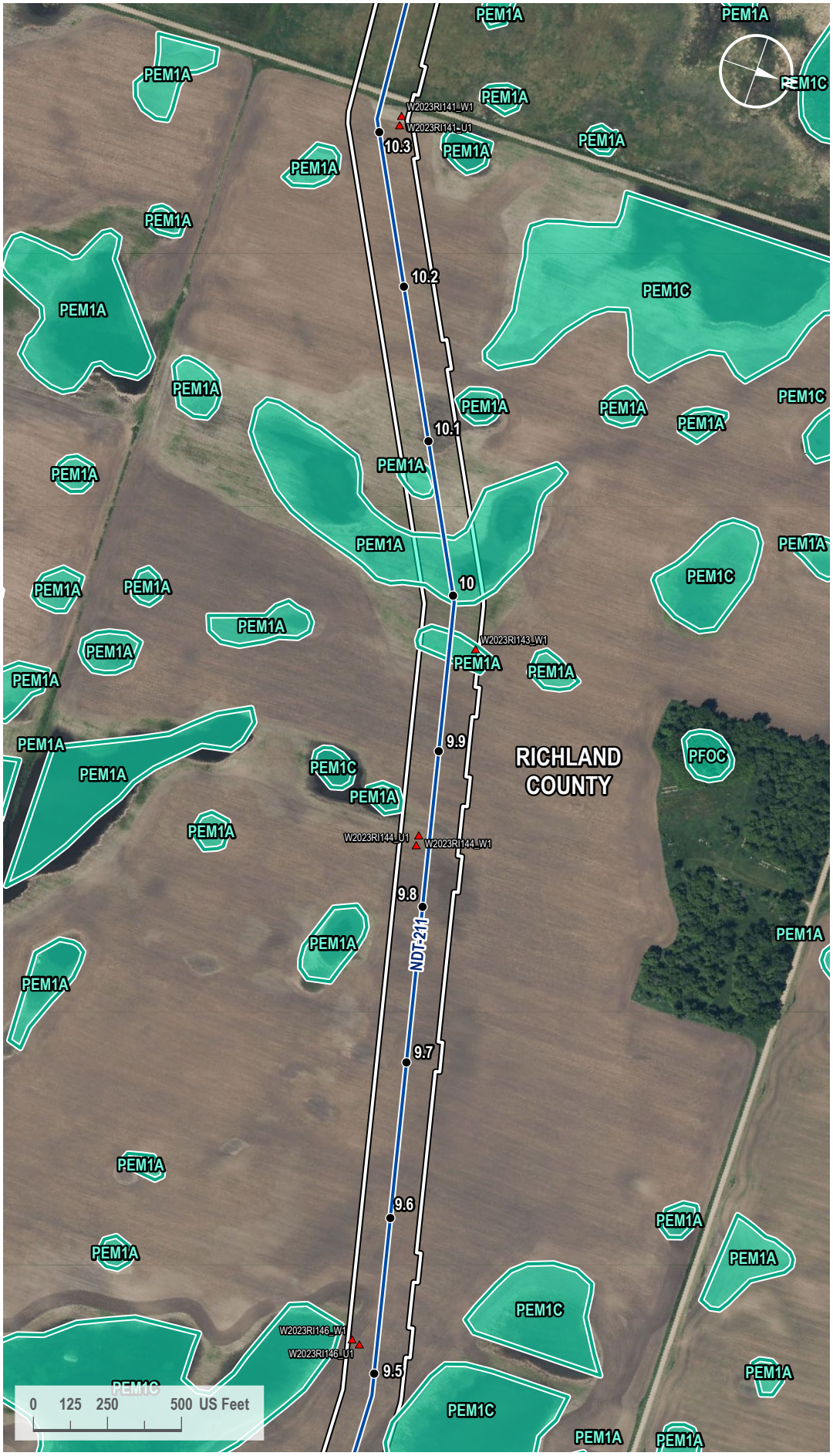

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Figure Title:
NWI Map

Figure Number:
Appendix A-4

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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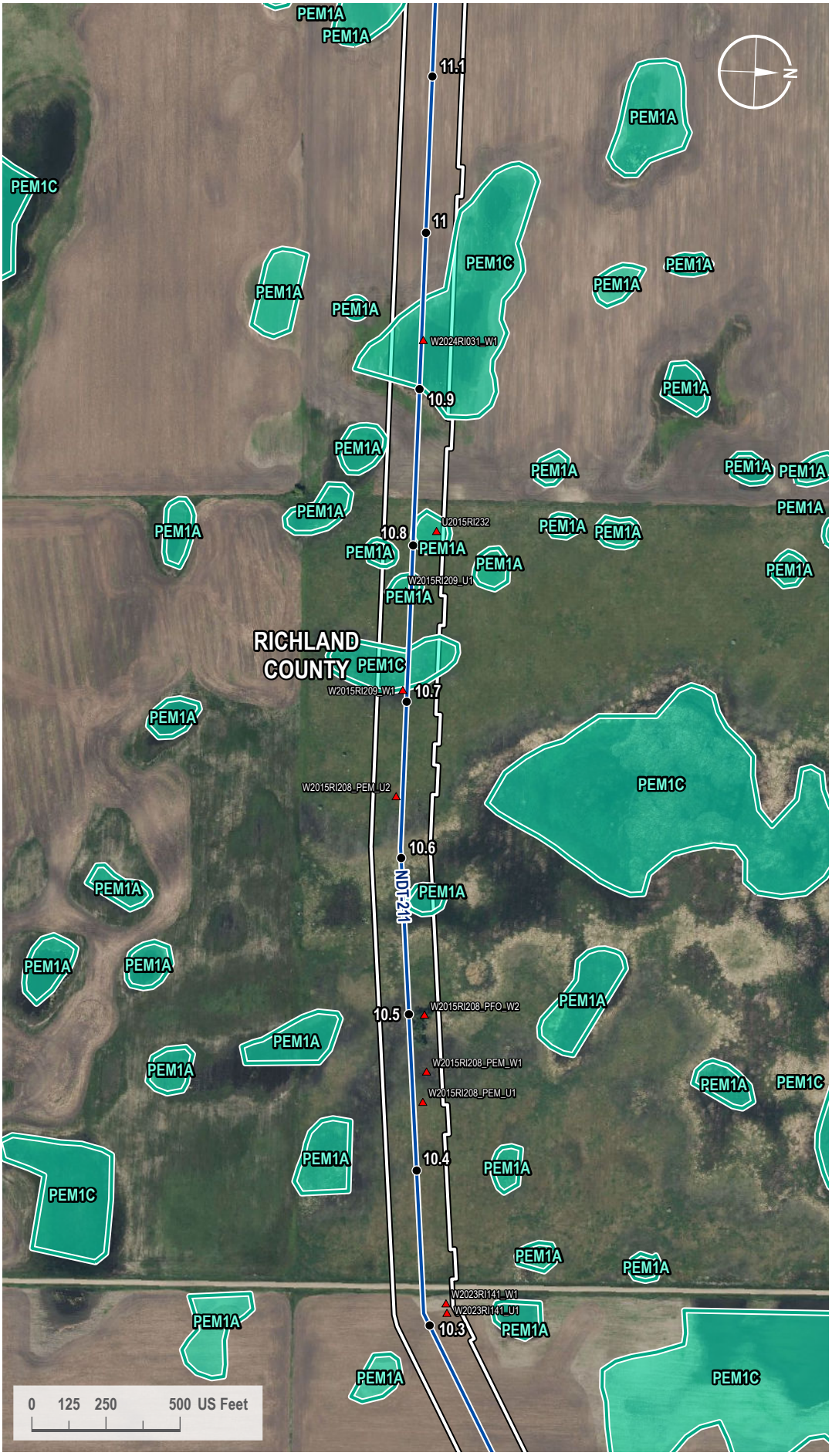

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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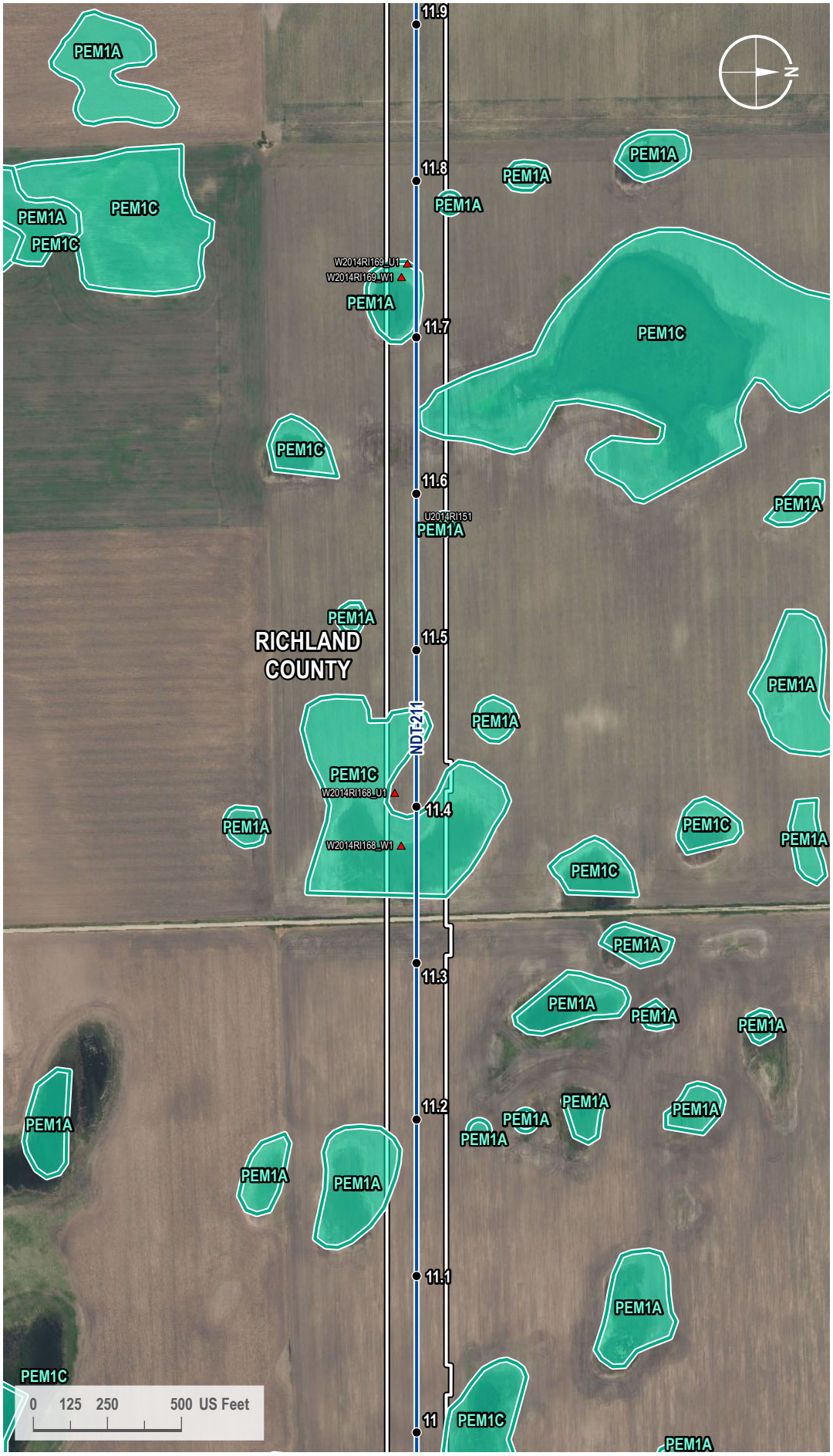

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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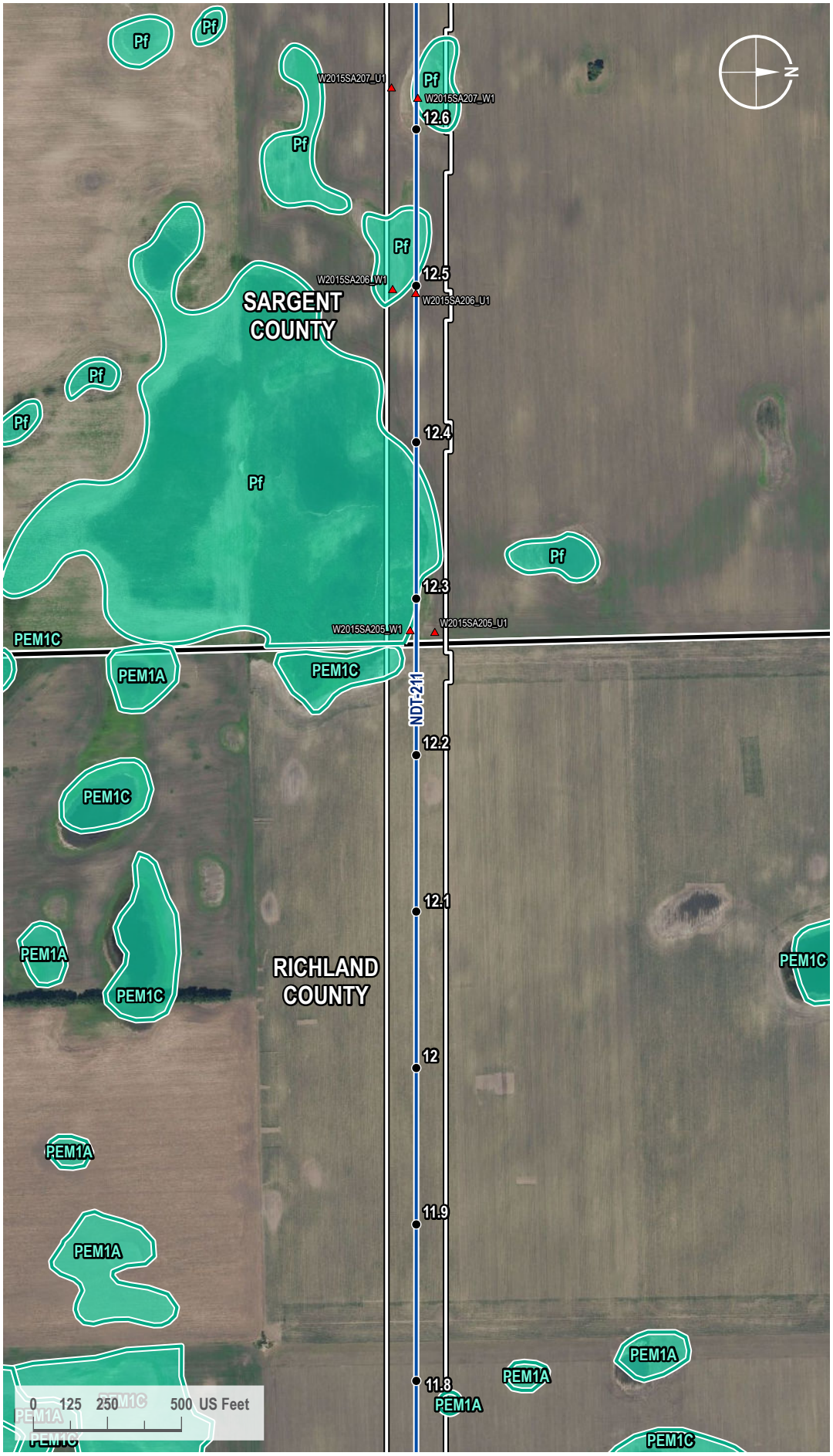

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor
- NWI Wetland

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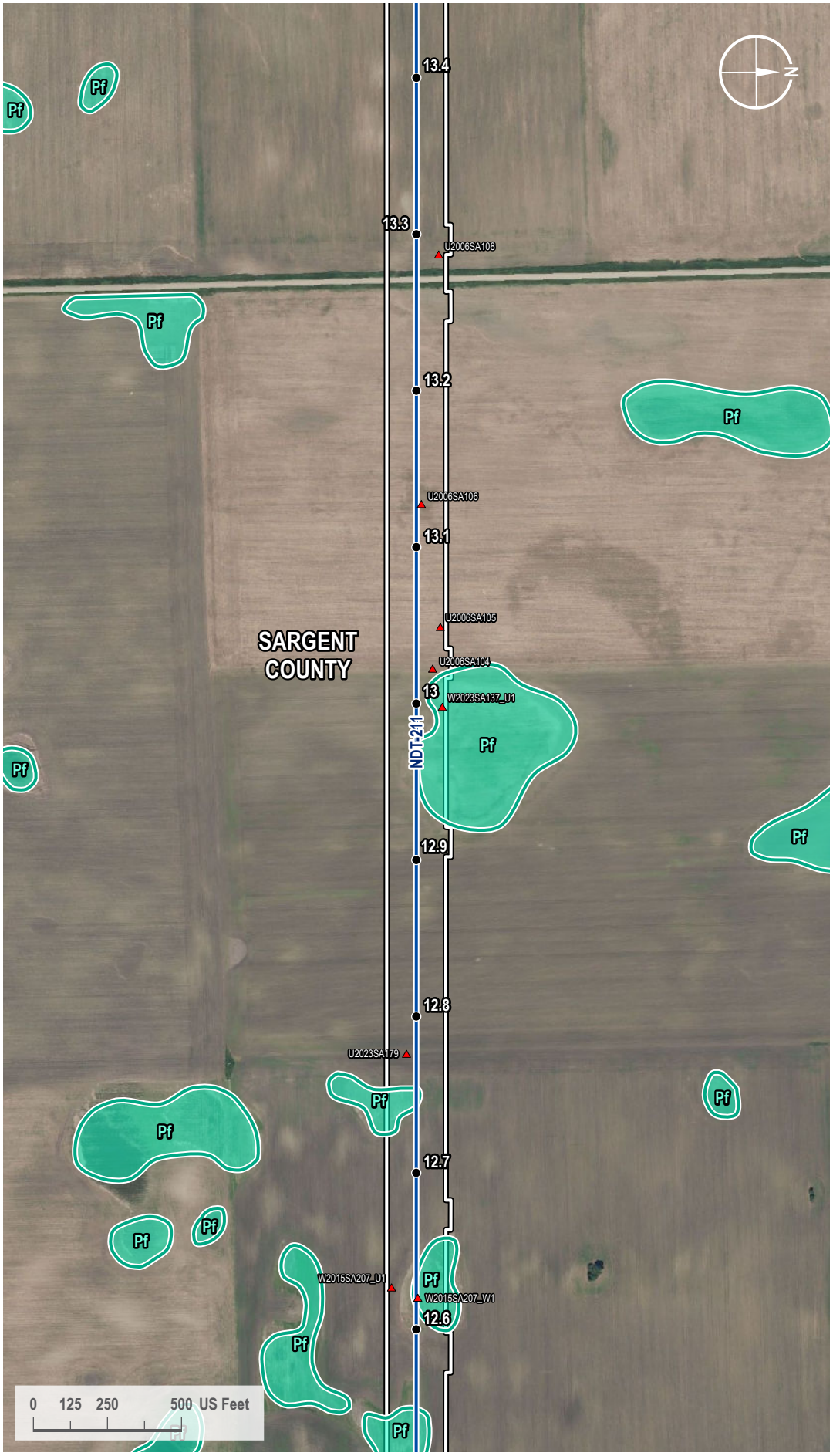

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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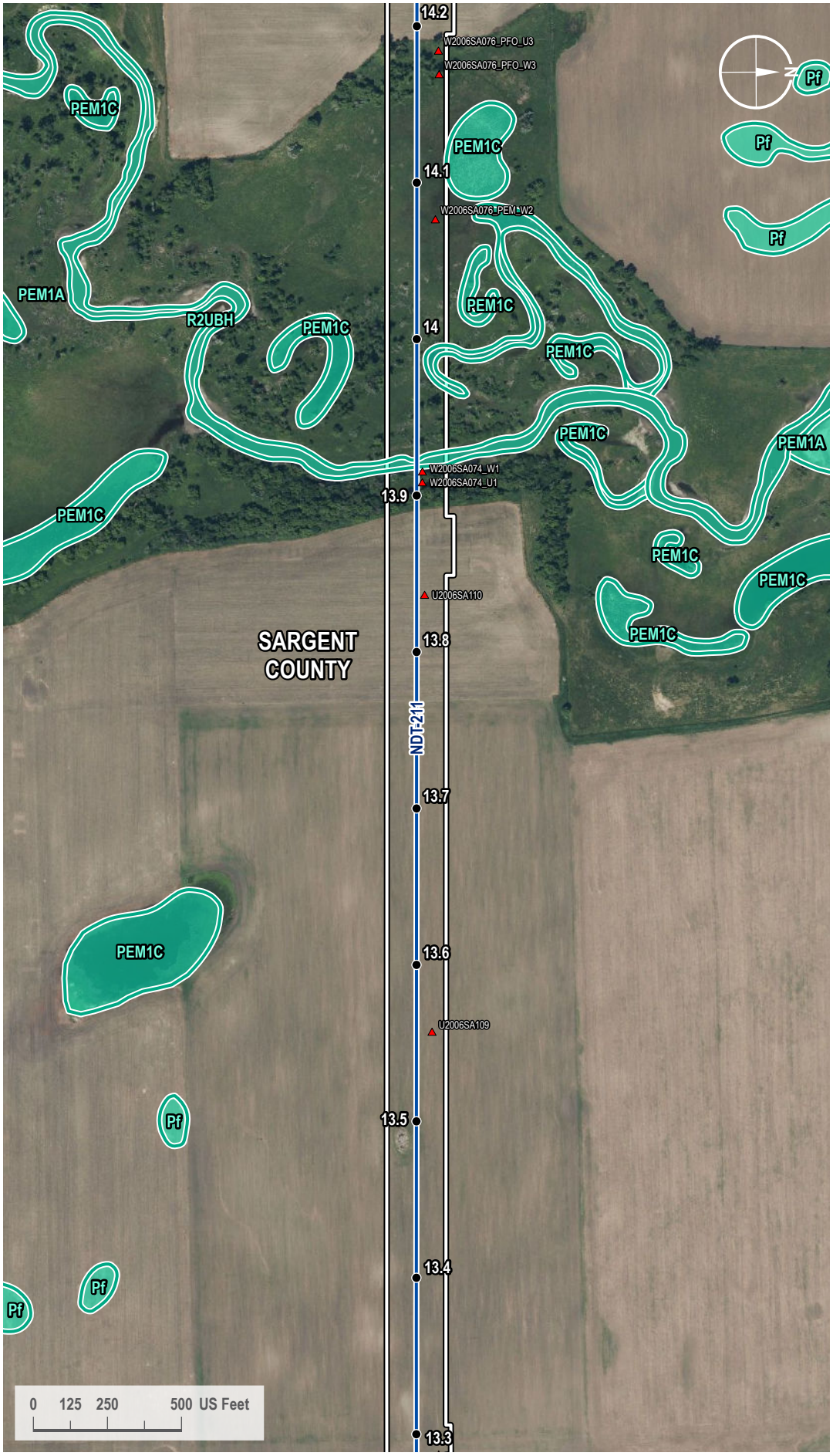

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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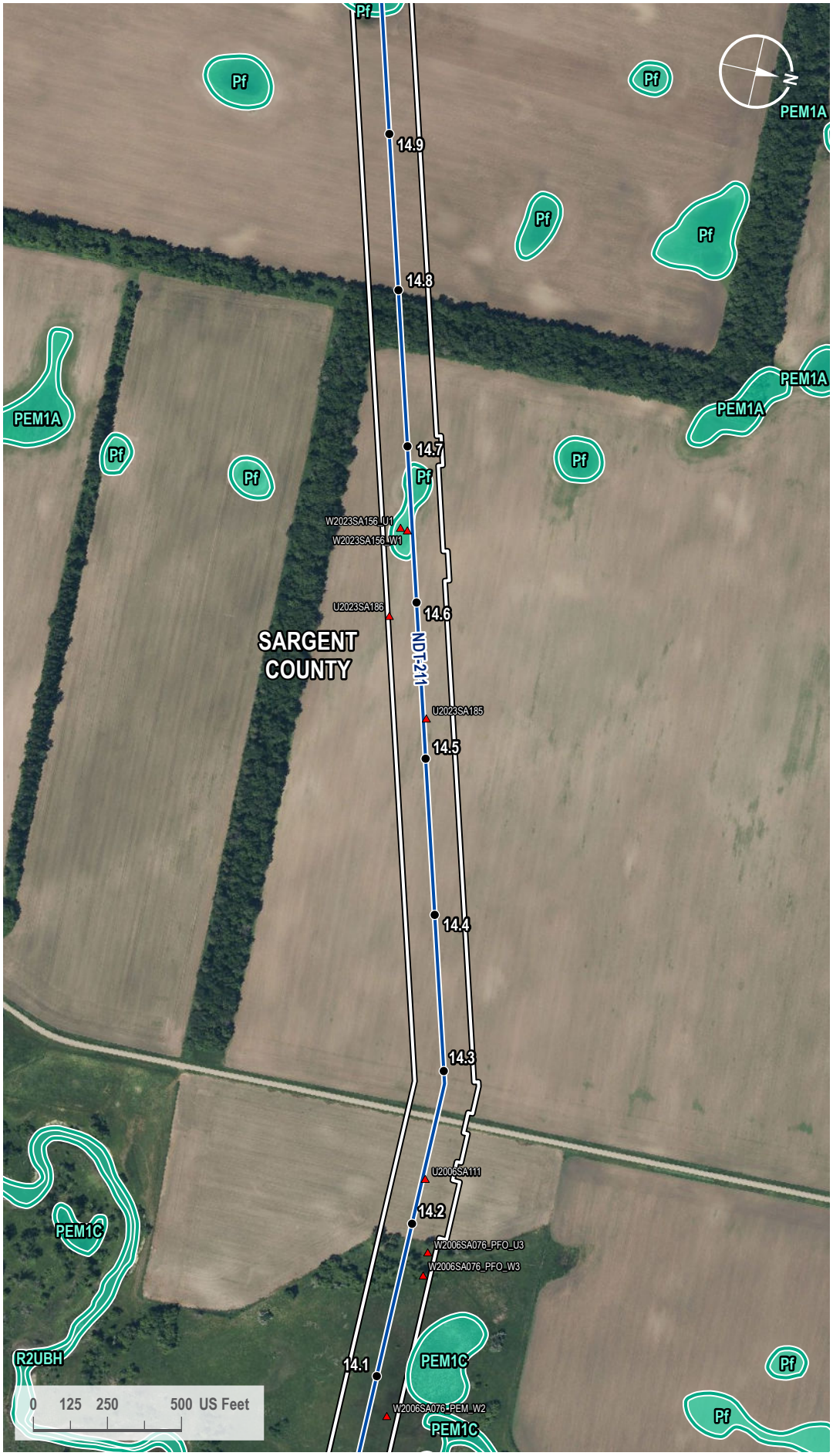

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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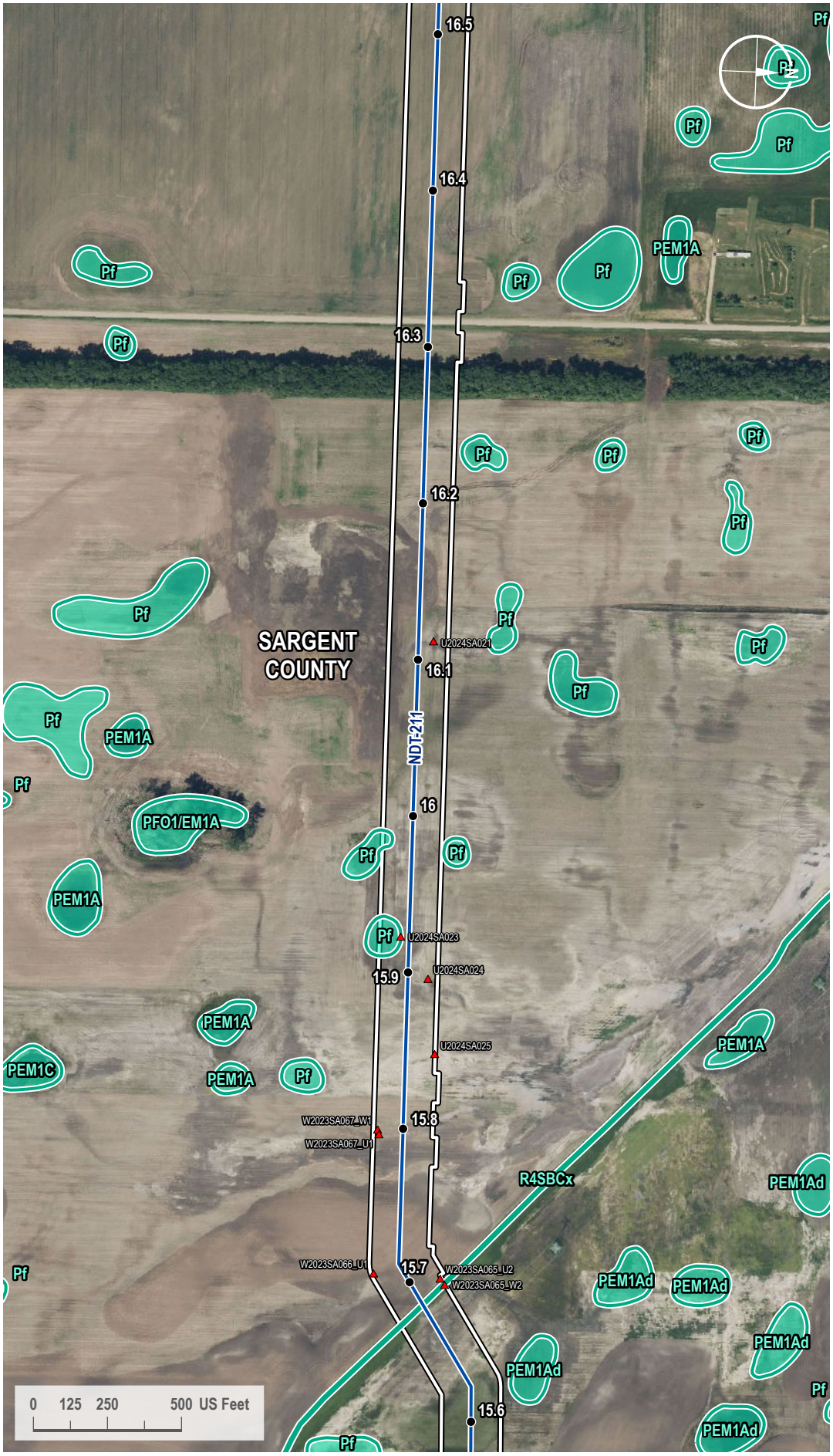

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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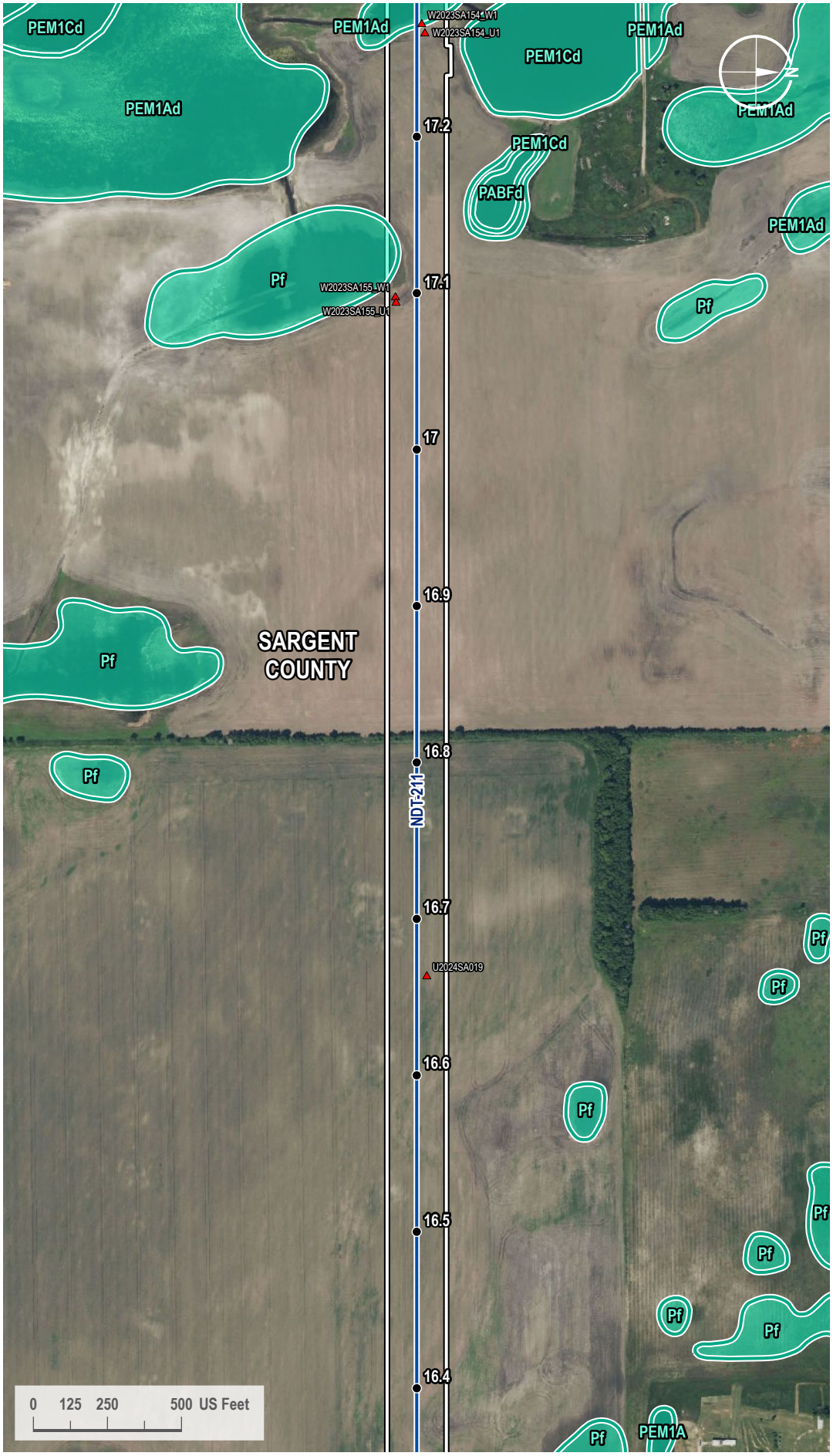

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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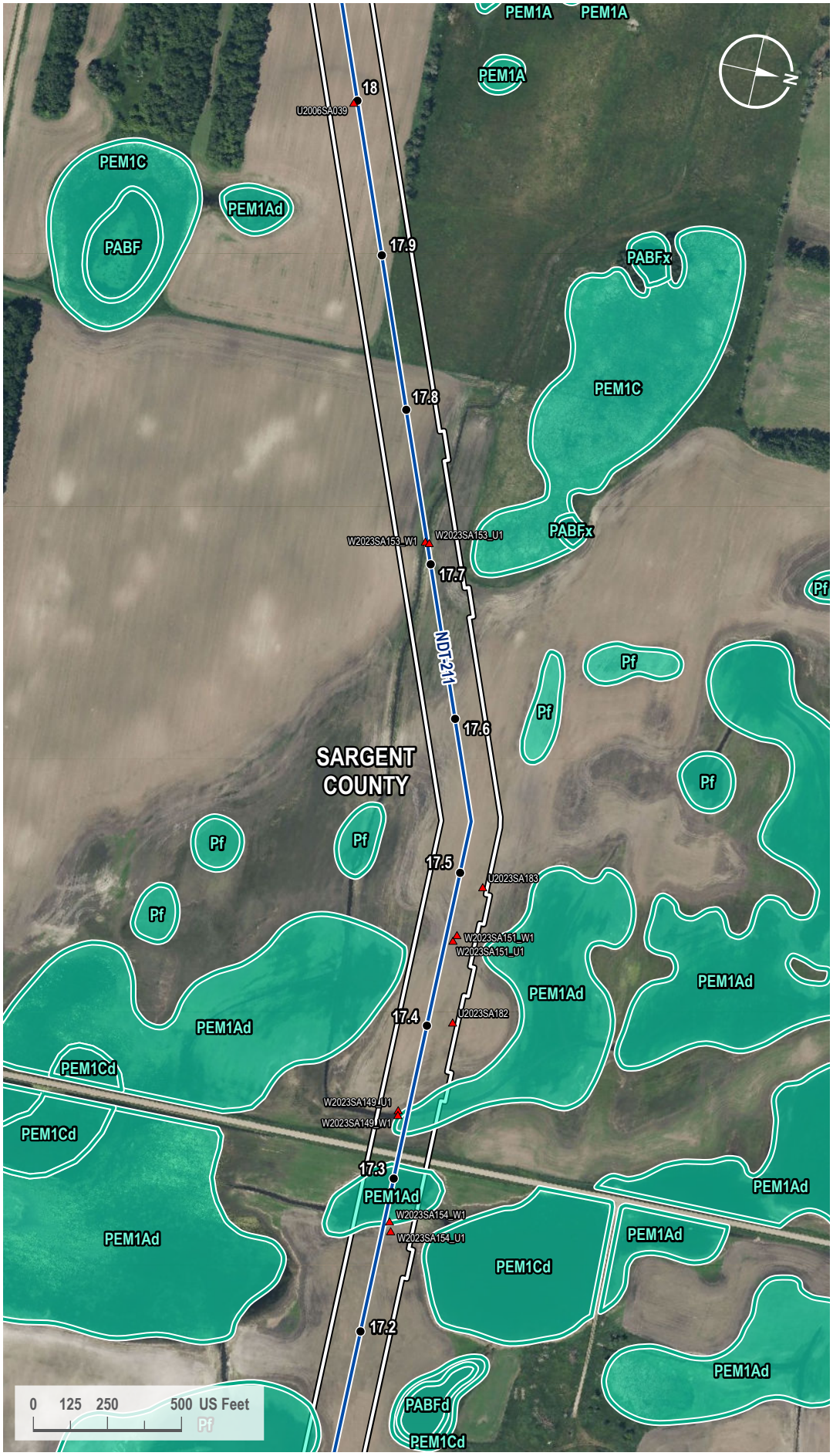

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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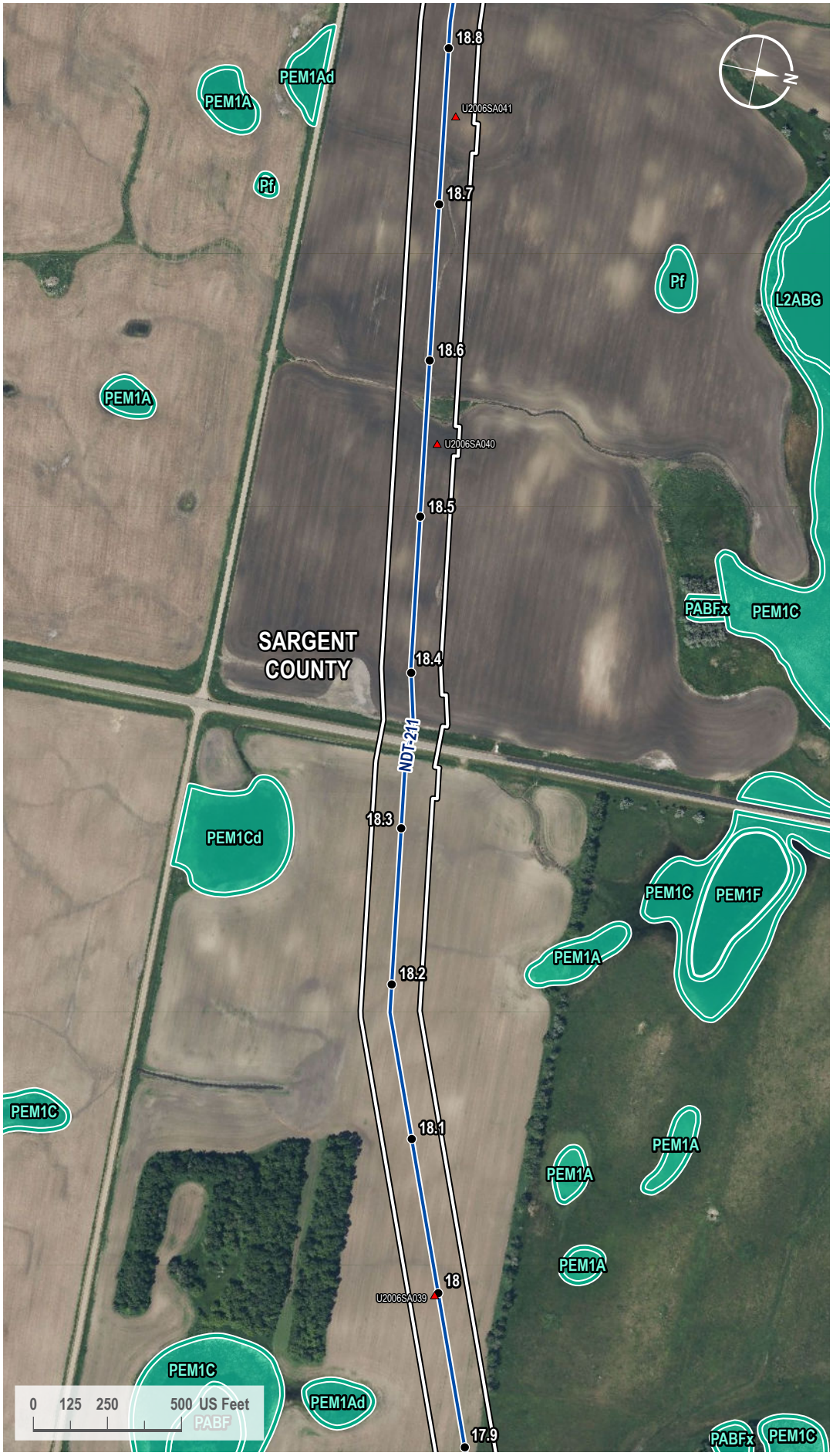

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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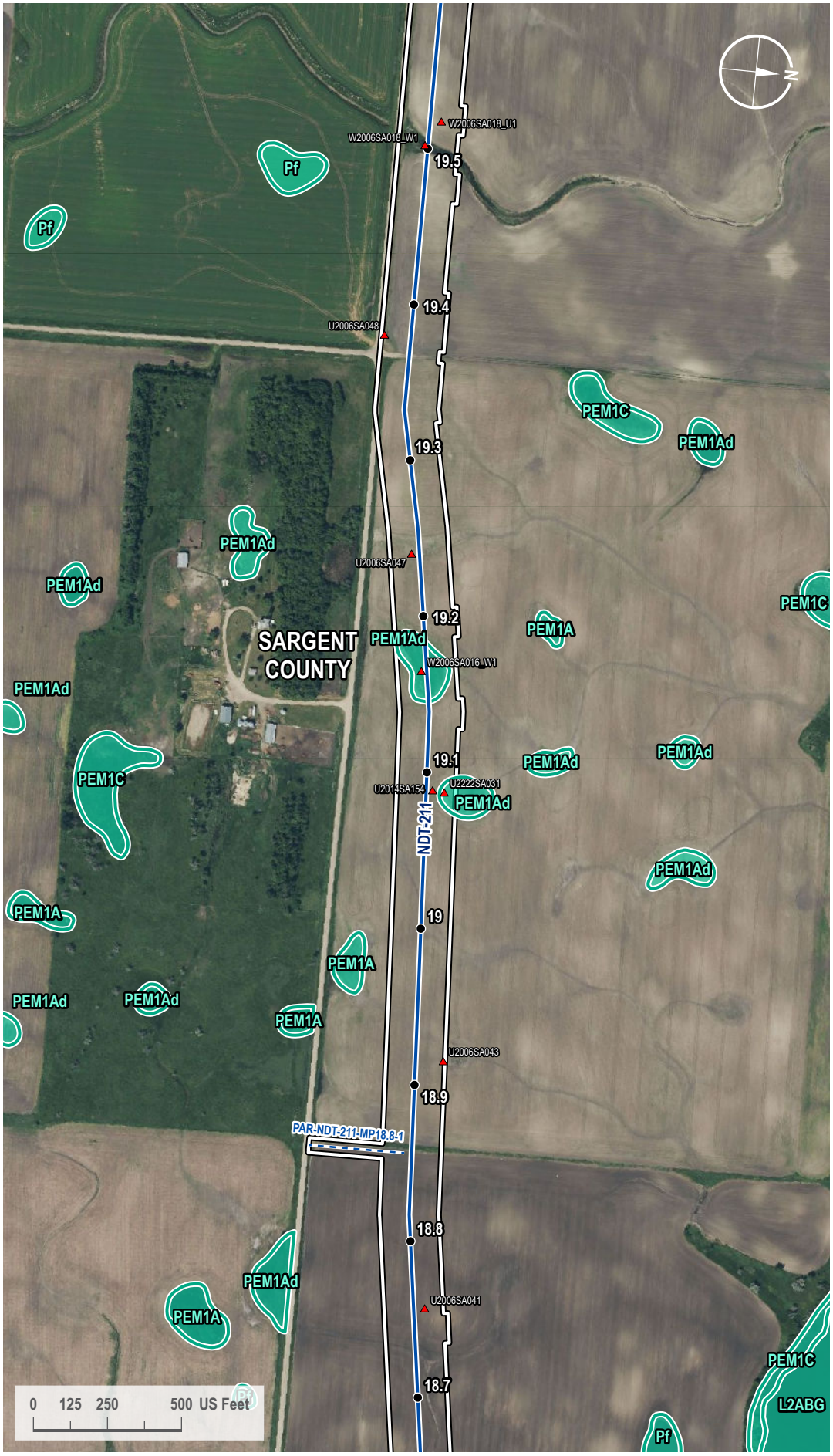

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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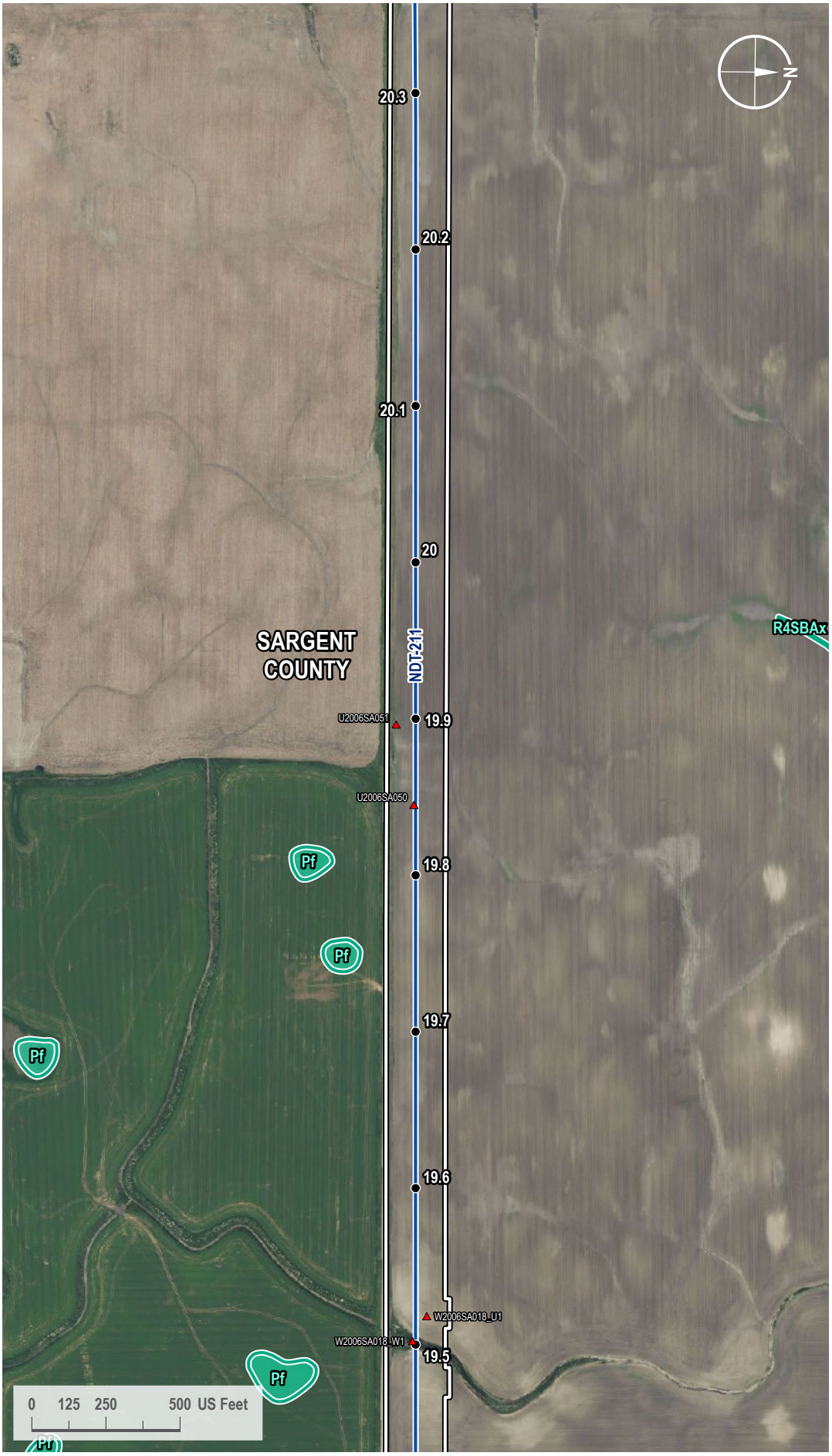

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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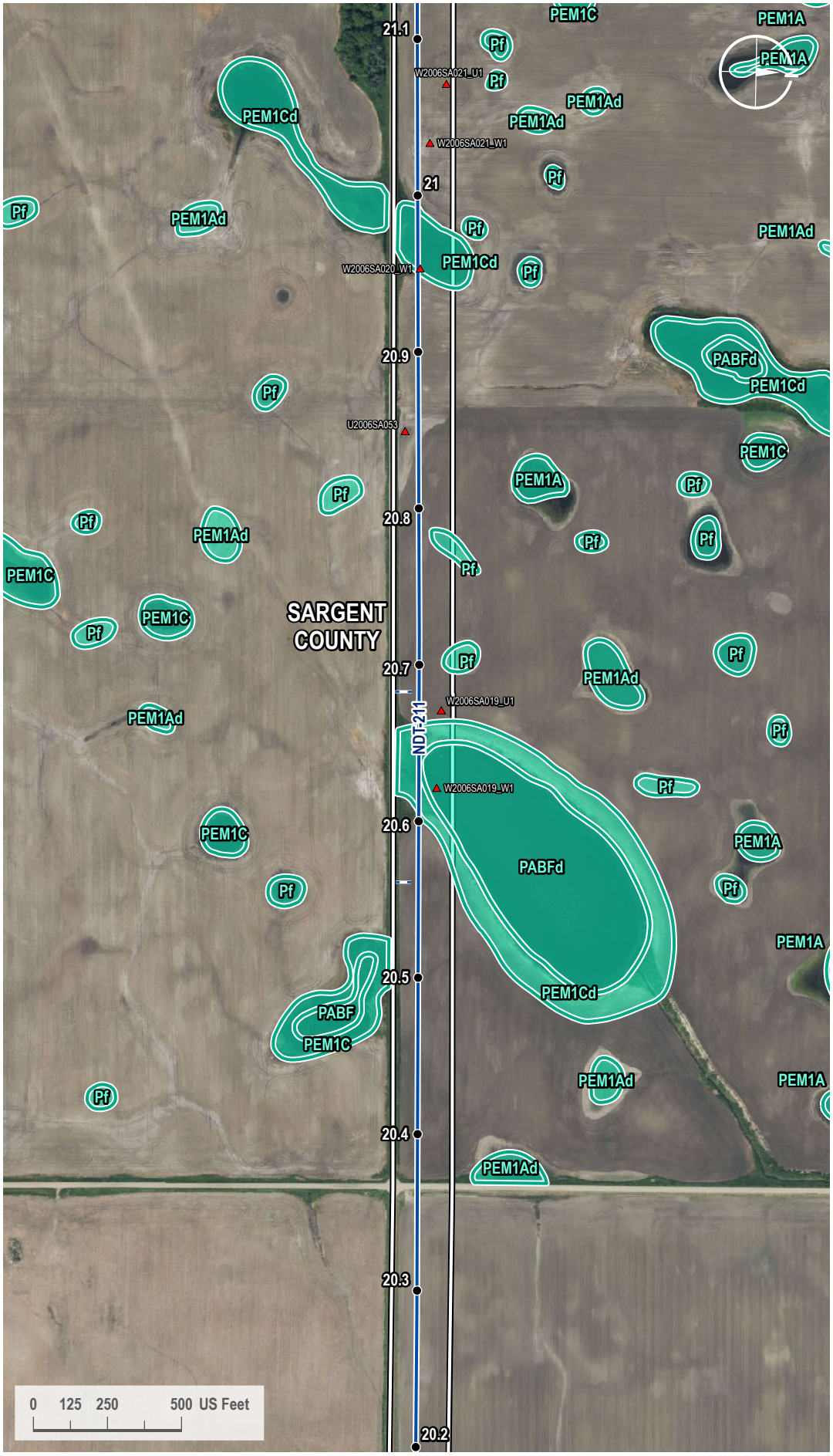

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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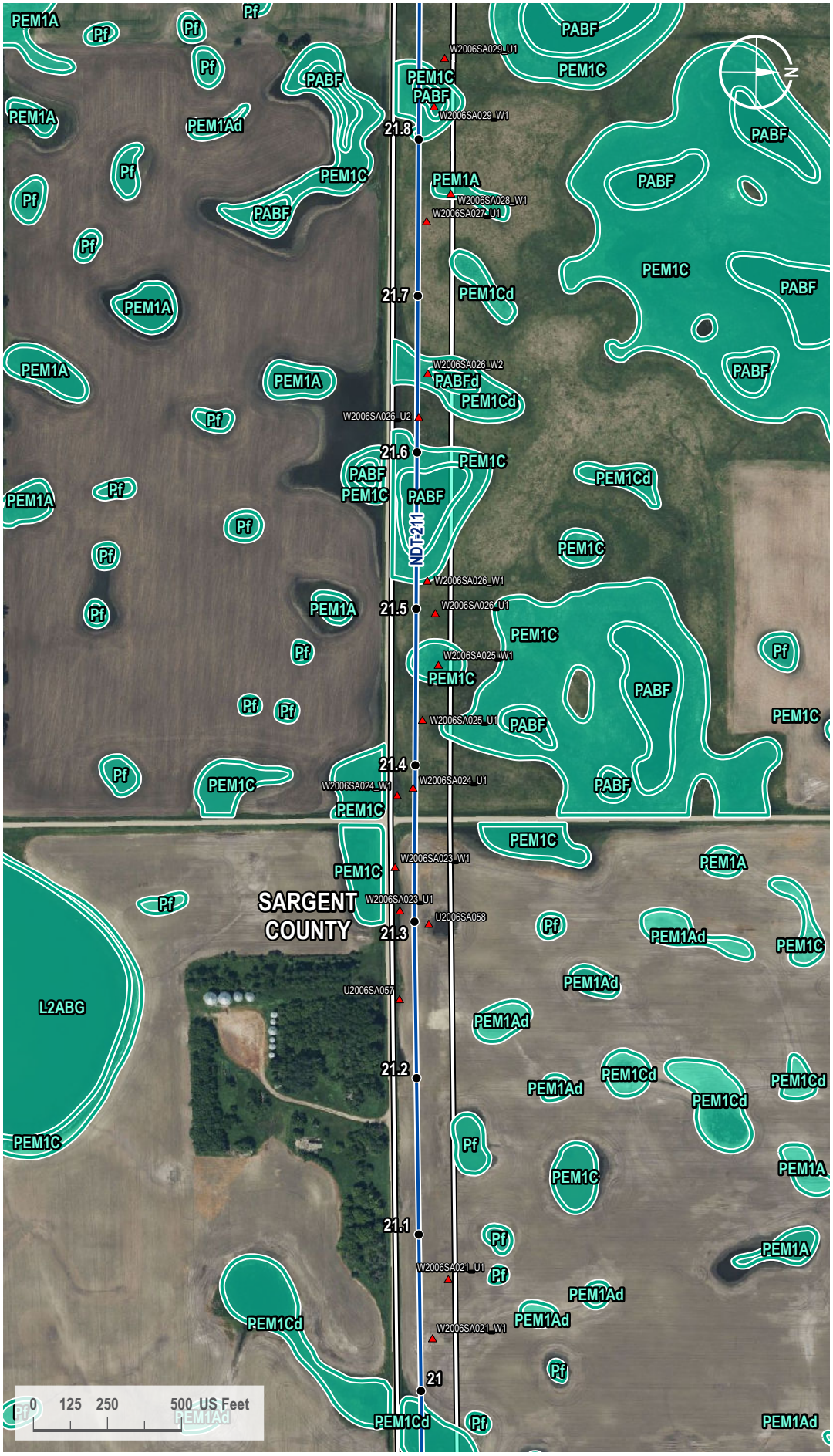

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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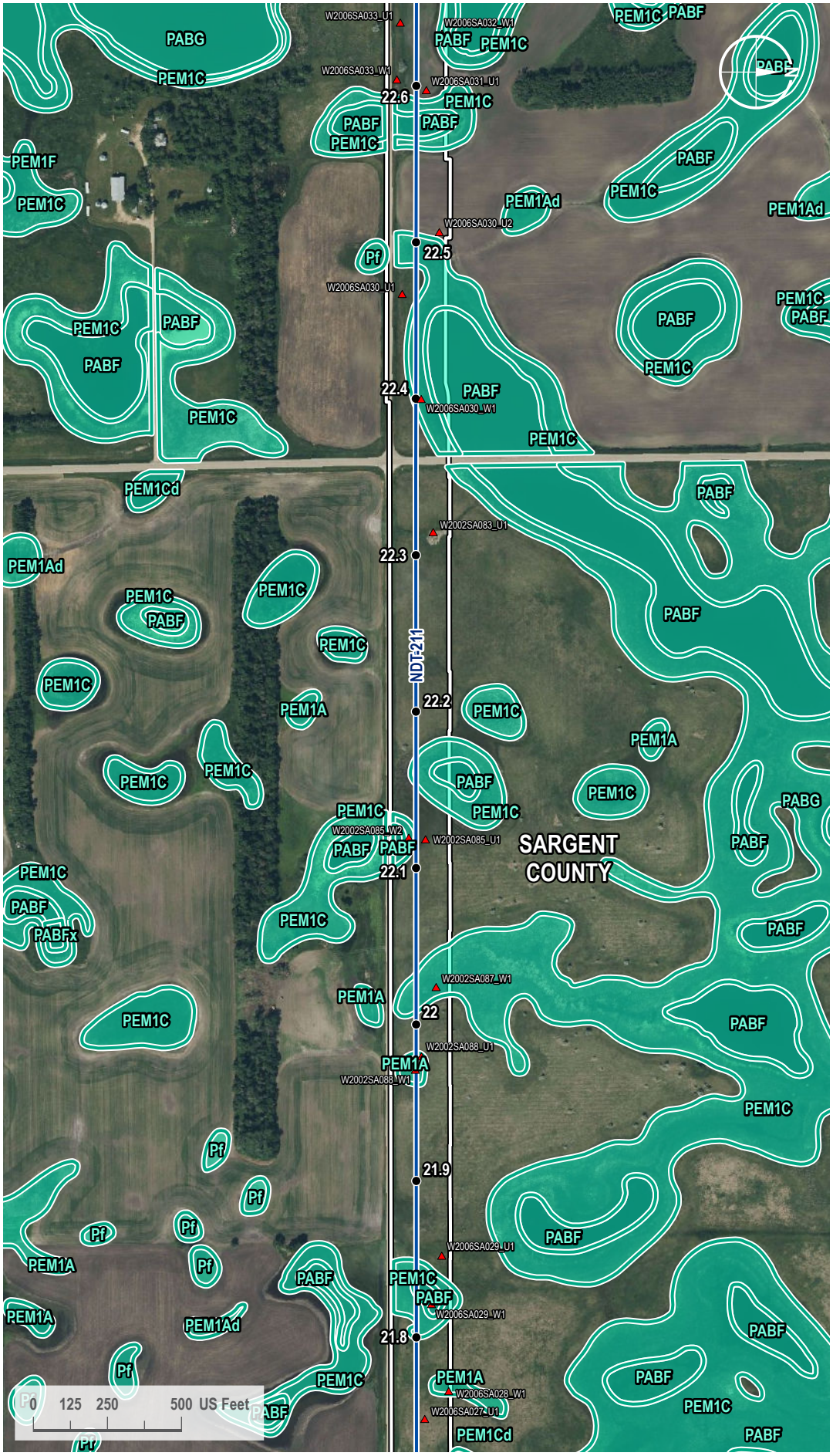

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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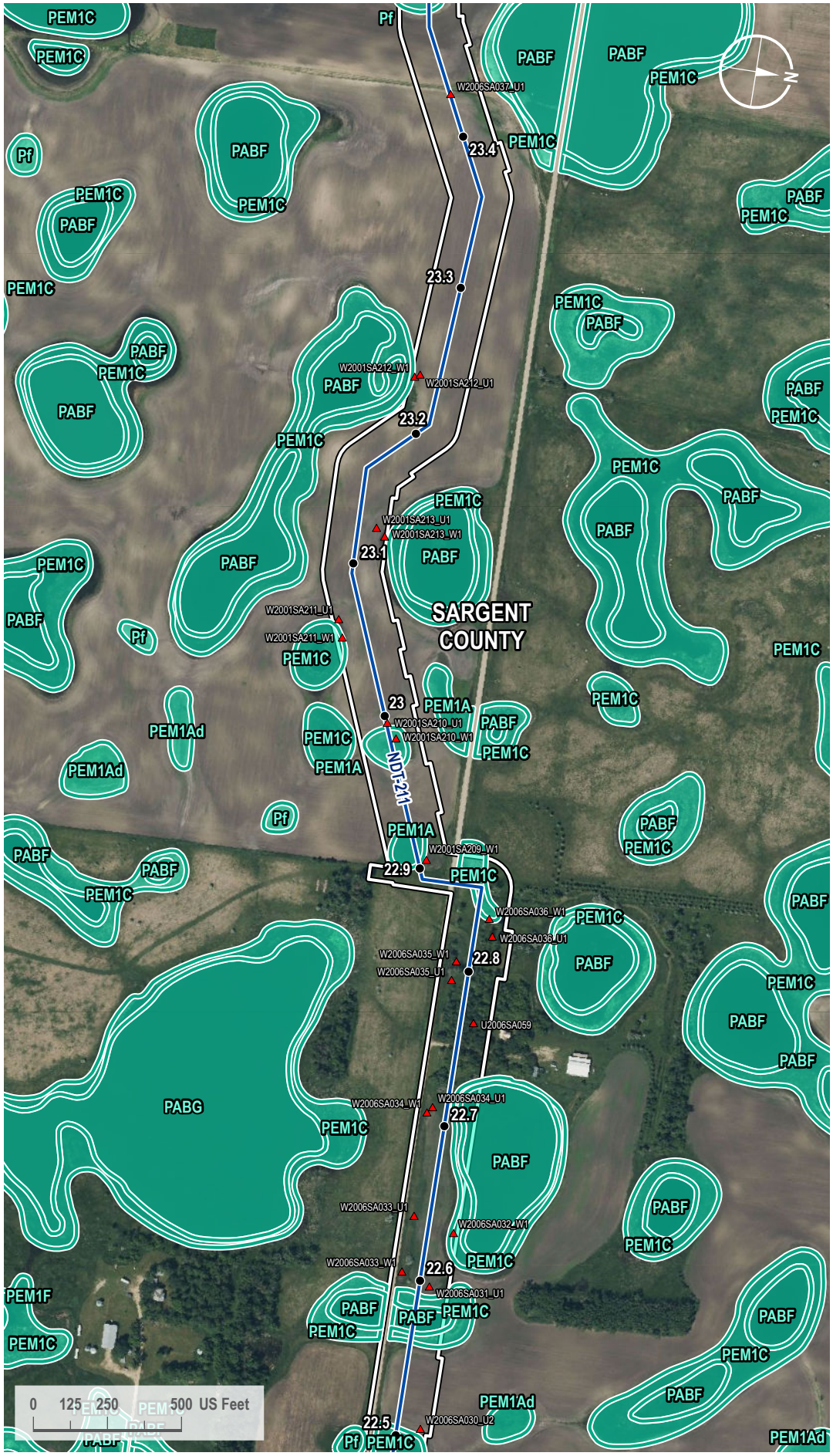

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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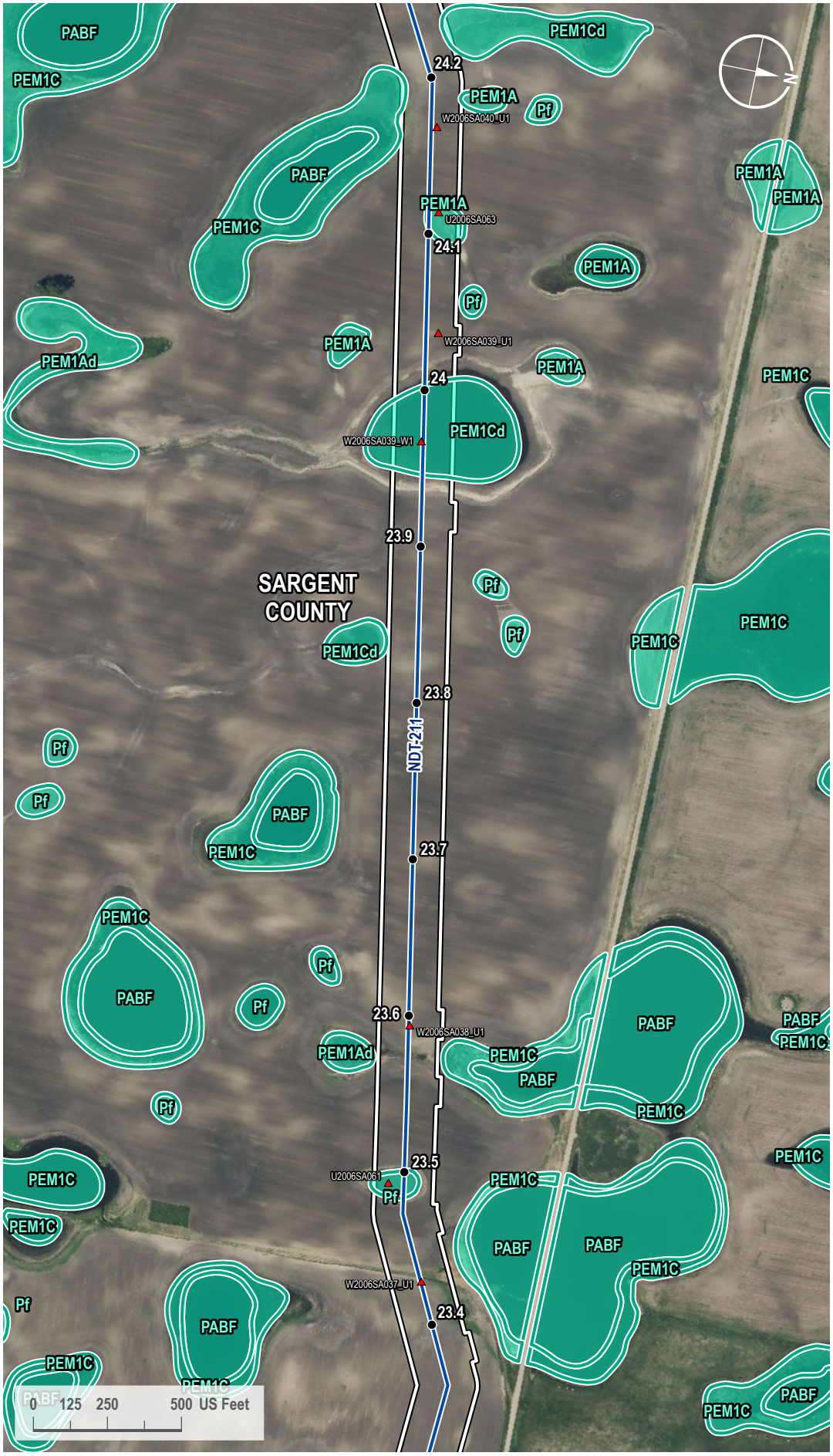

VICINITY MAP



LEGEND

- Milepost
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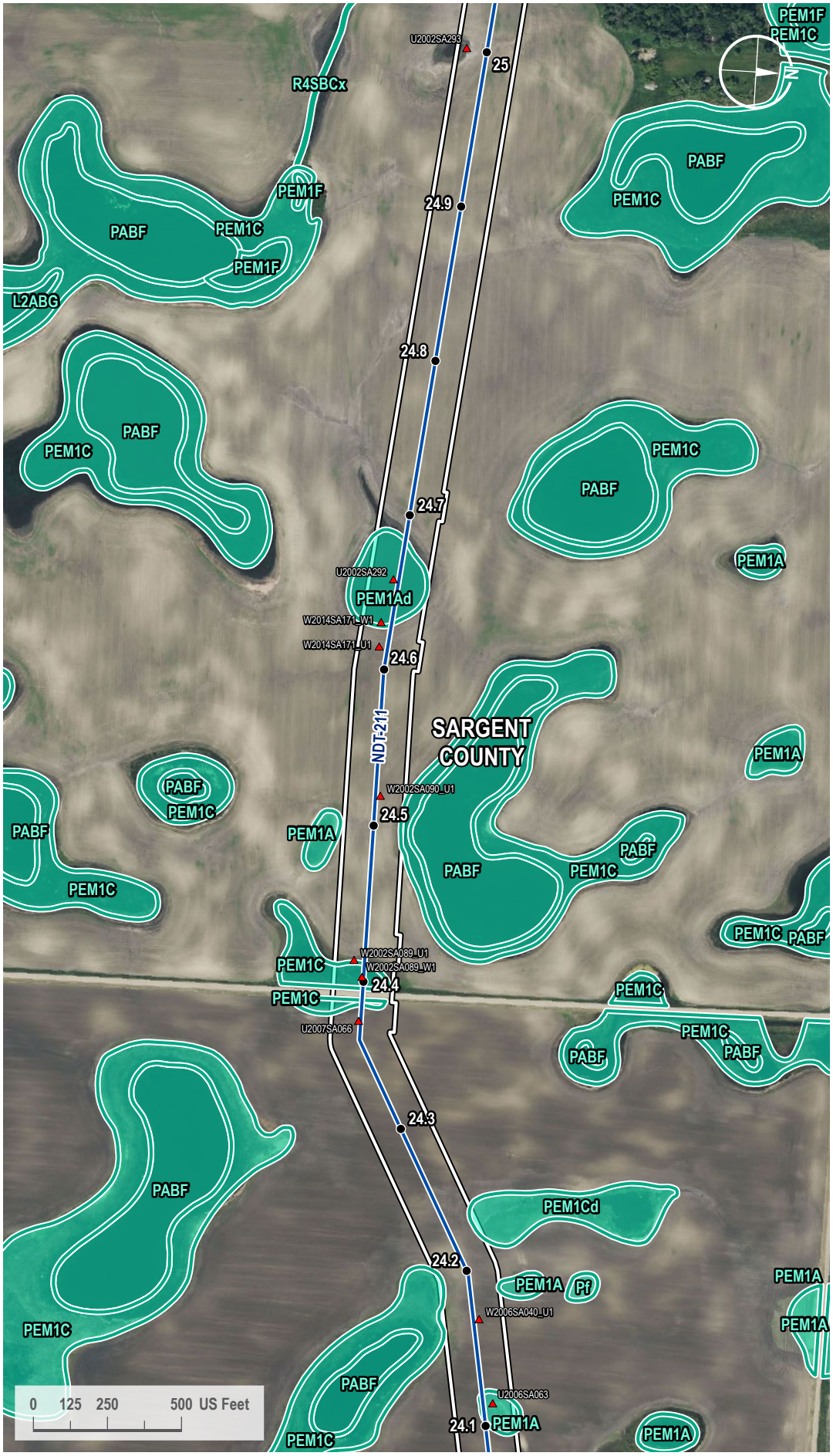

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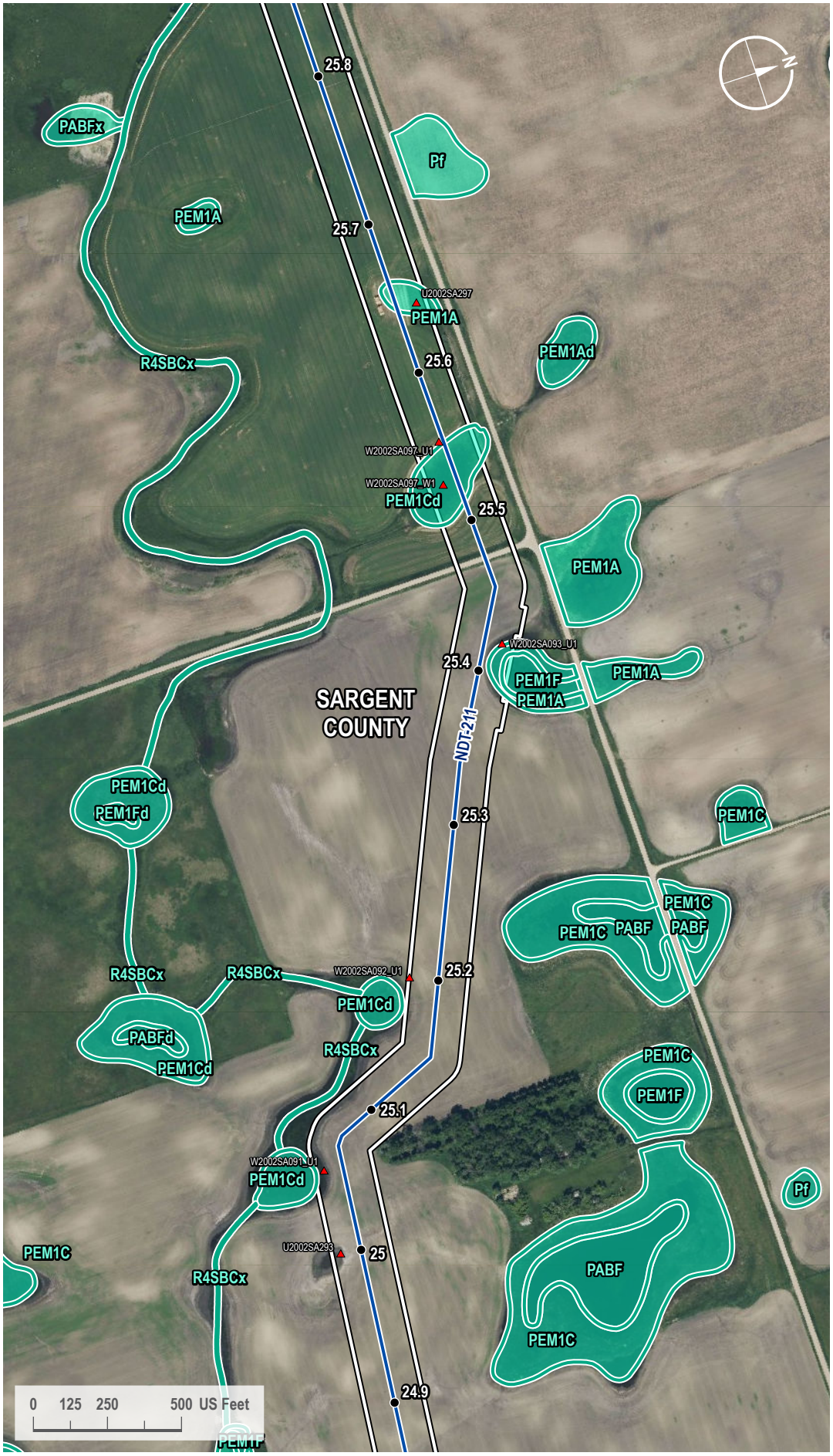

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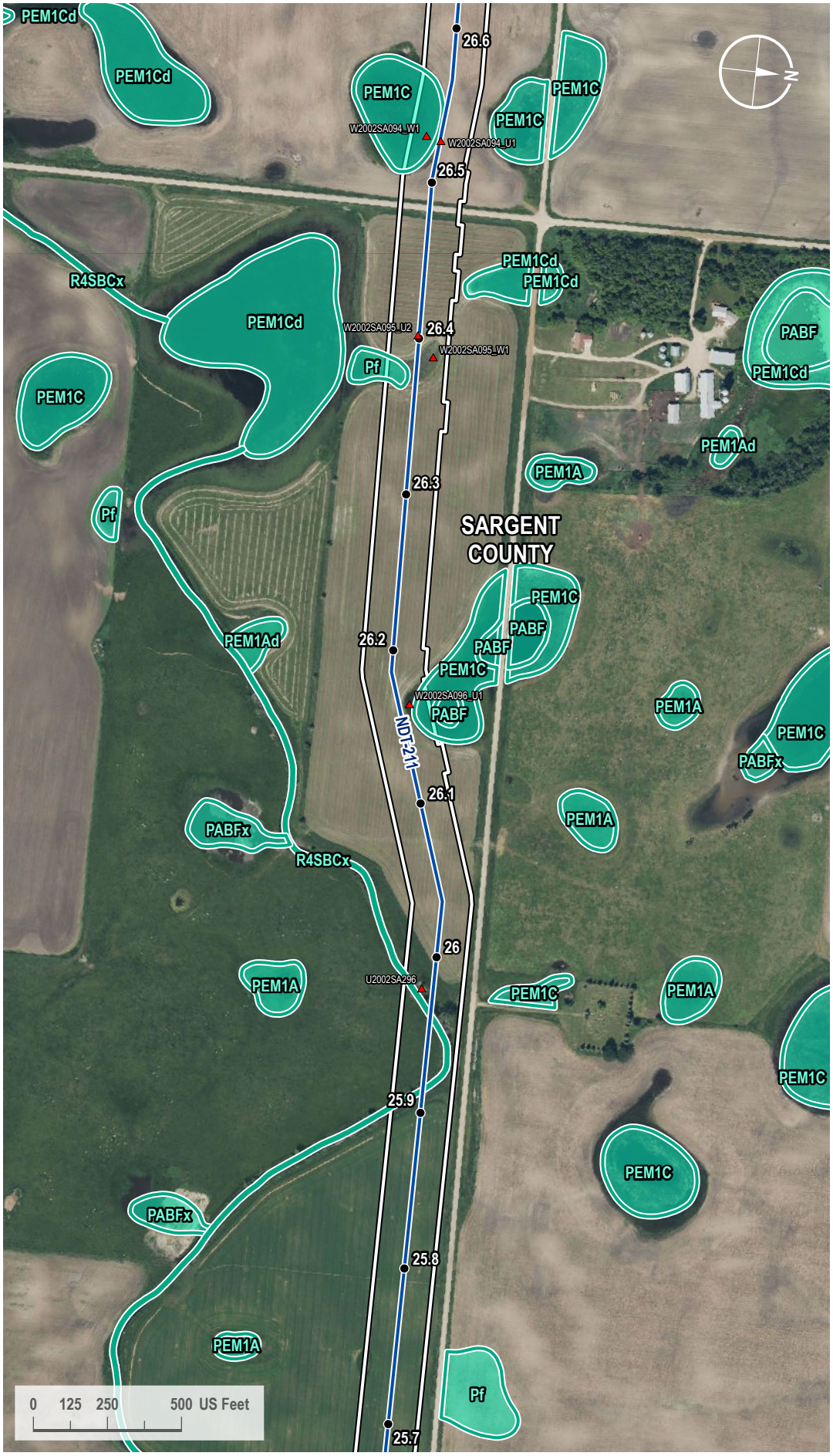

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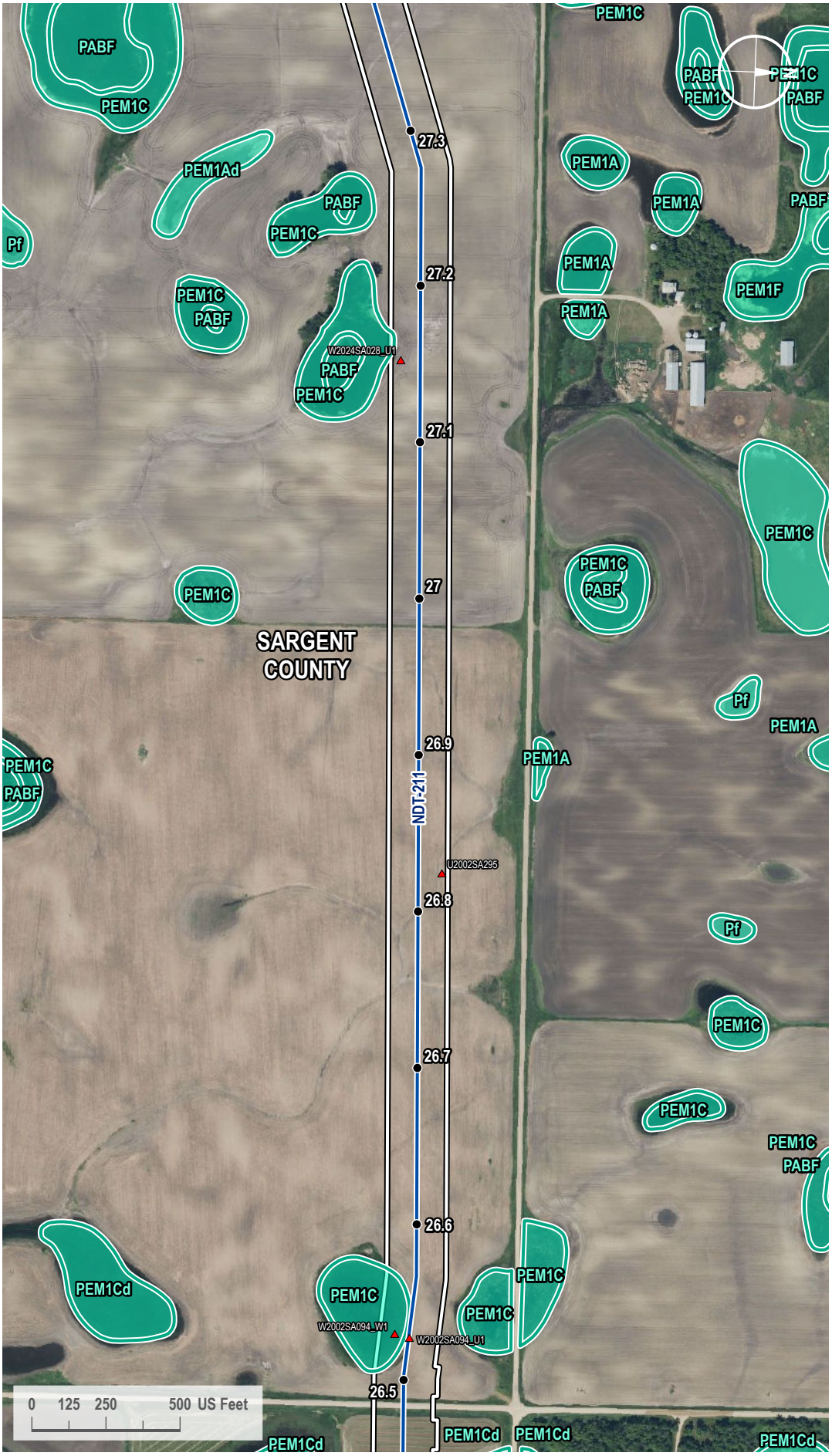

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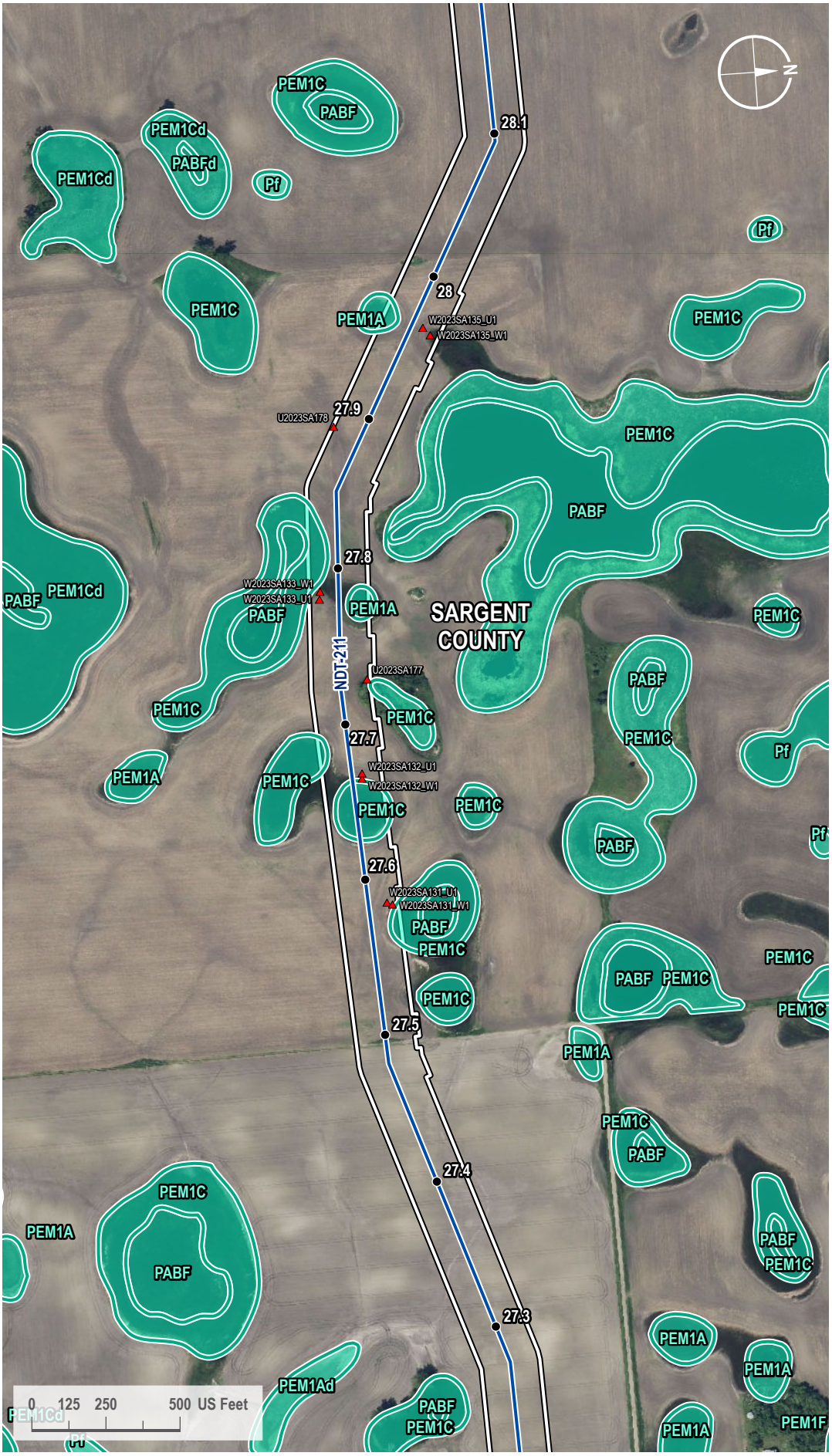

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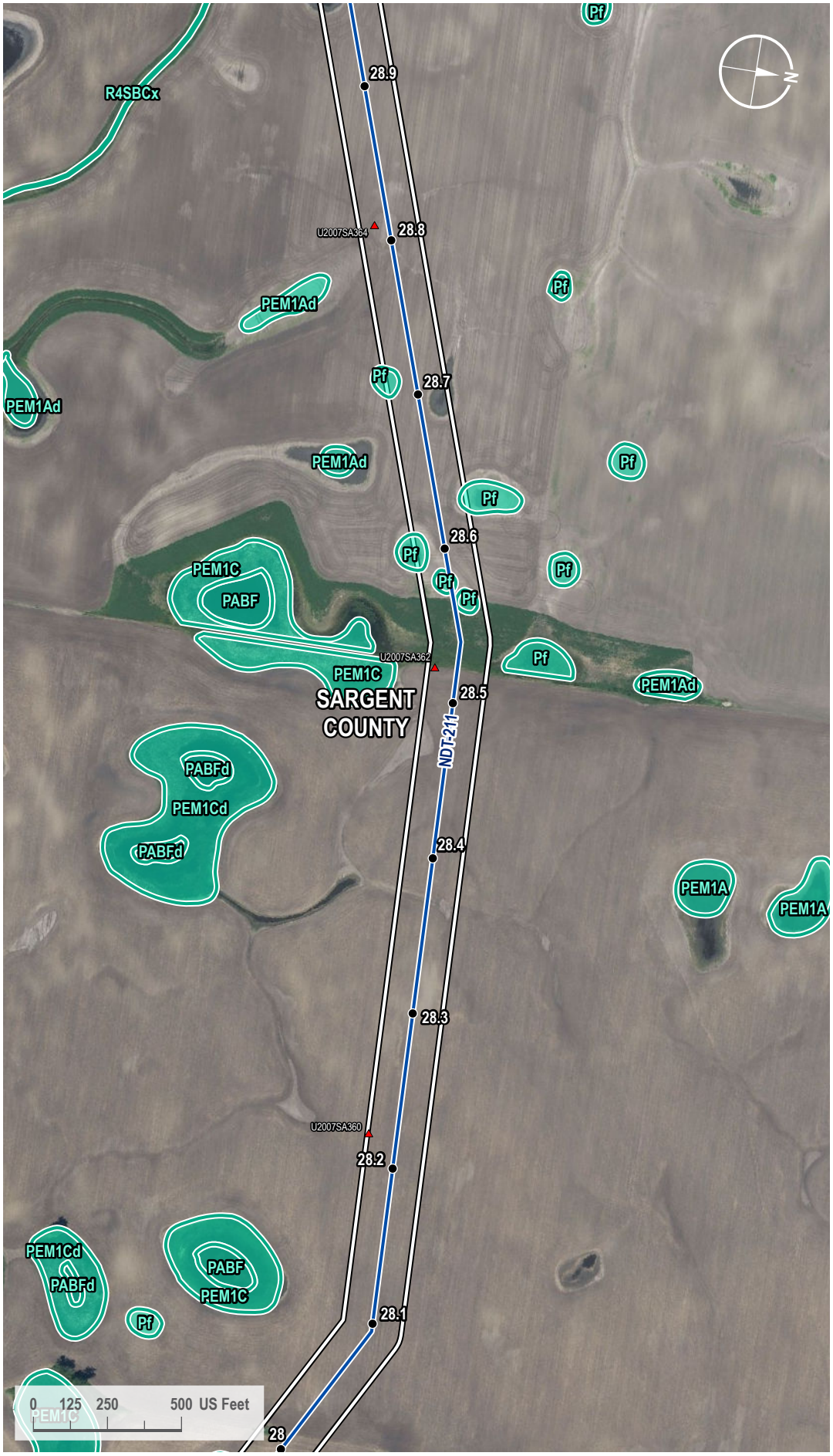

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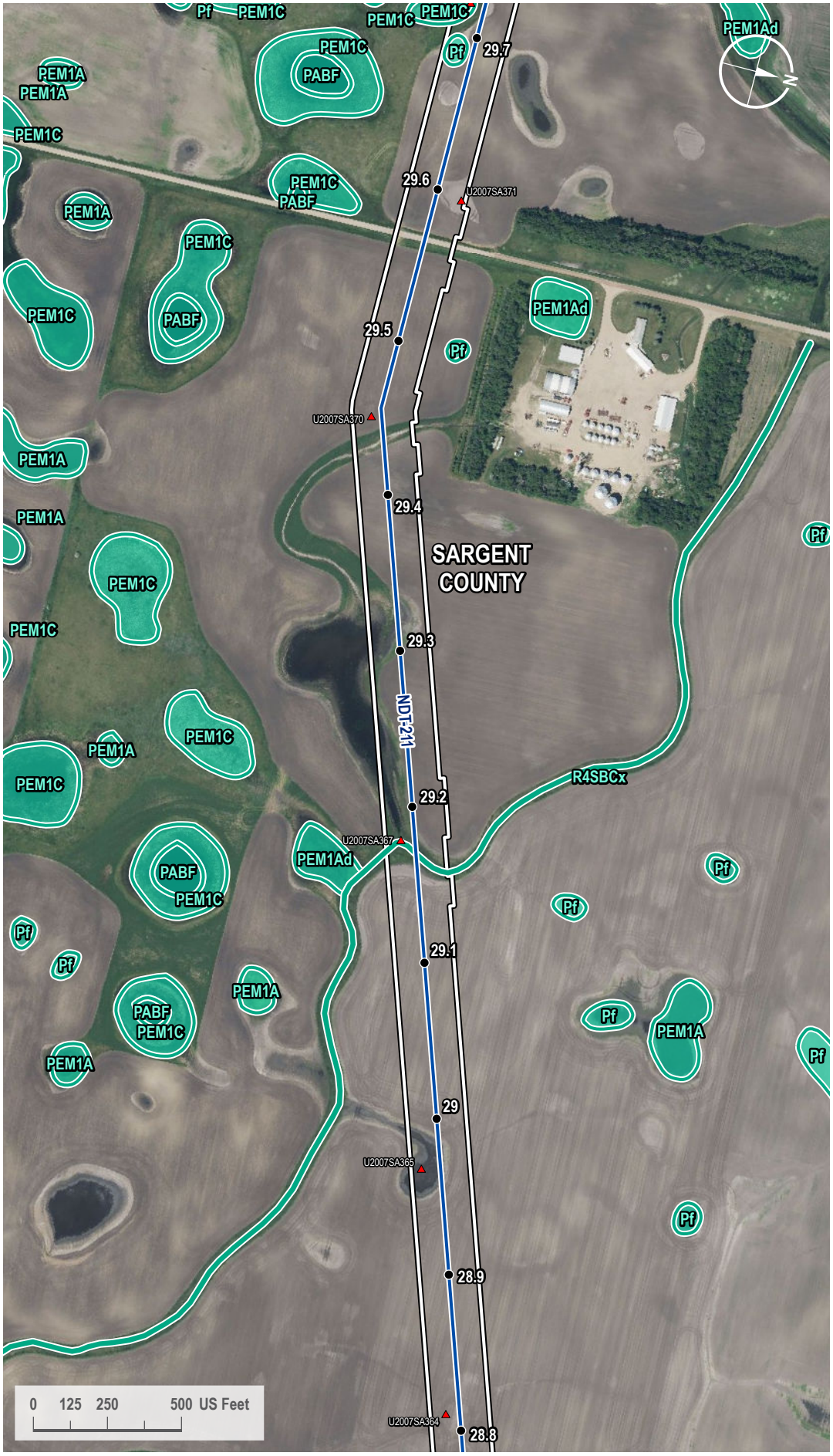

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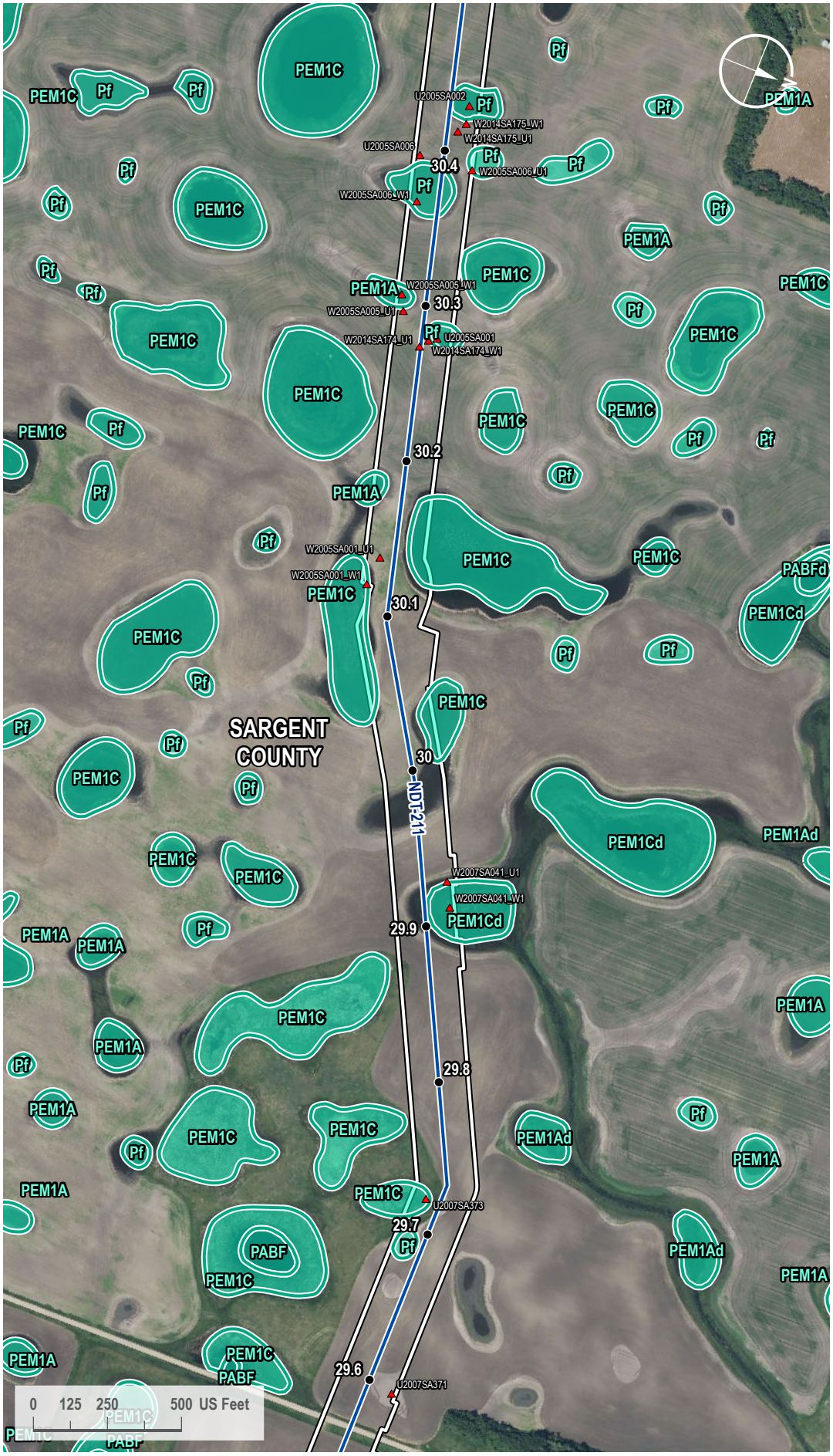

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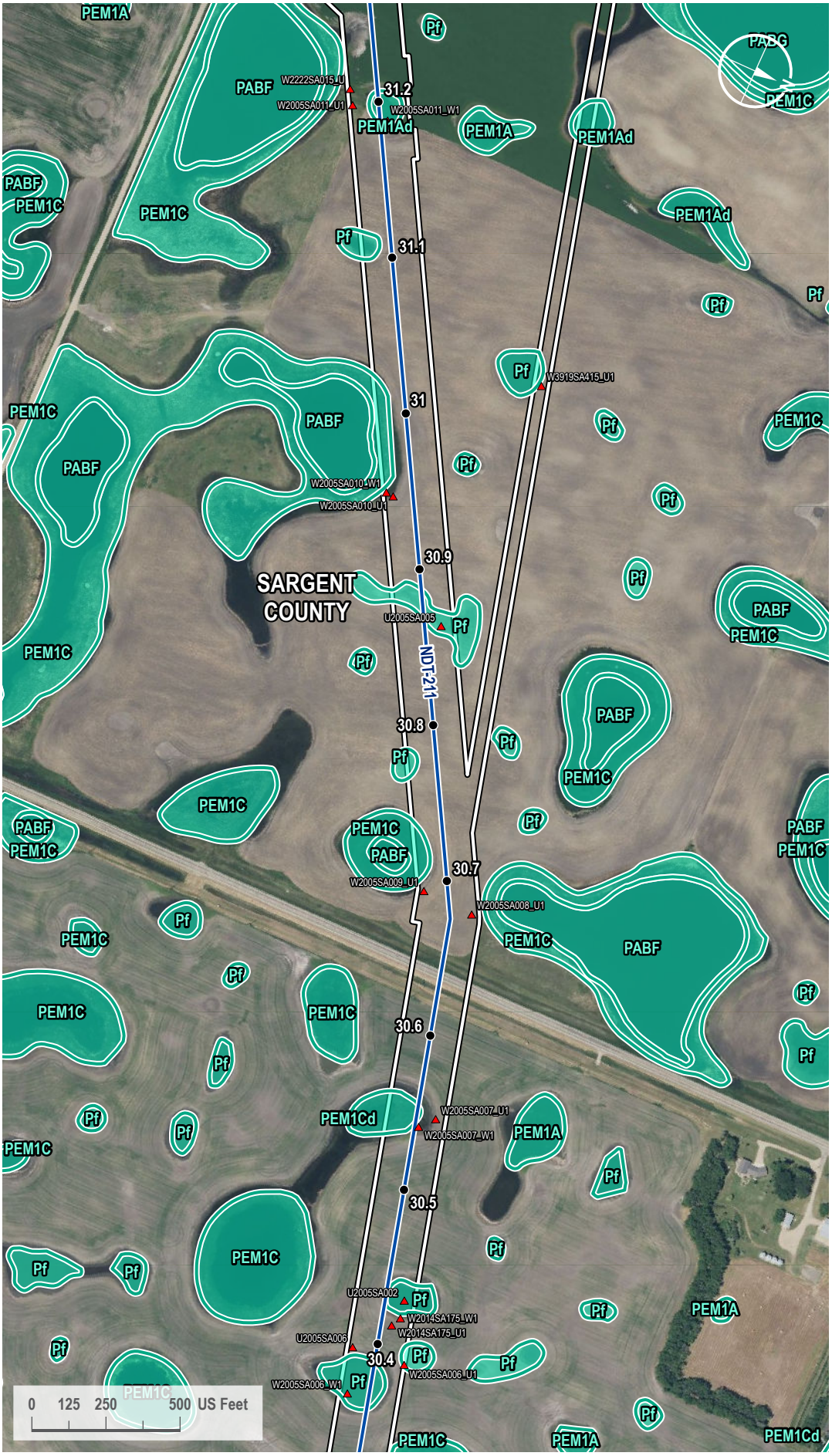

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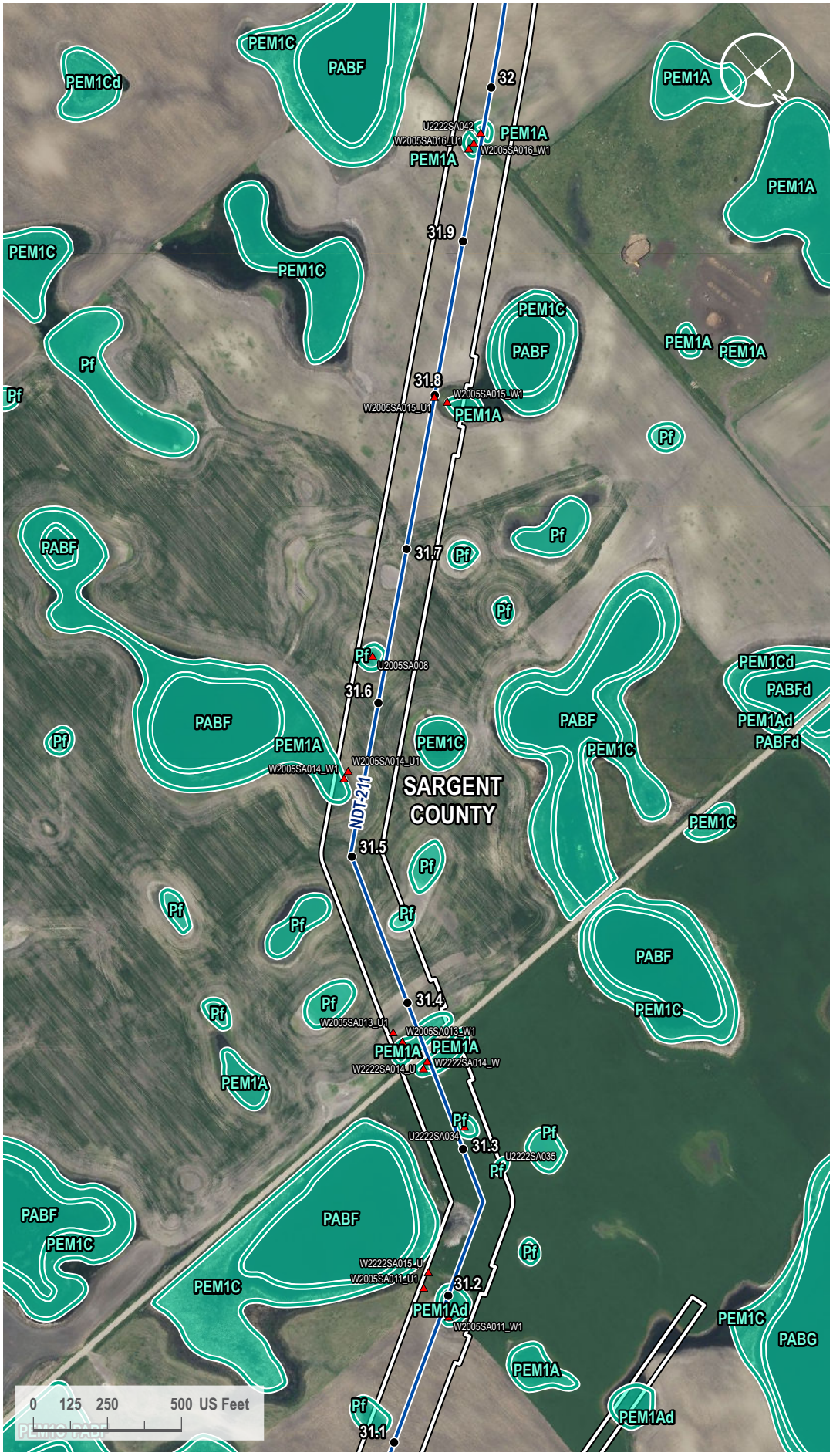

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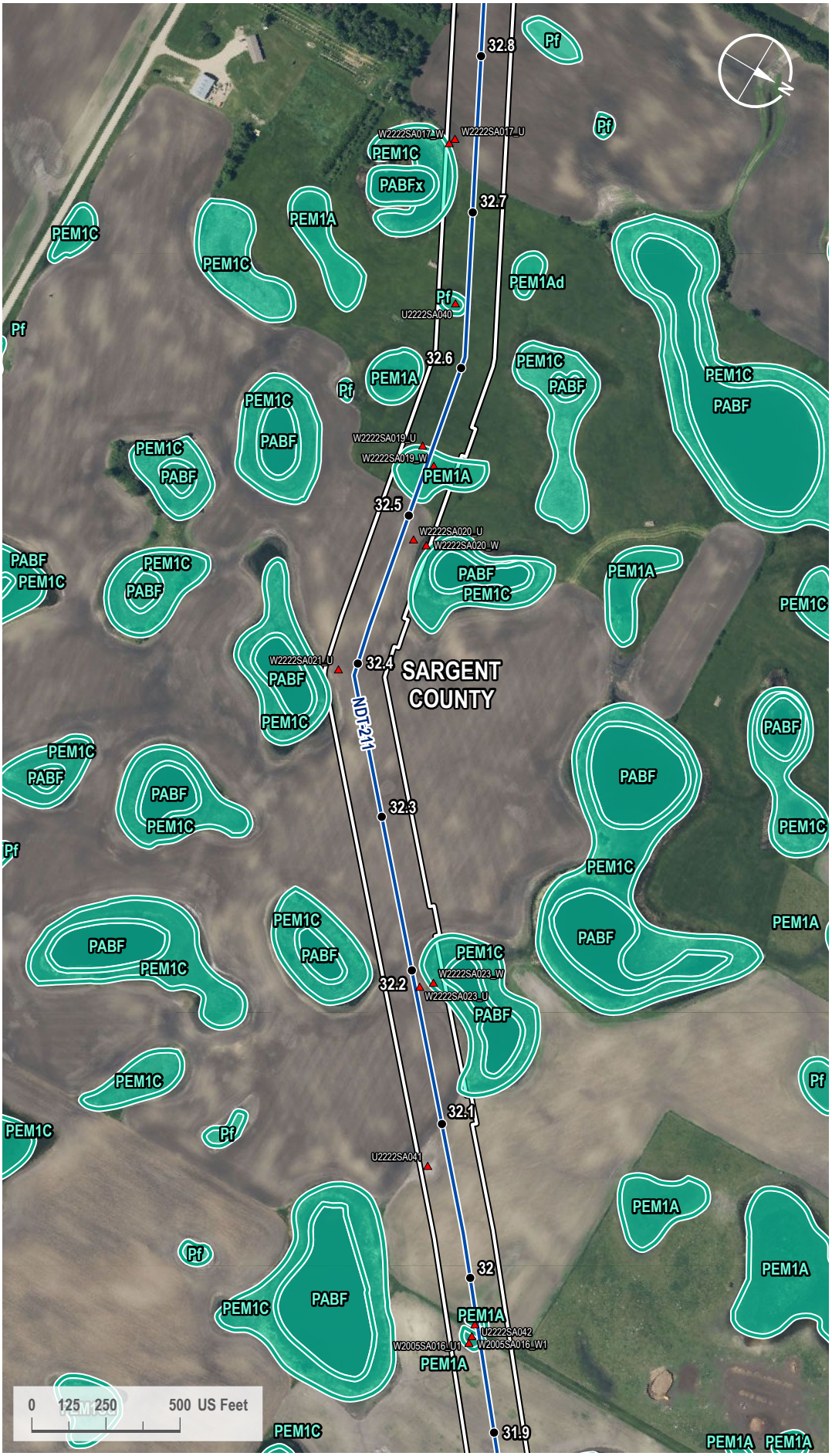

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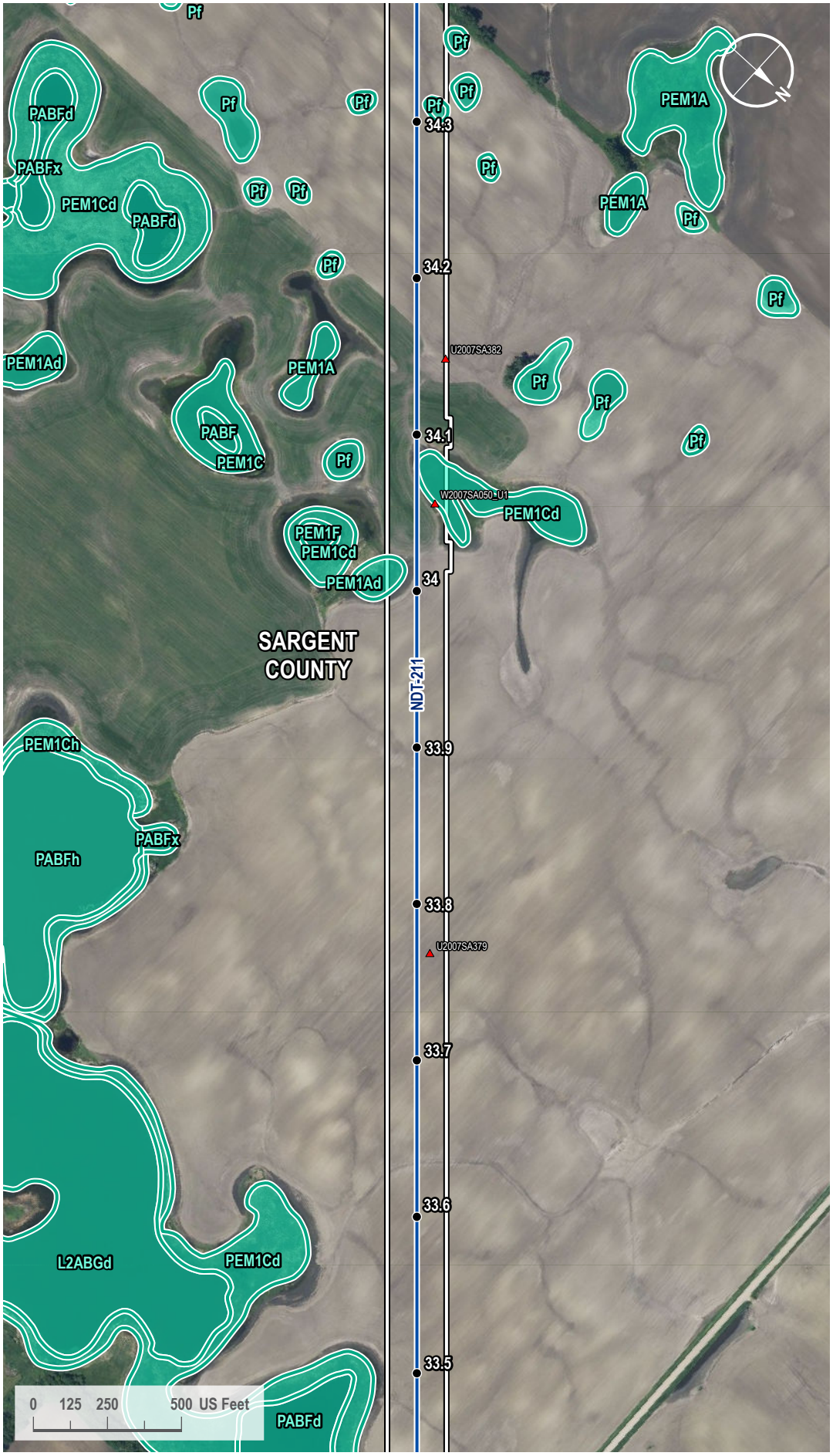

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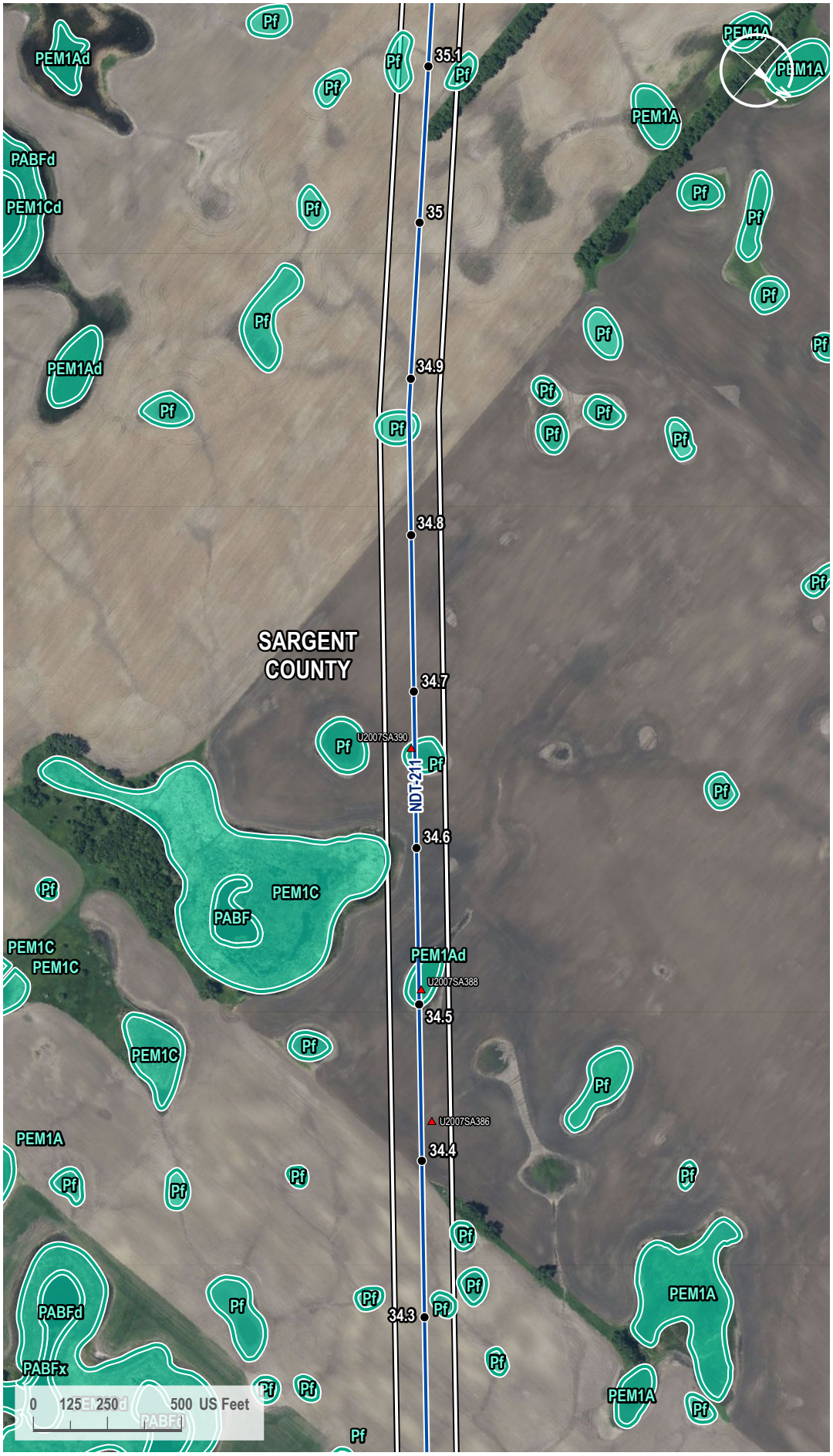

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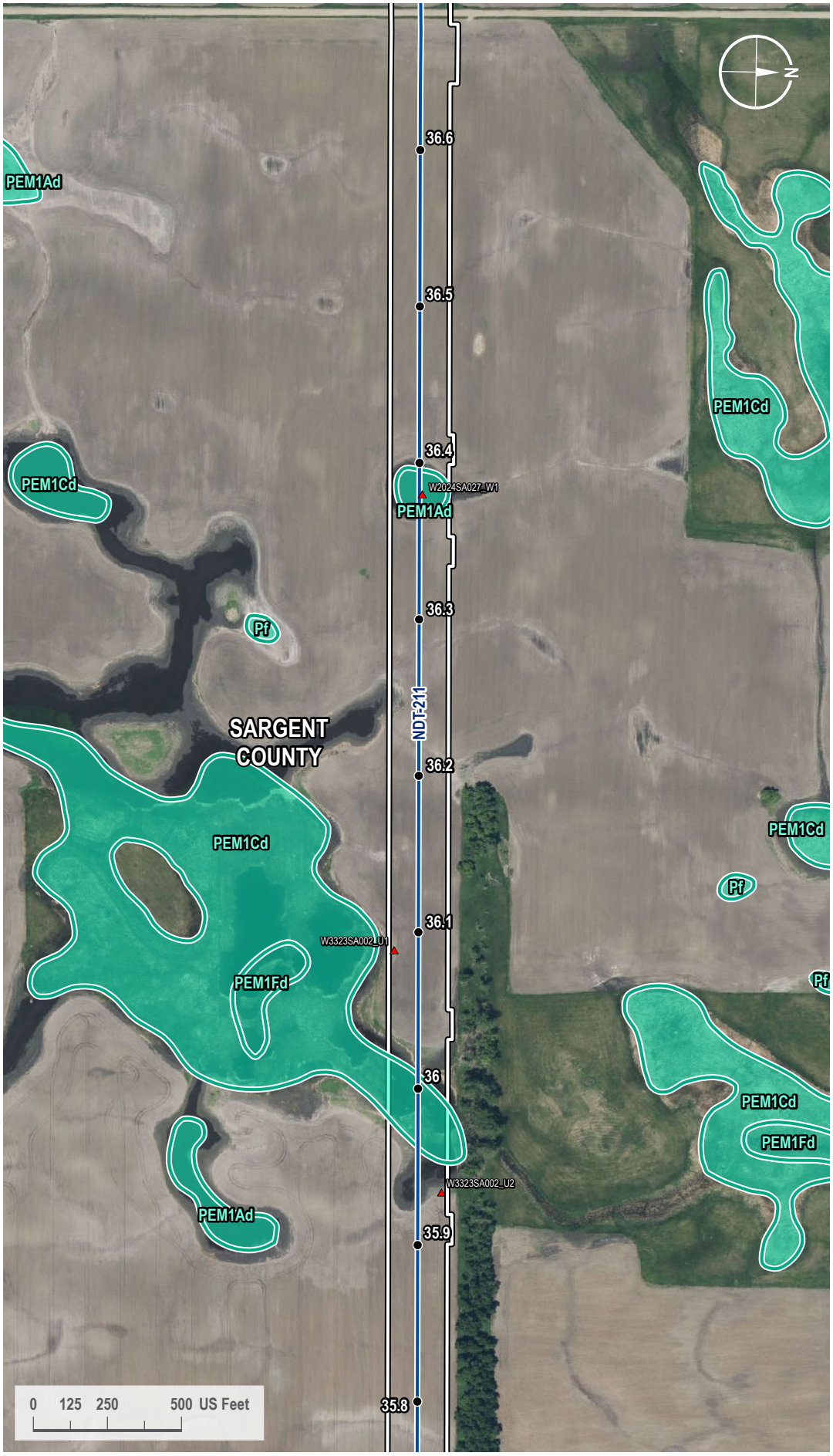

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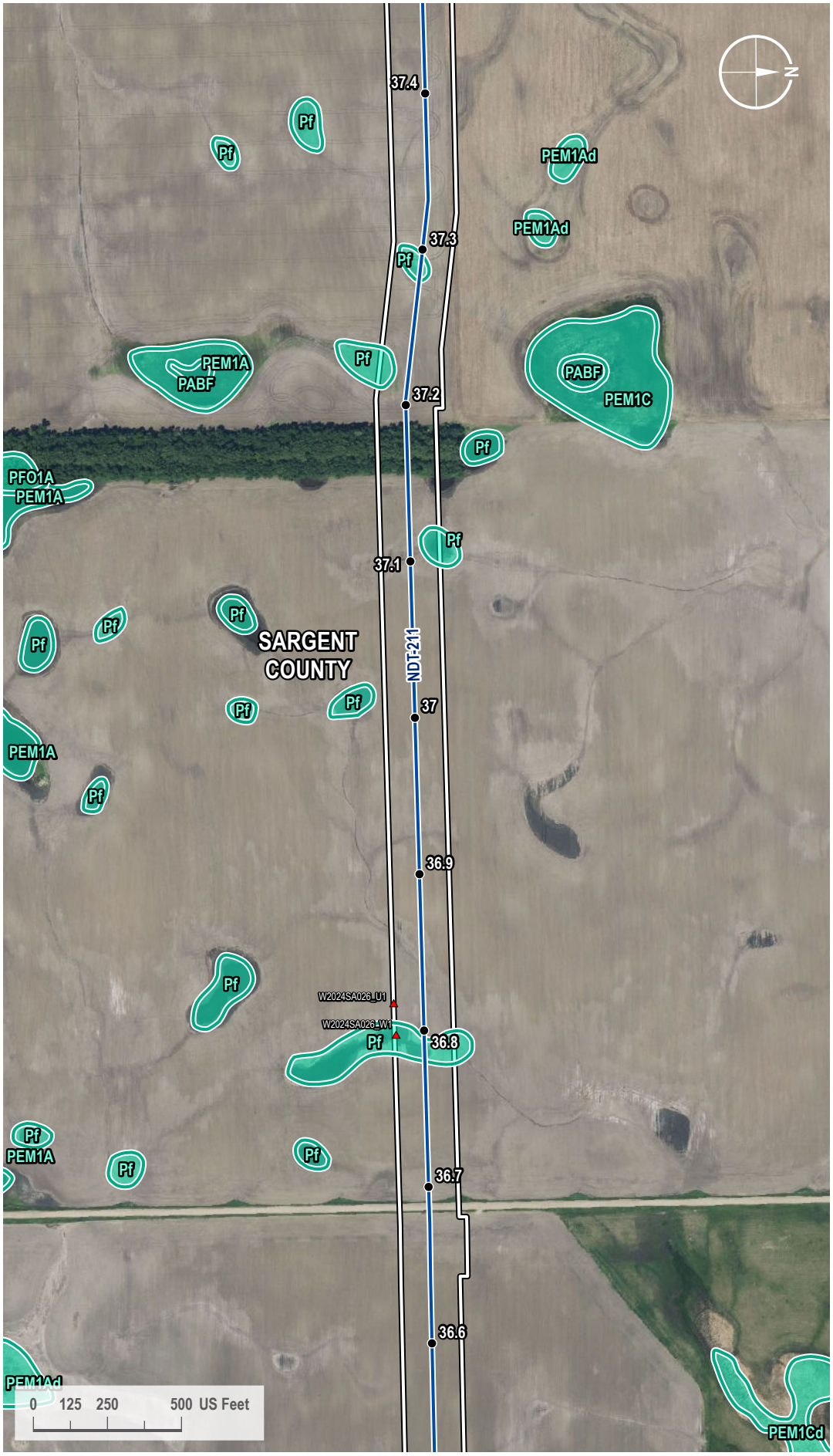

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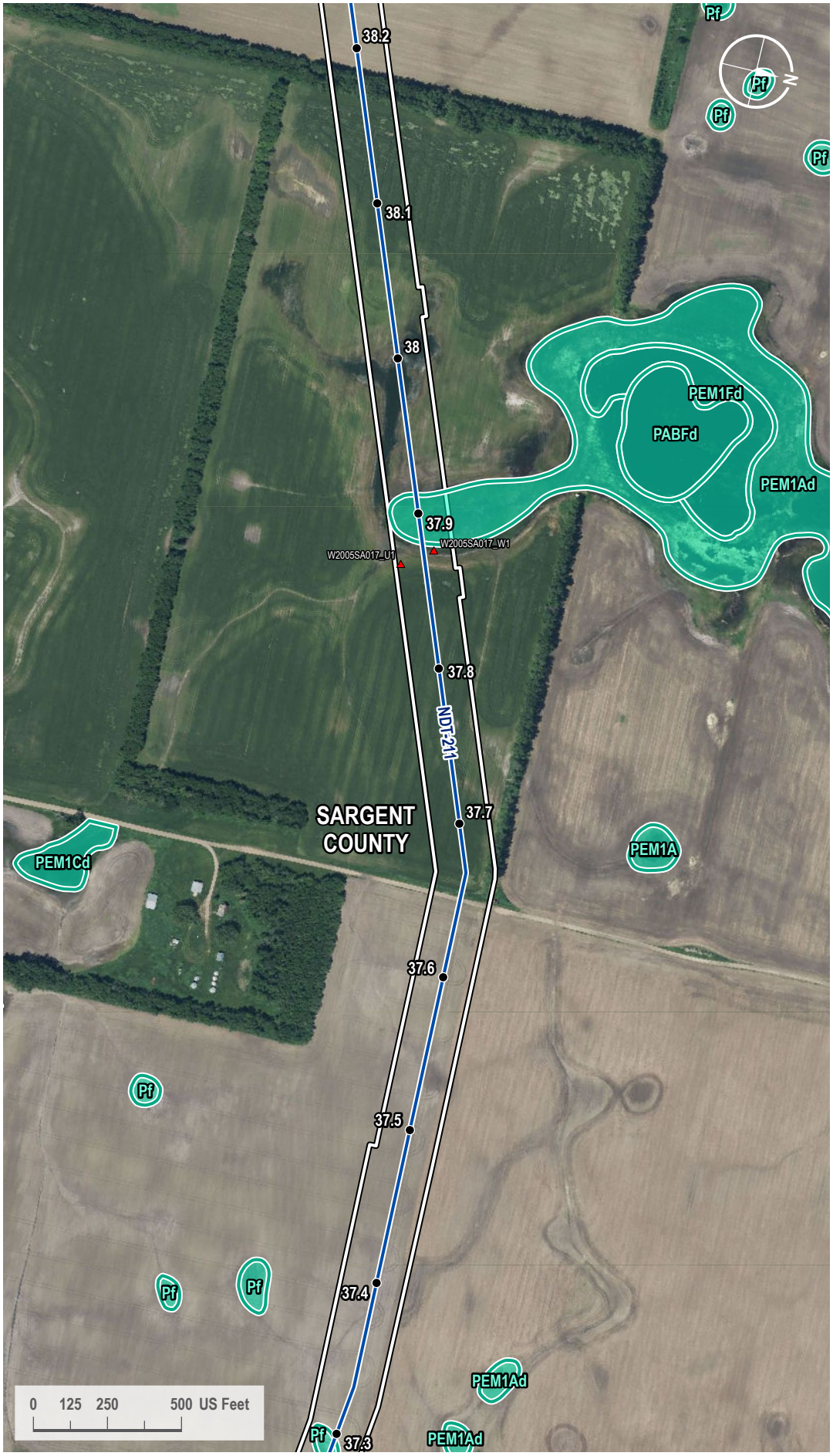

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Figure Title:
NWI Map

Figure Number:
Appendix A-4

Scale	Projection
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet	Drawing Number
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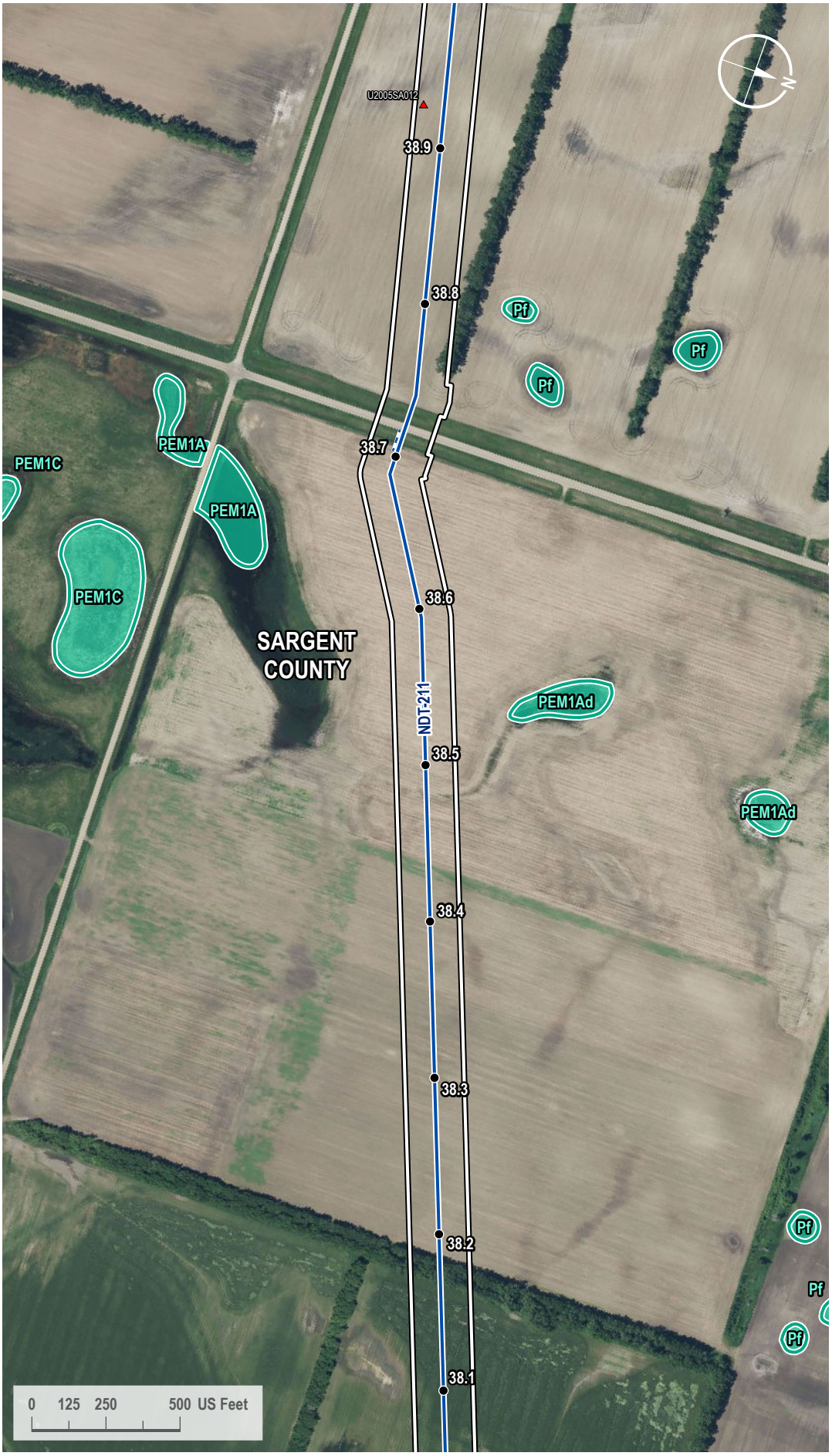

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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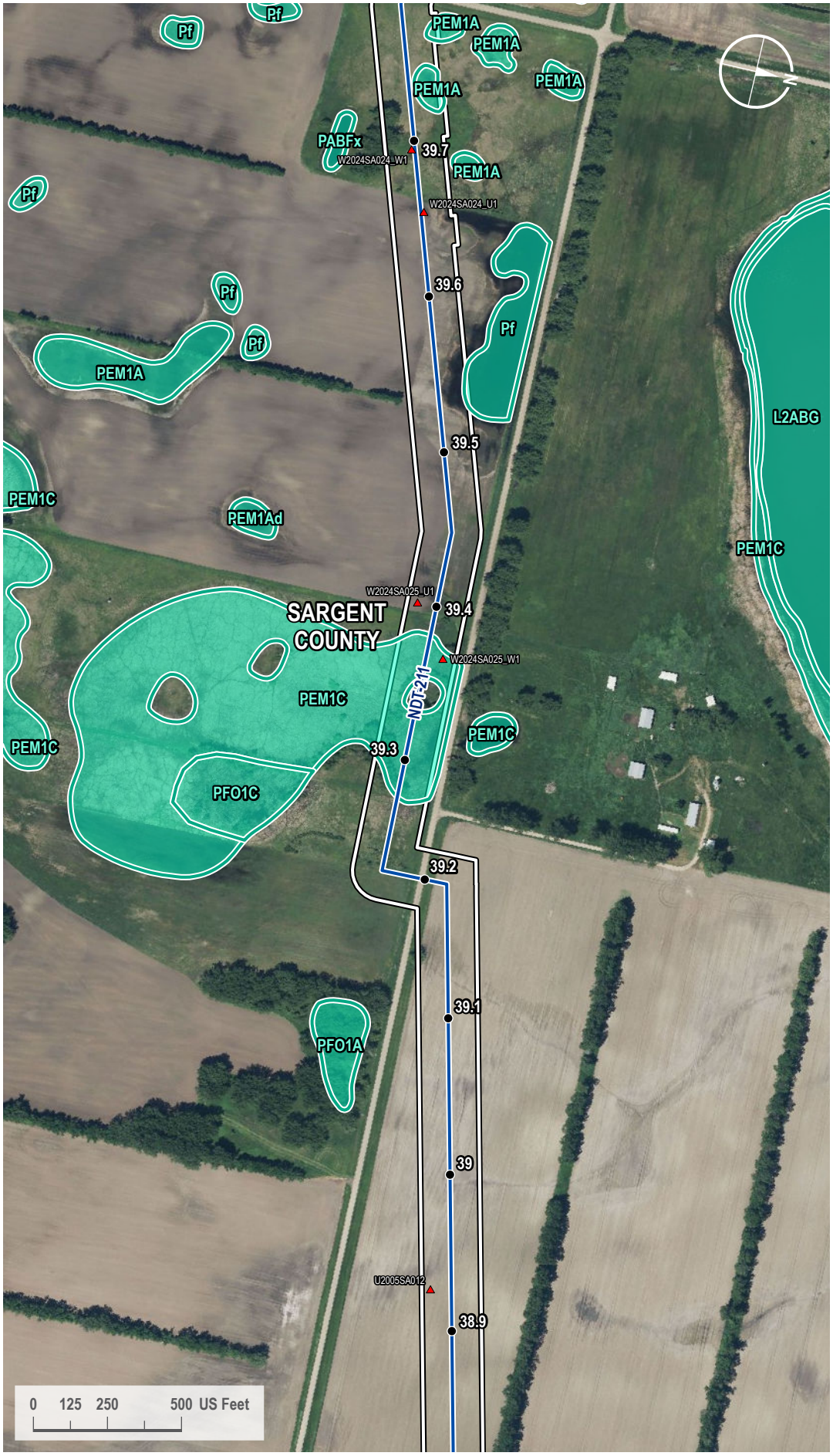

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
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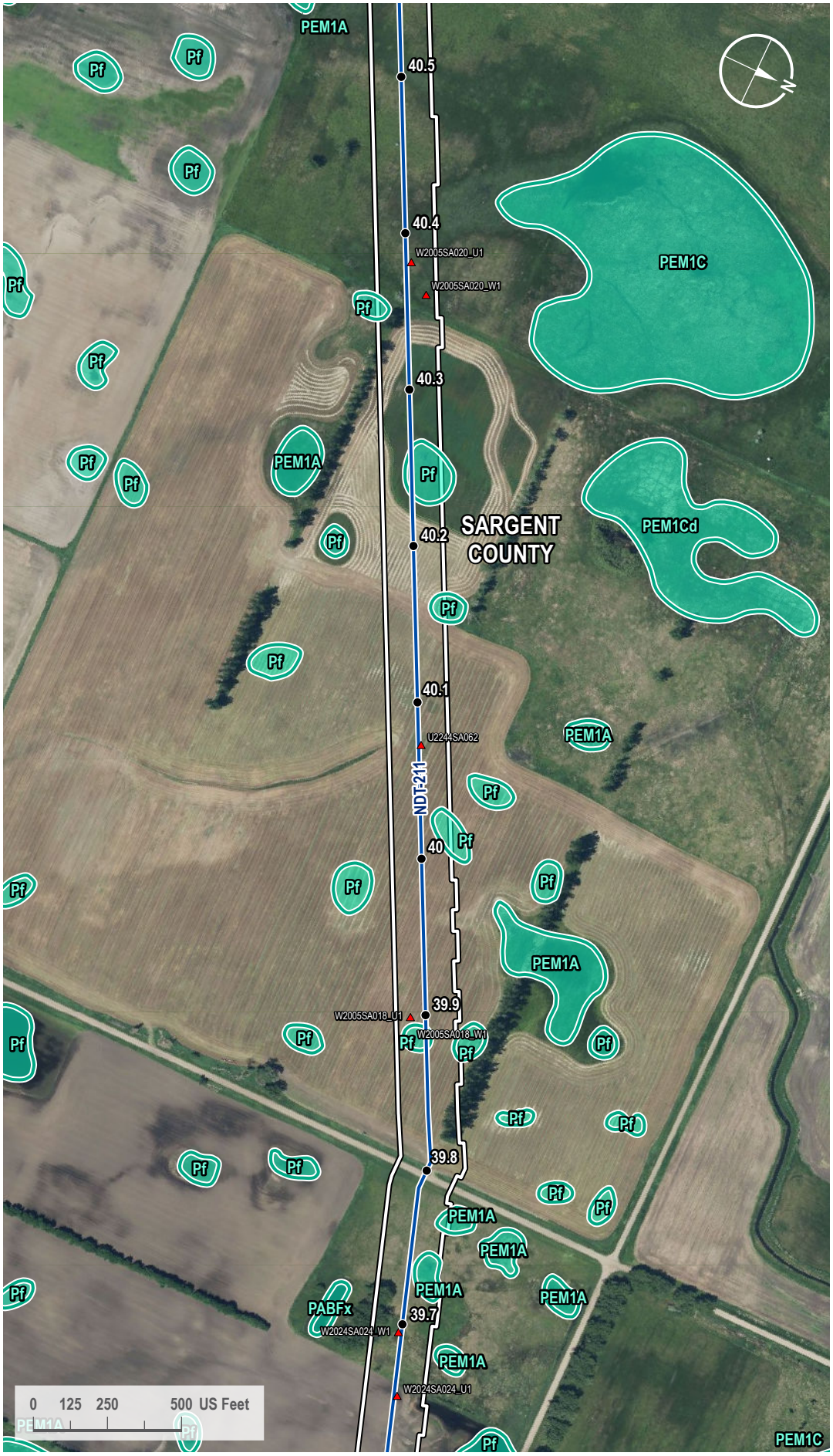

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
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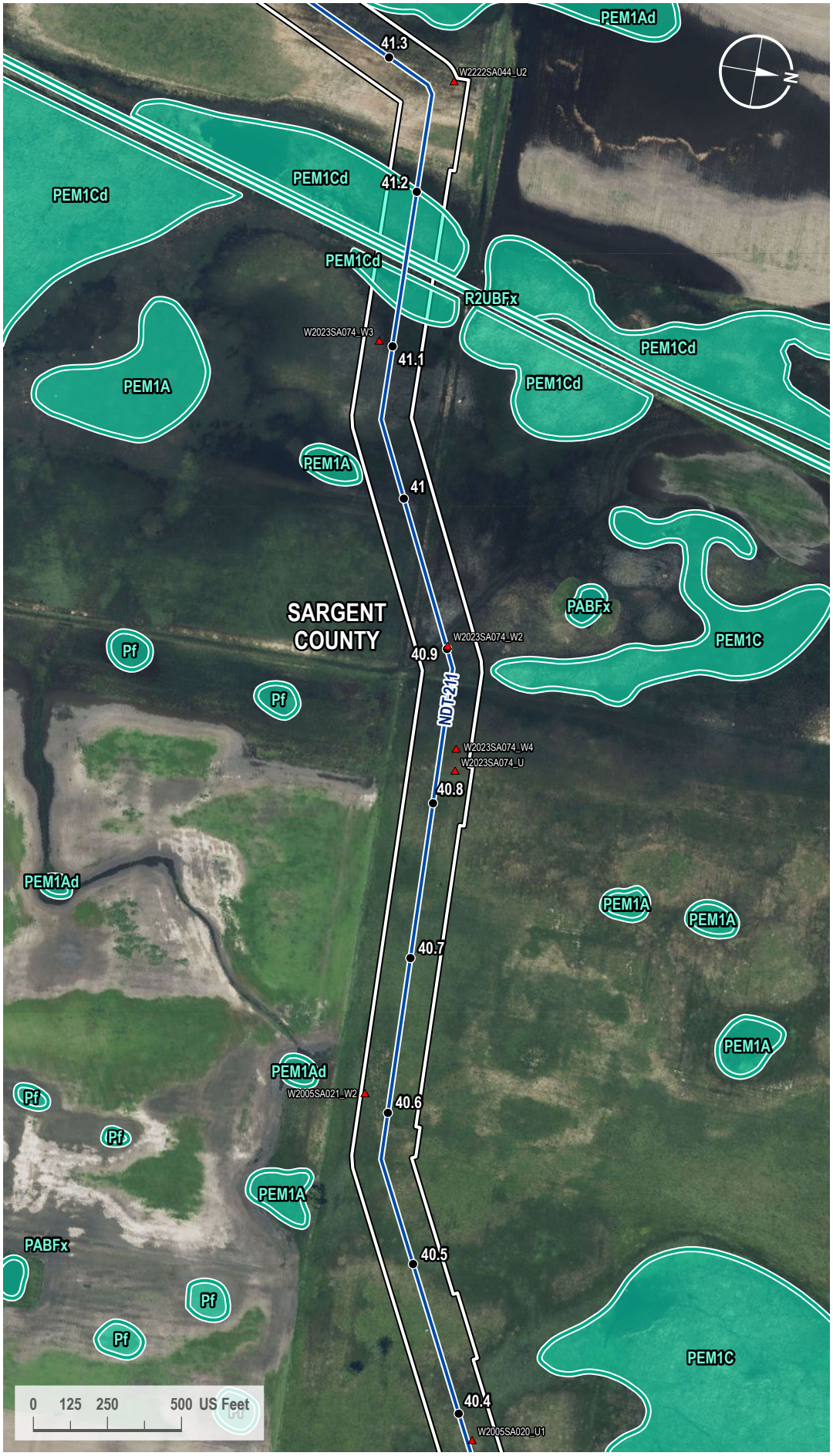

VICINITY MAP



LEGEND

- Milepost
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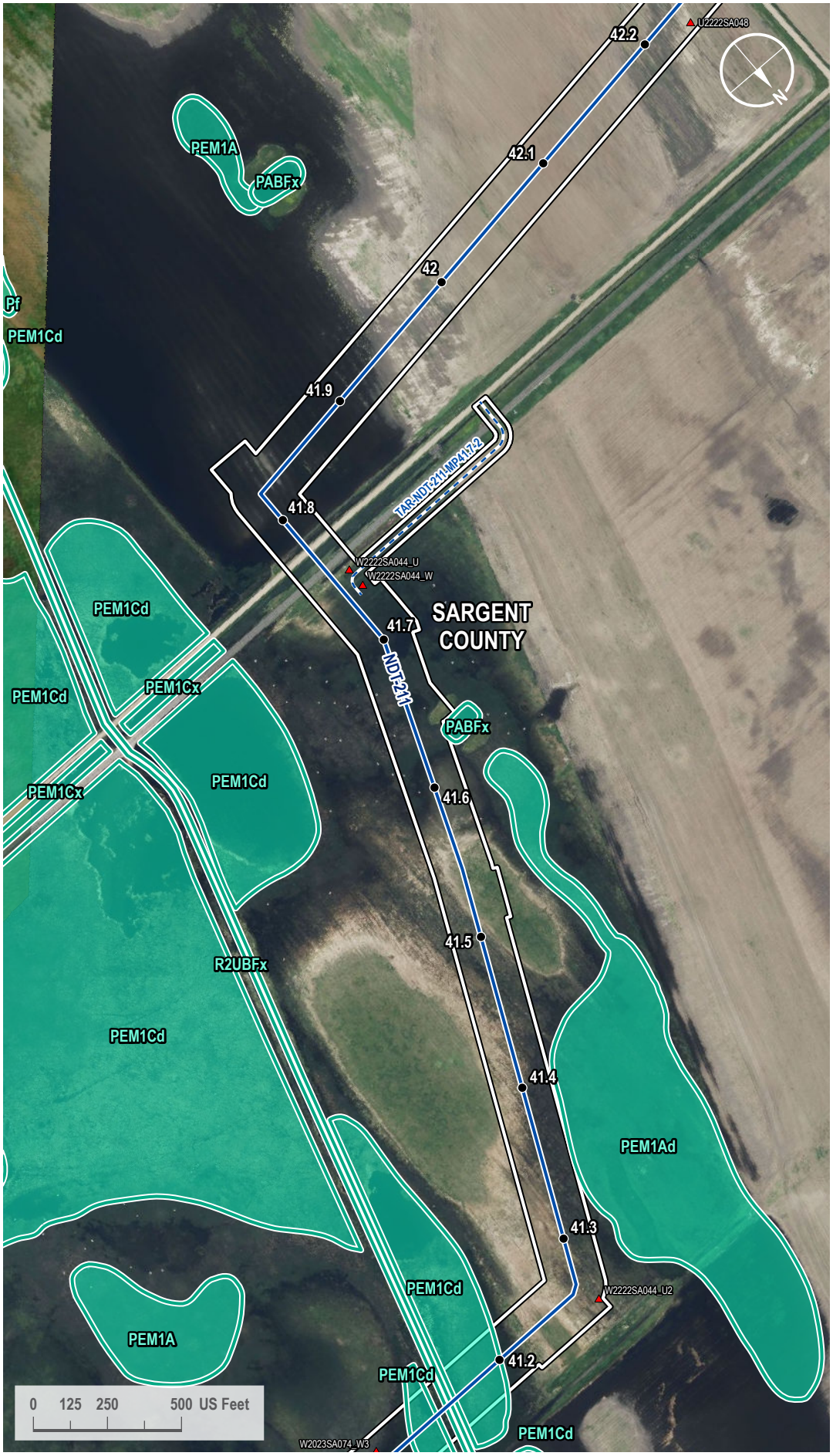

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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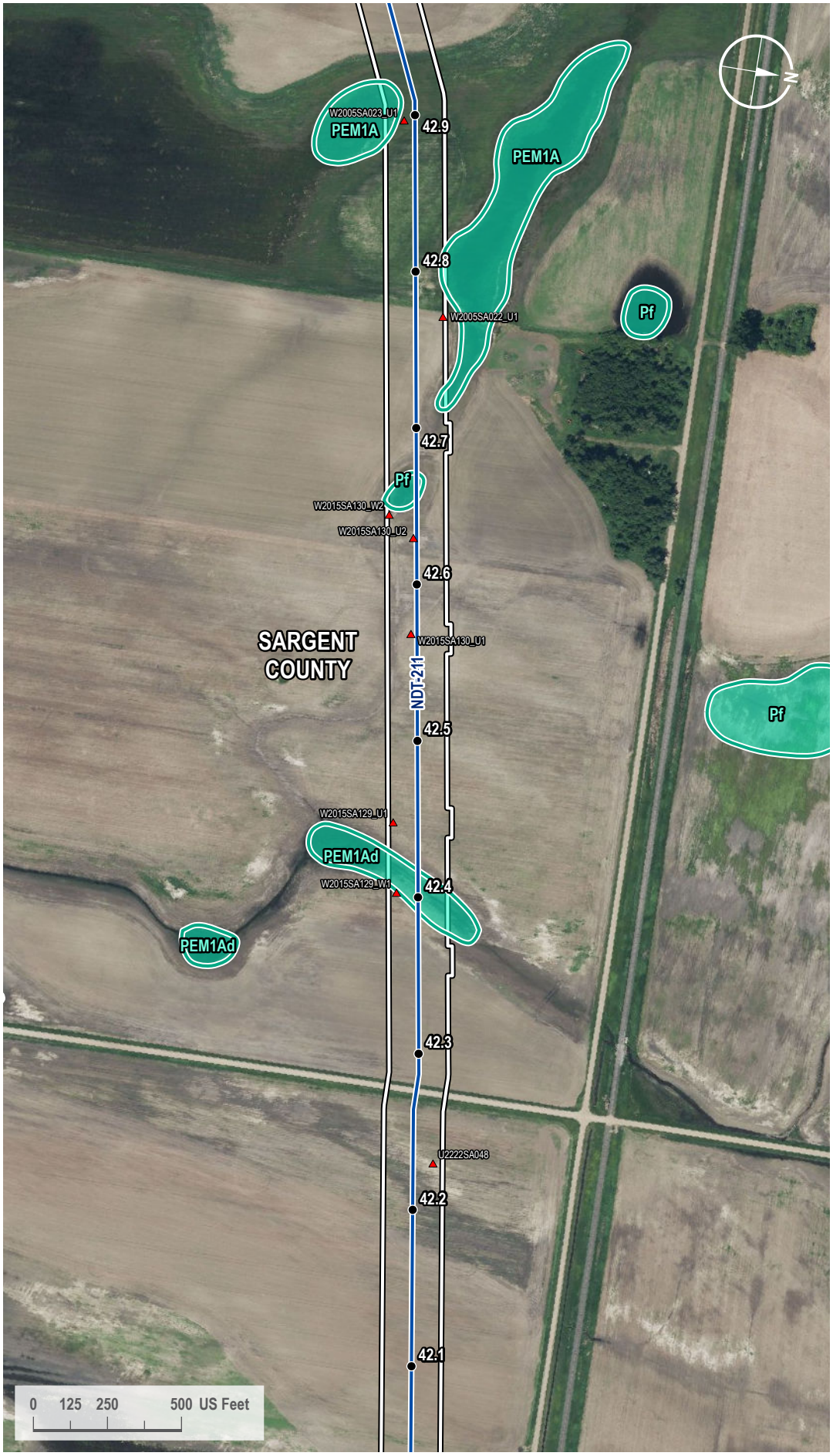

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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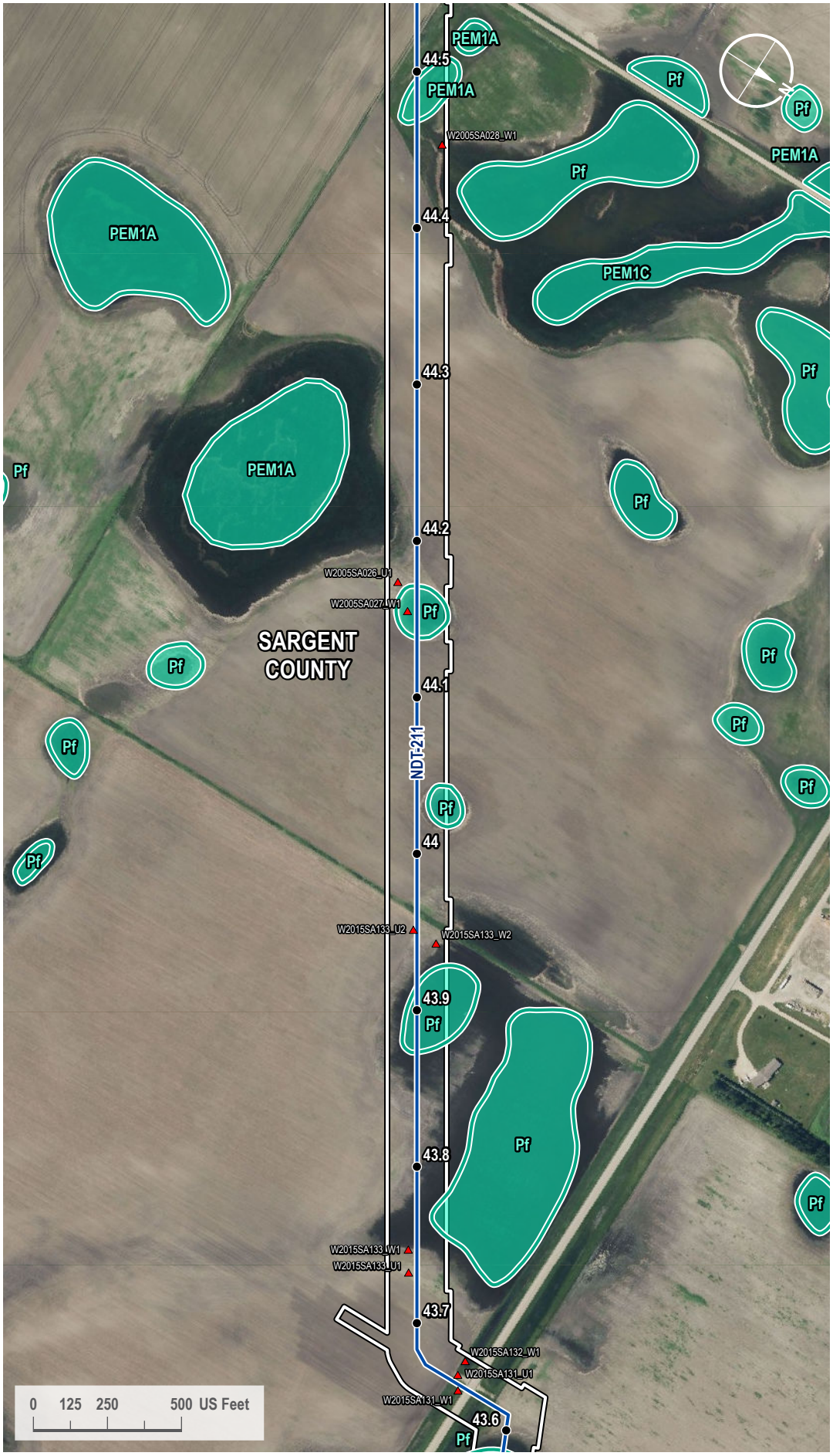

VICINITY MAP



LEGEND

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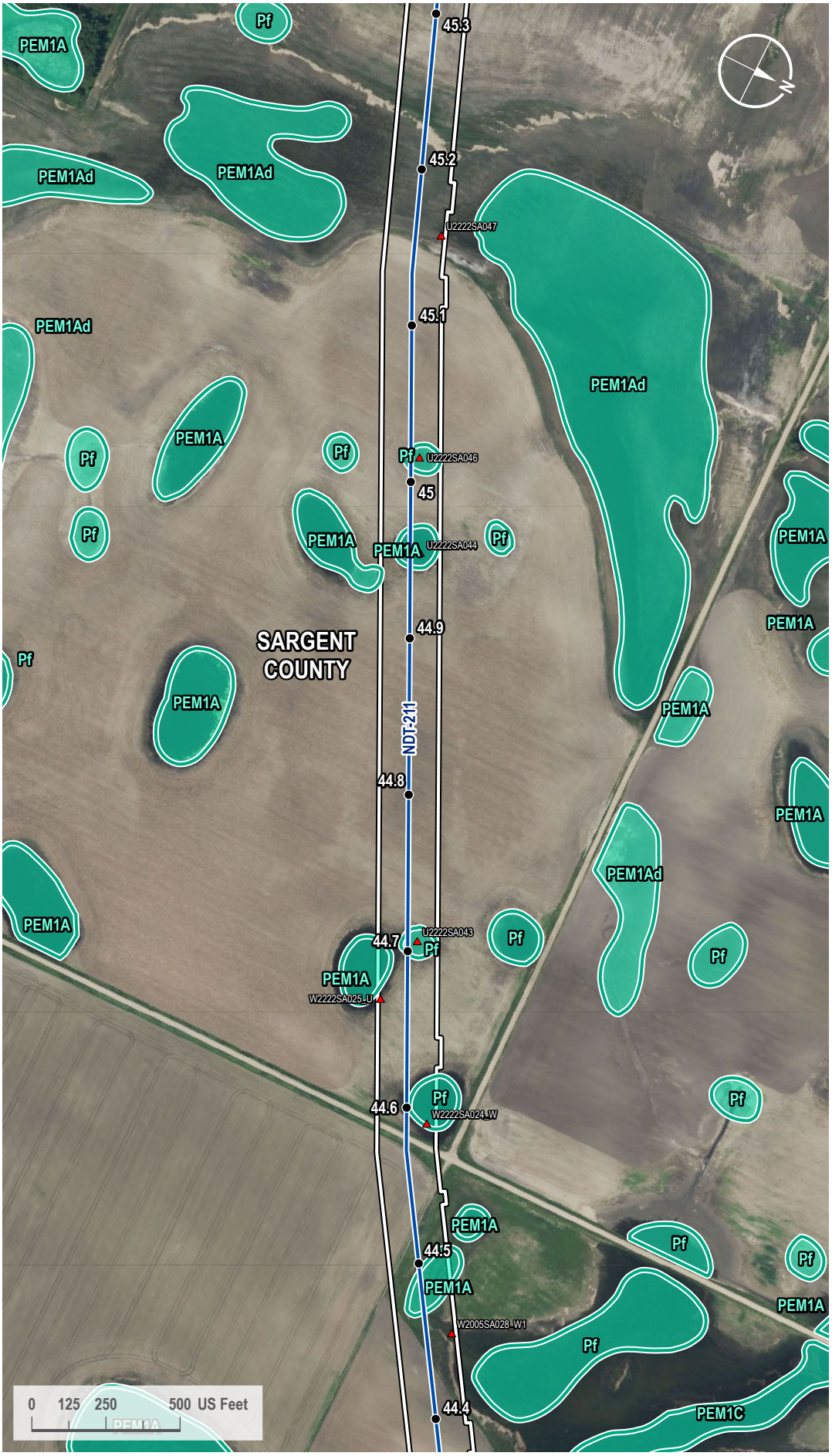

VICINITY MAP



LEGEND

- Milepost
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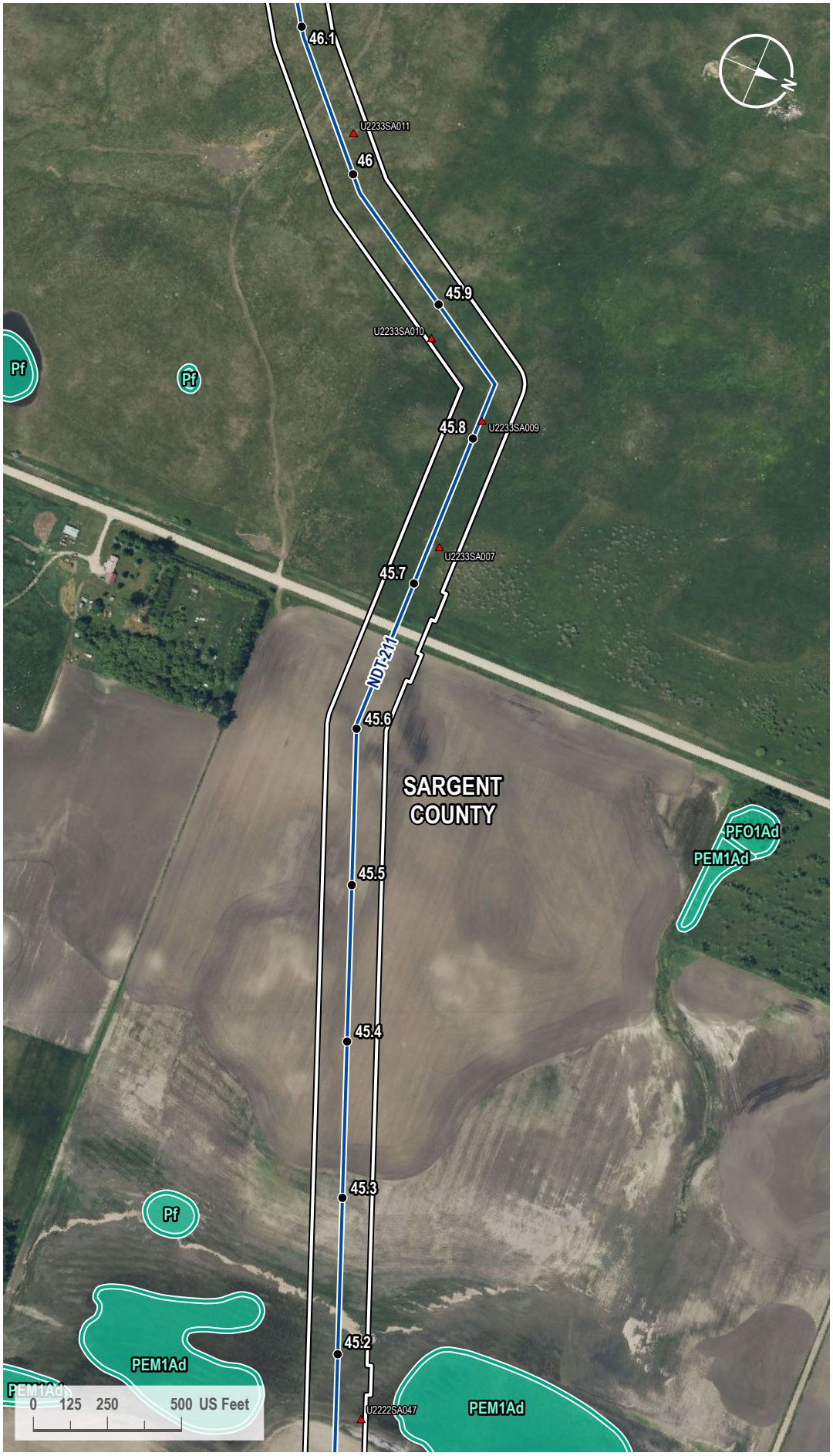

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
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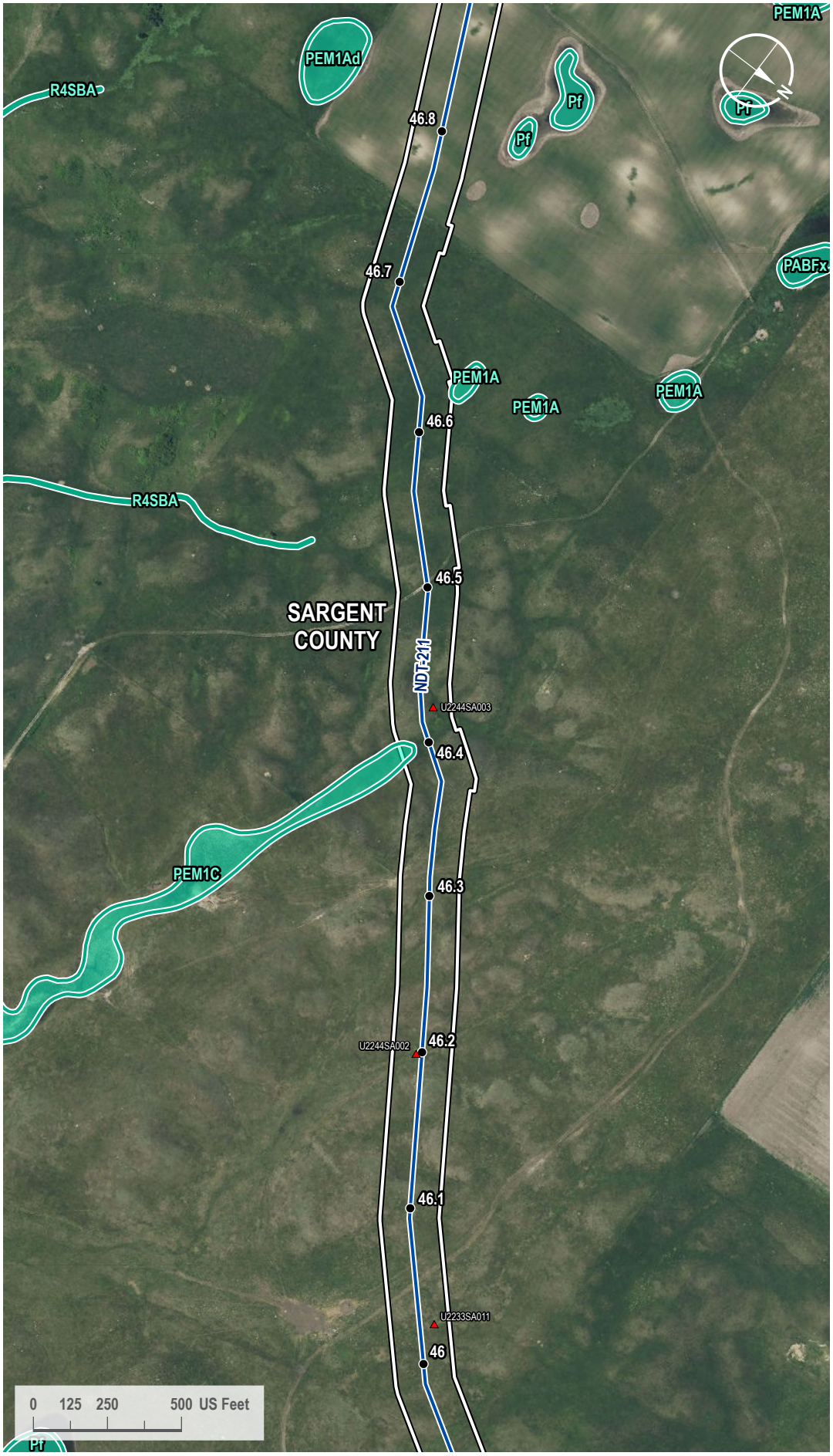

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
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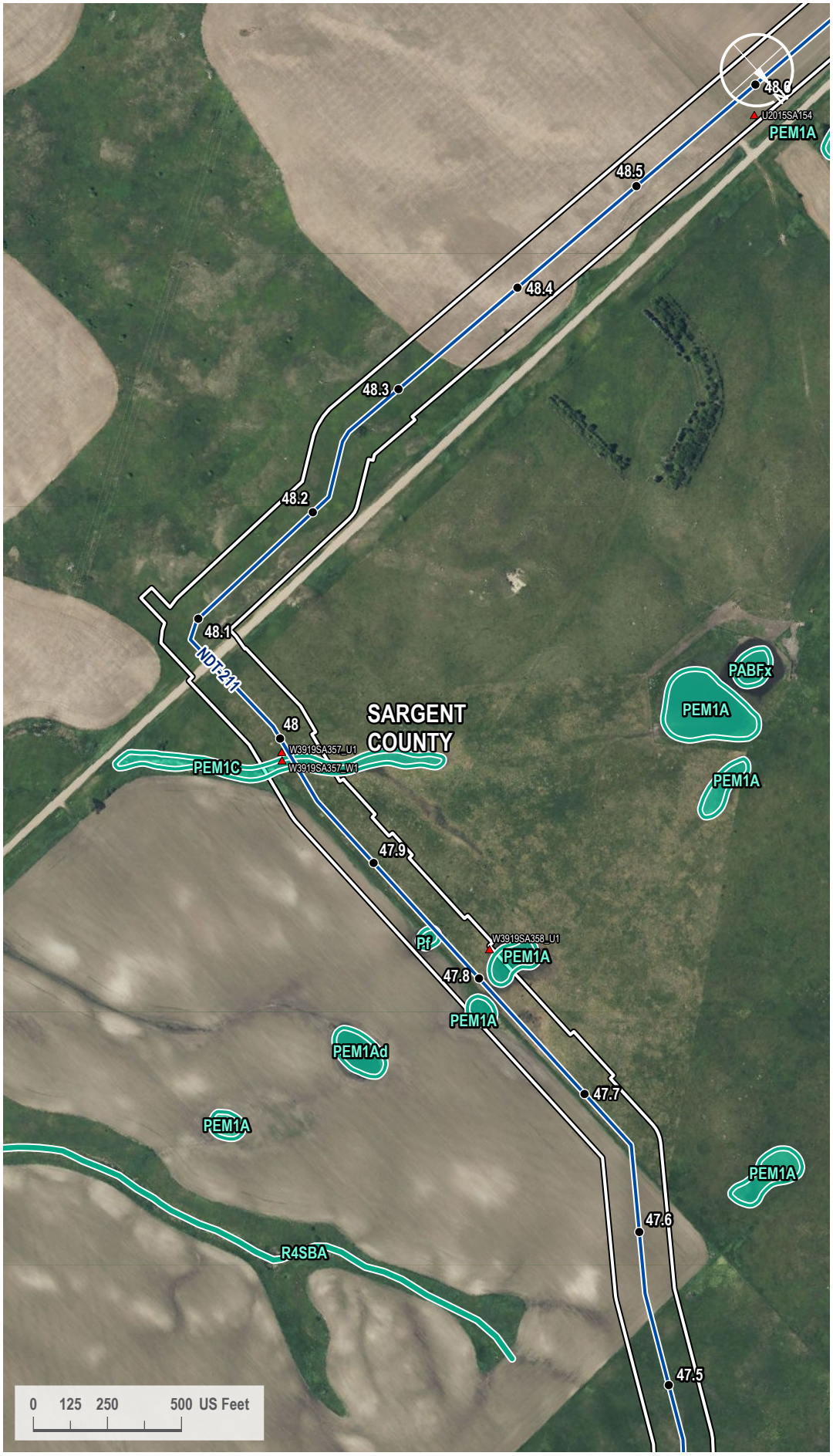

VICINITY MAP



LEGEND

- Milepost
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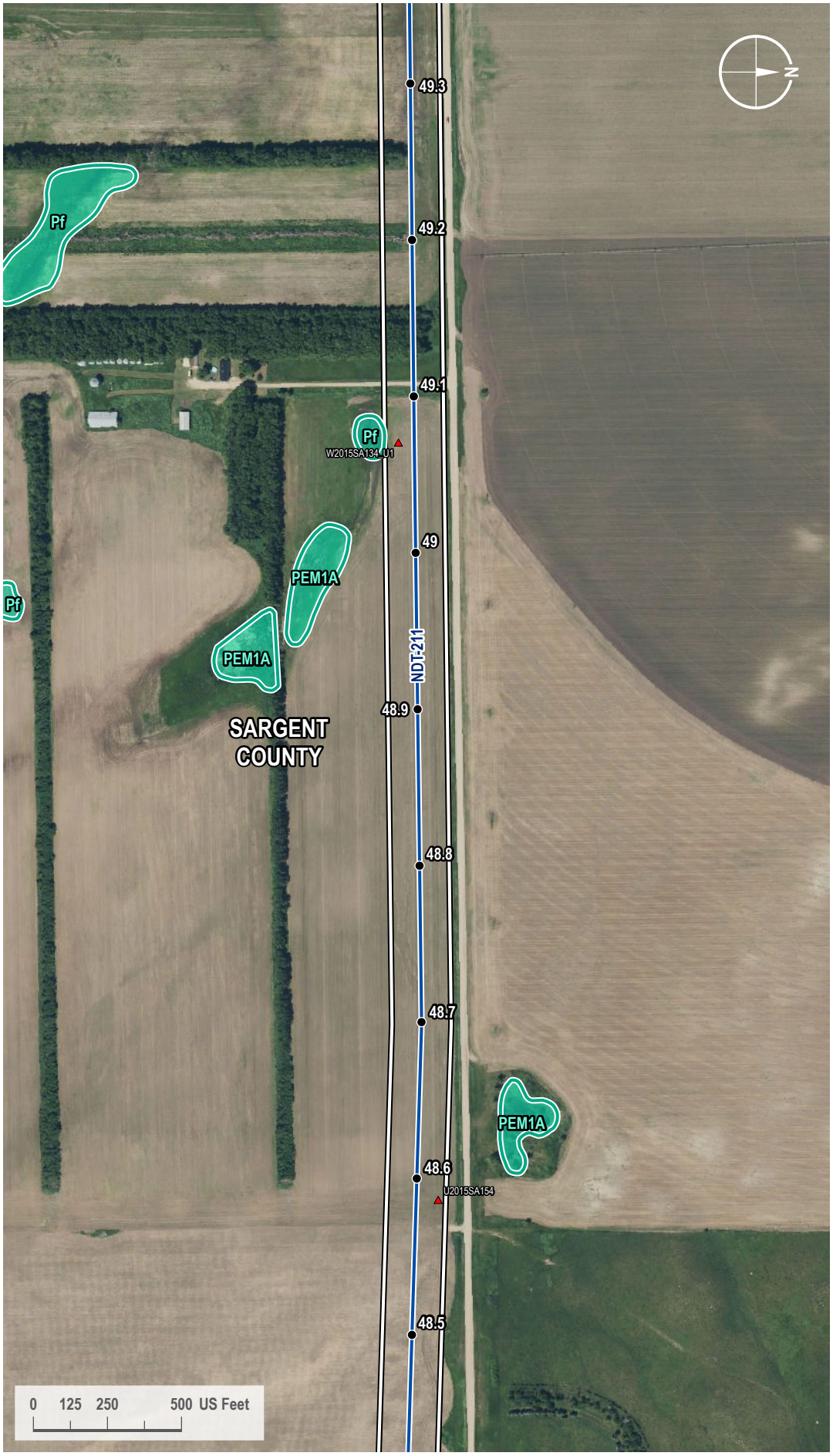

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
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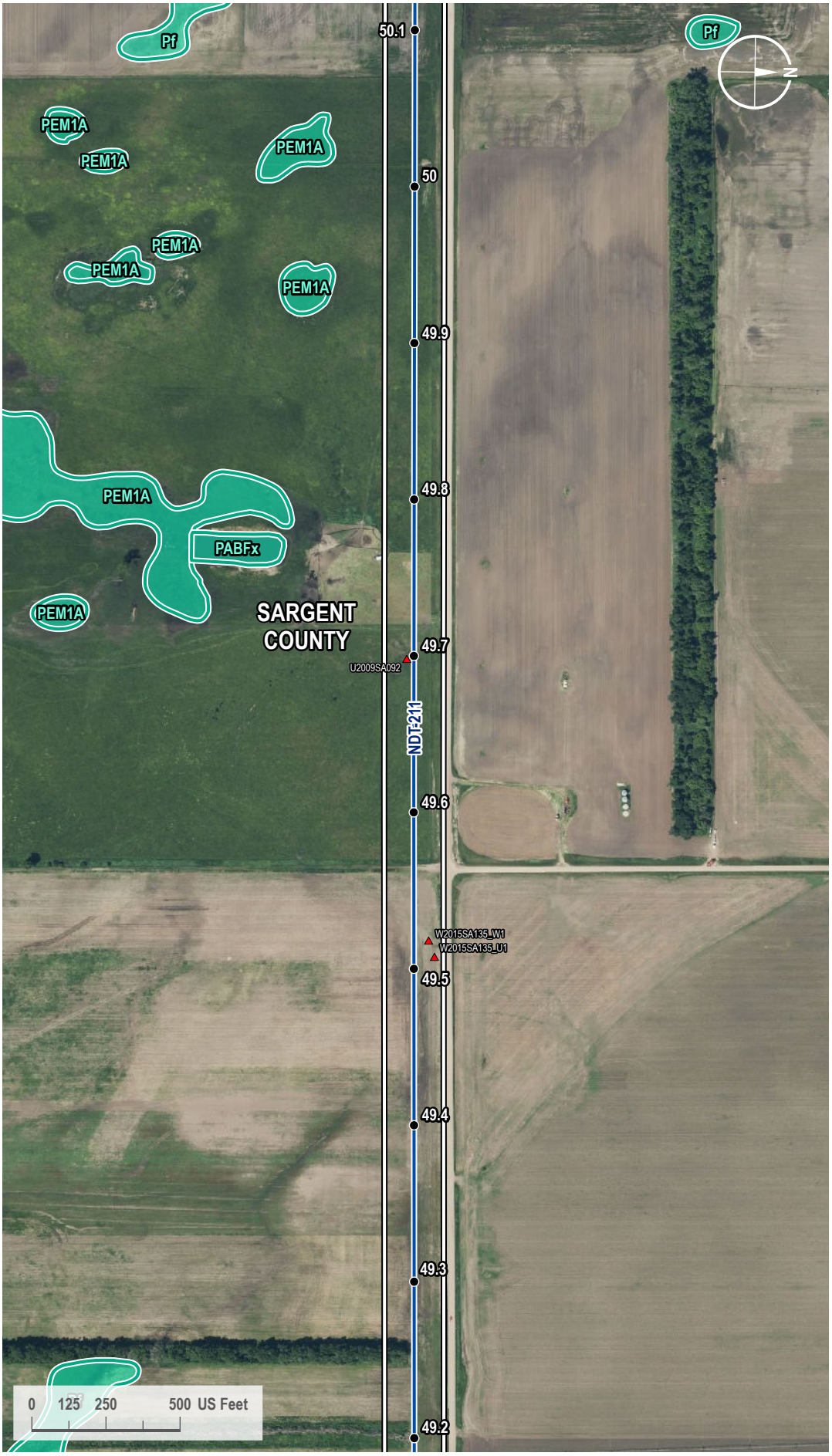

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
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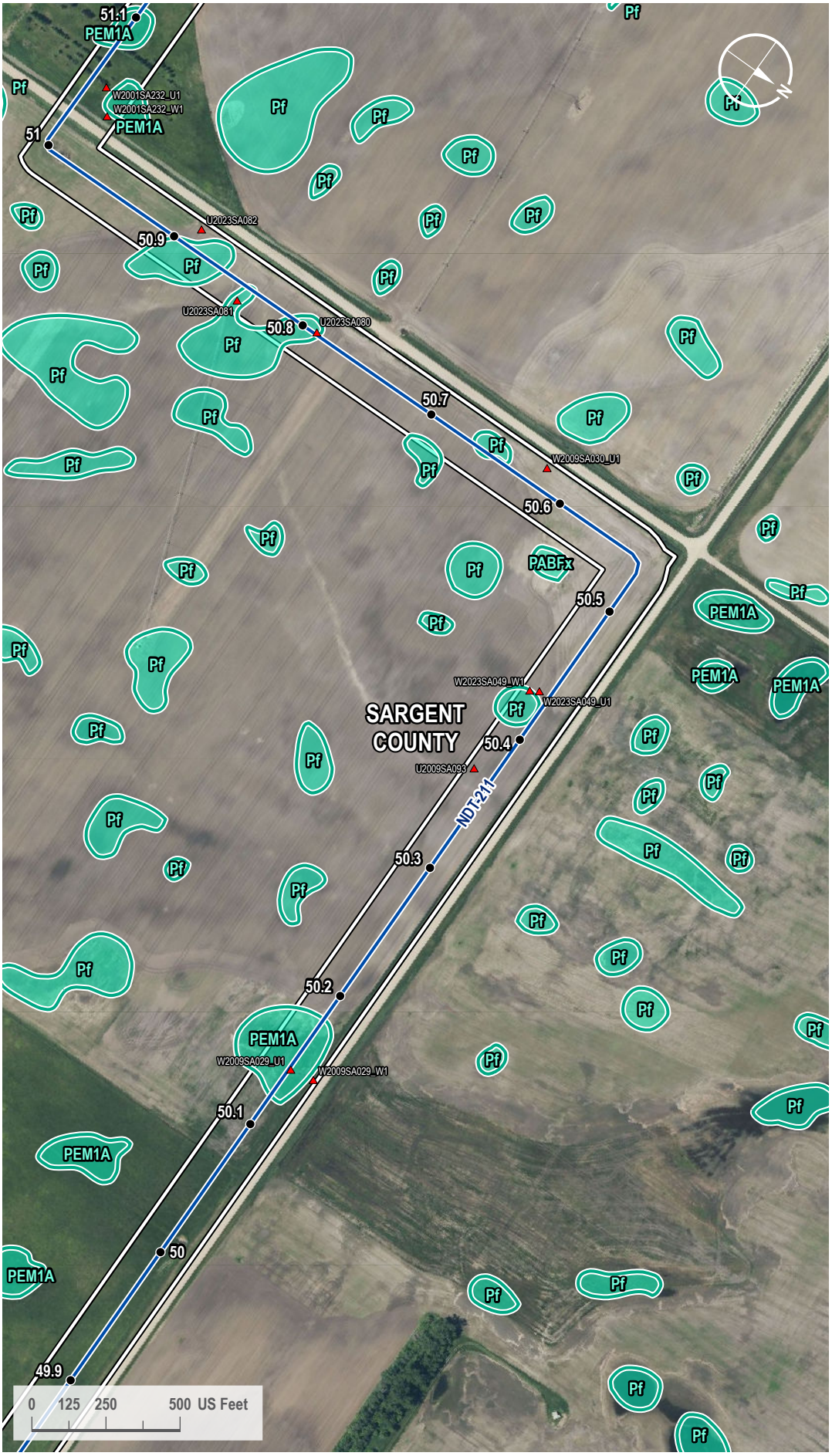

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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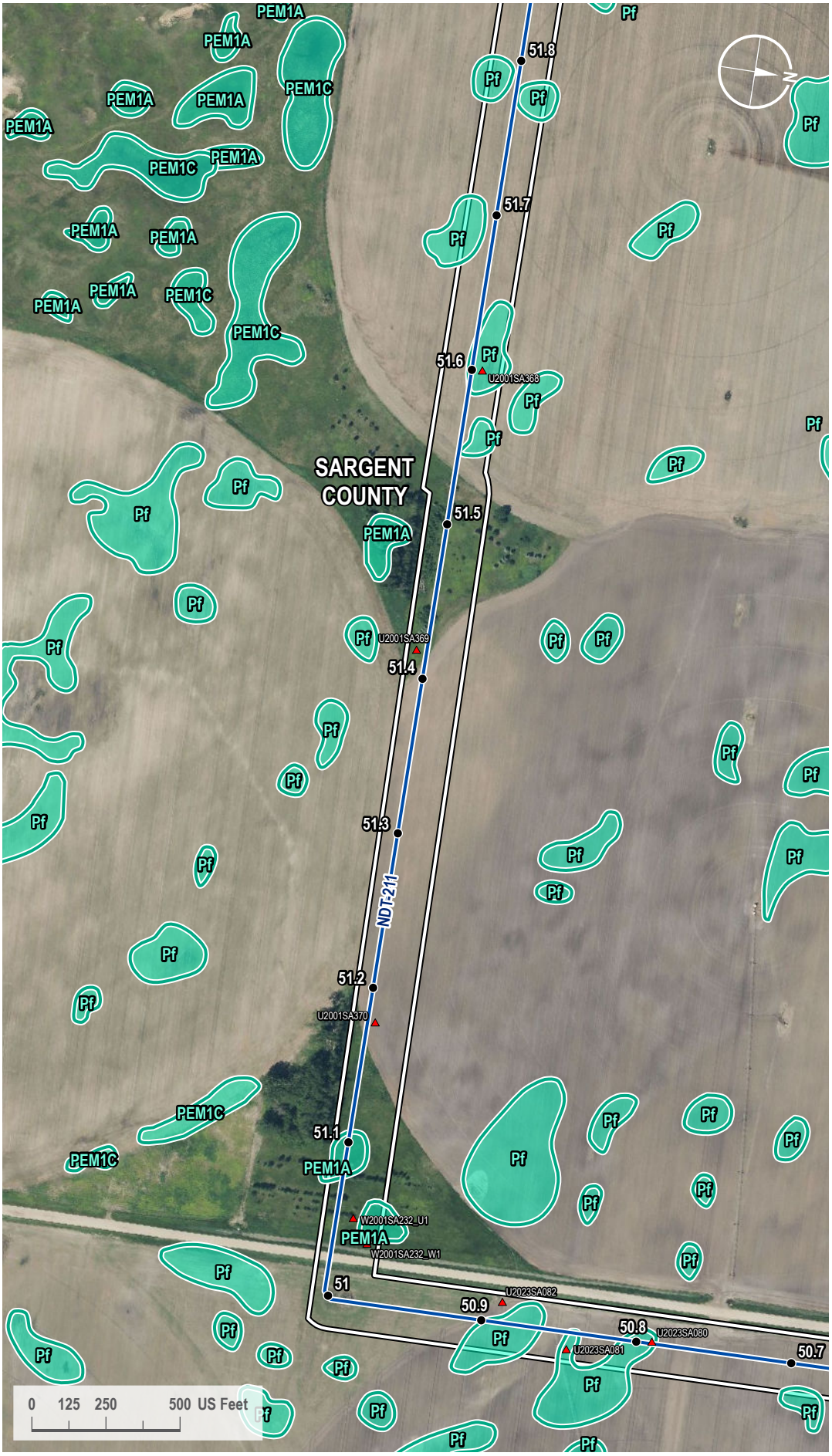

VICINITY MAP



LEGEND

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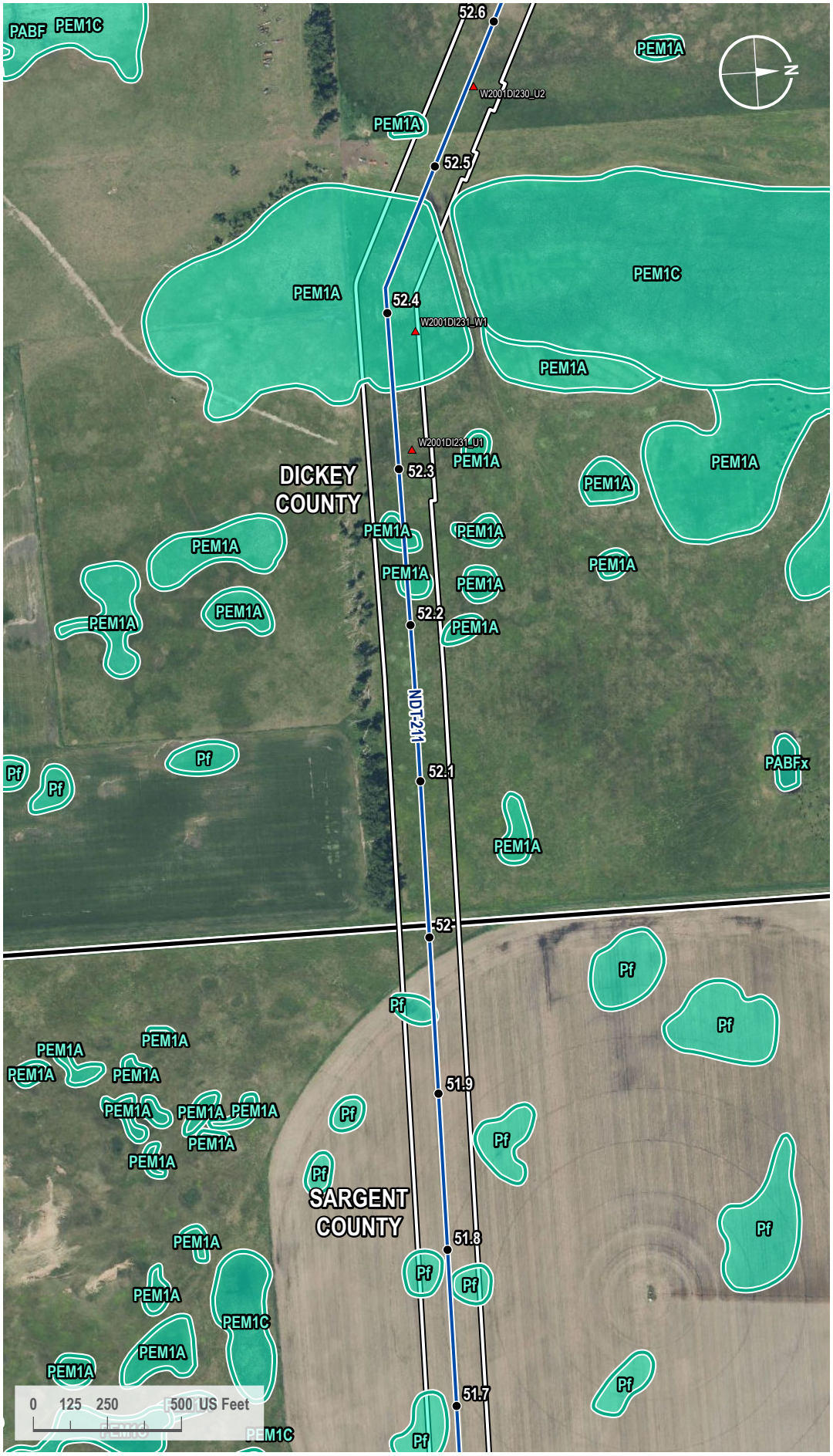

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- County Line
- 200-foot Siting Corridor
- NWI Wetland

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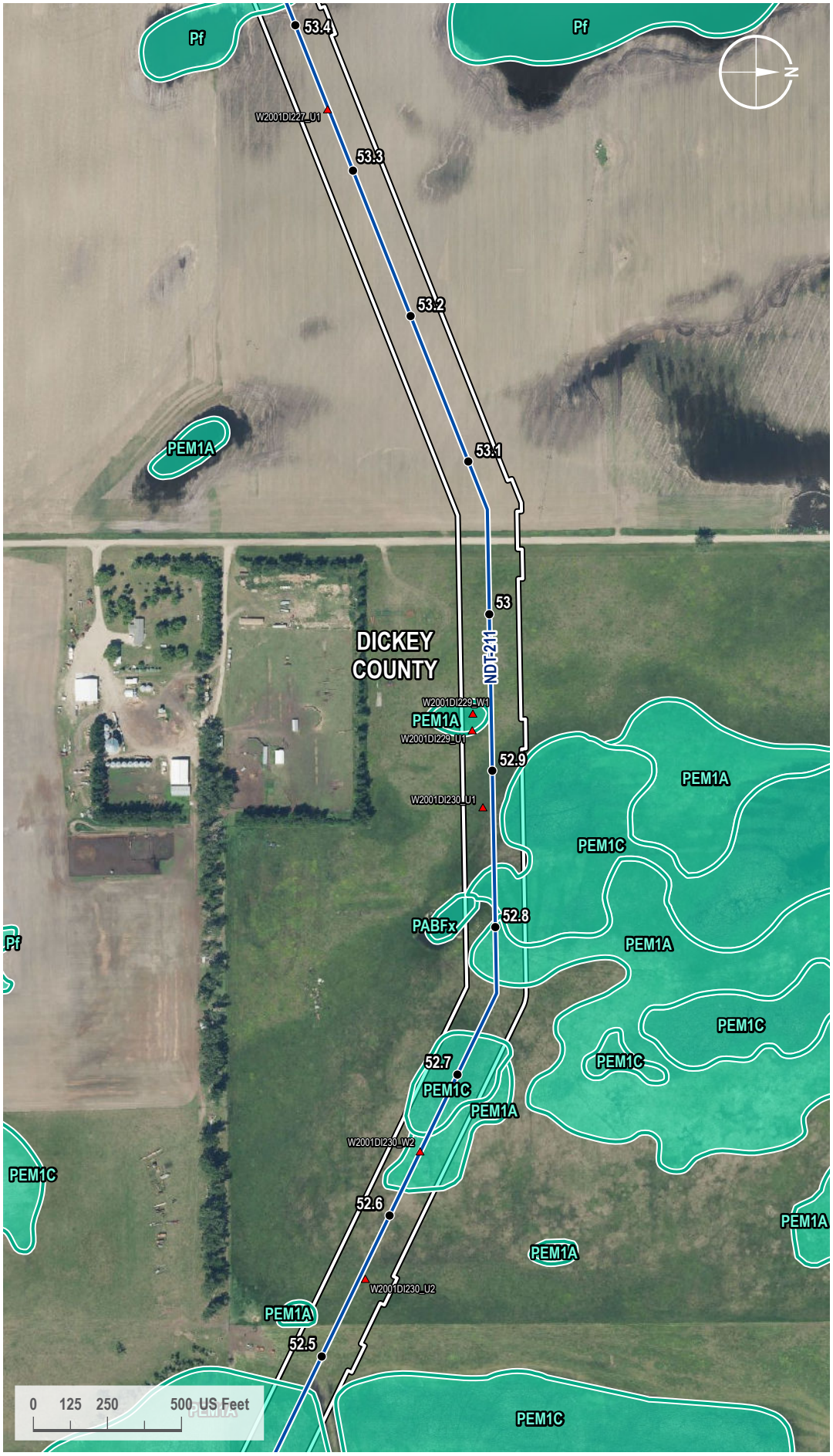

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Figure Title: NWI Map

Figure Number: Appendix A-4

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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Path: G:\Projects\TAL-21015451-00 - Summit Carbon - MCE Project\0800 GEO\10_Mapping\01 Map Books\06 Regulatory\1001-06-027 ND PSC WBWL Mapping\1001-06-027 - NWI Map.aprx

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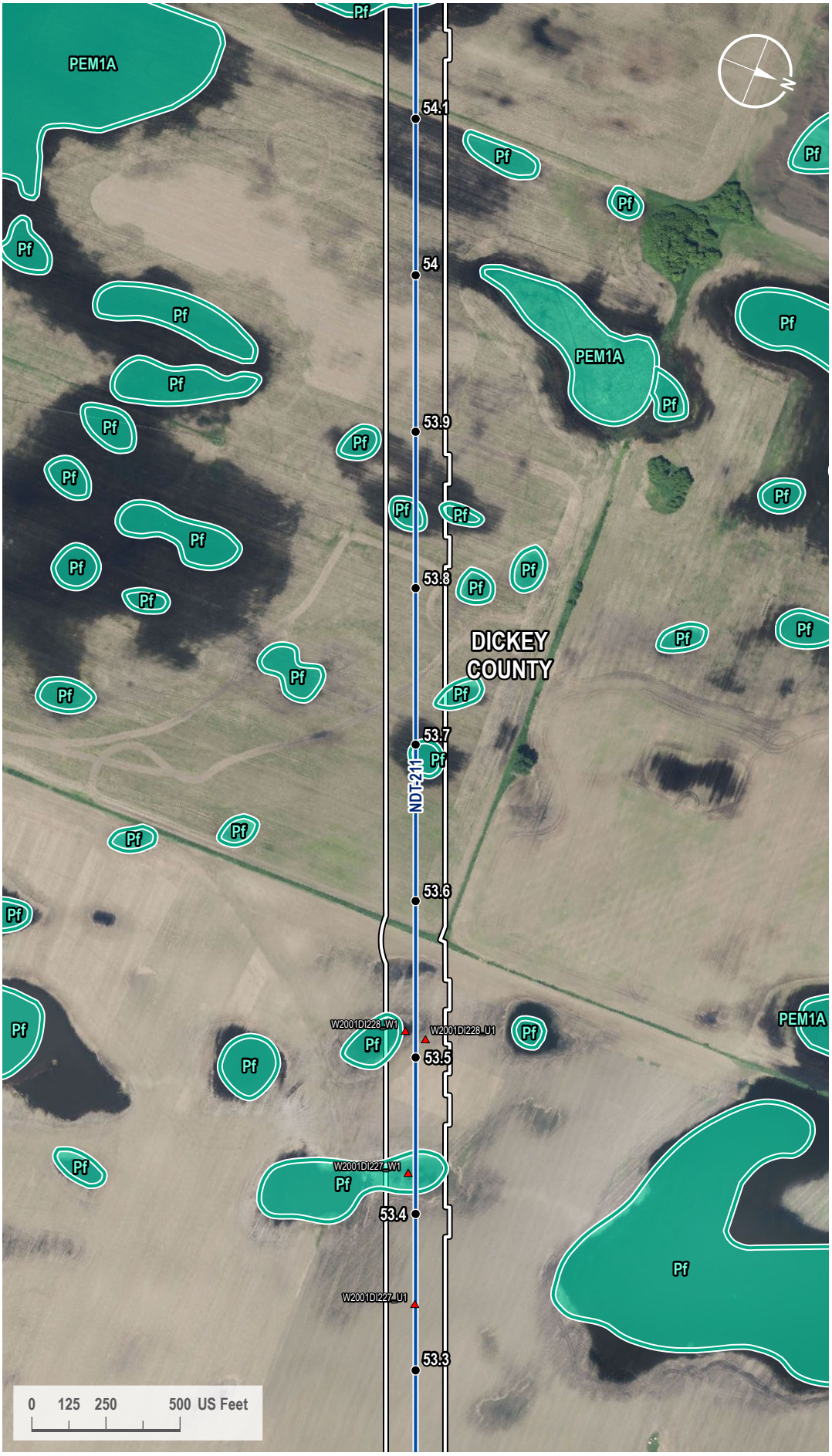

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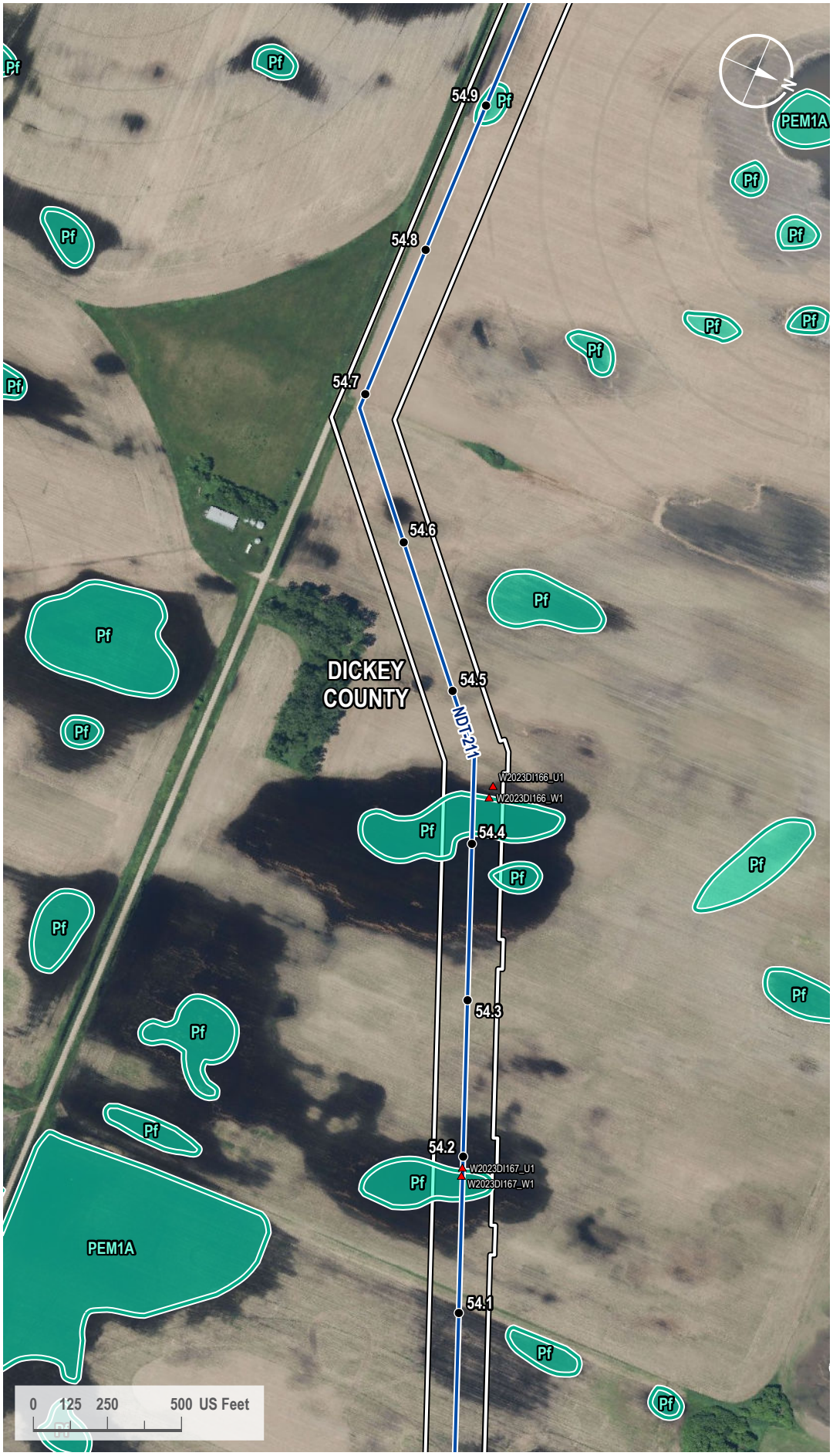

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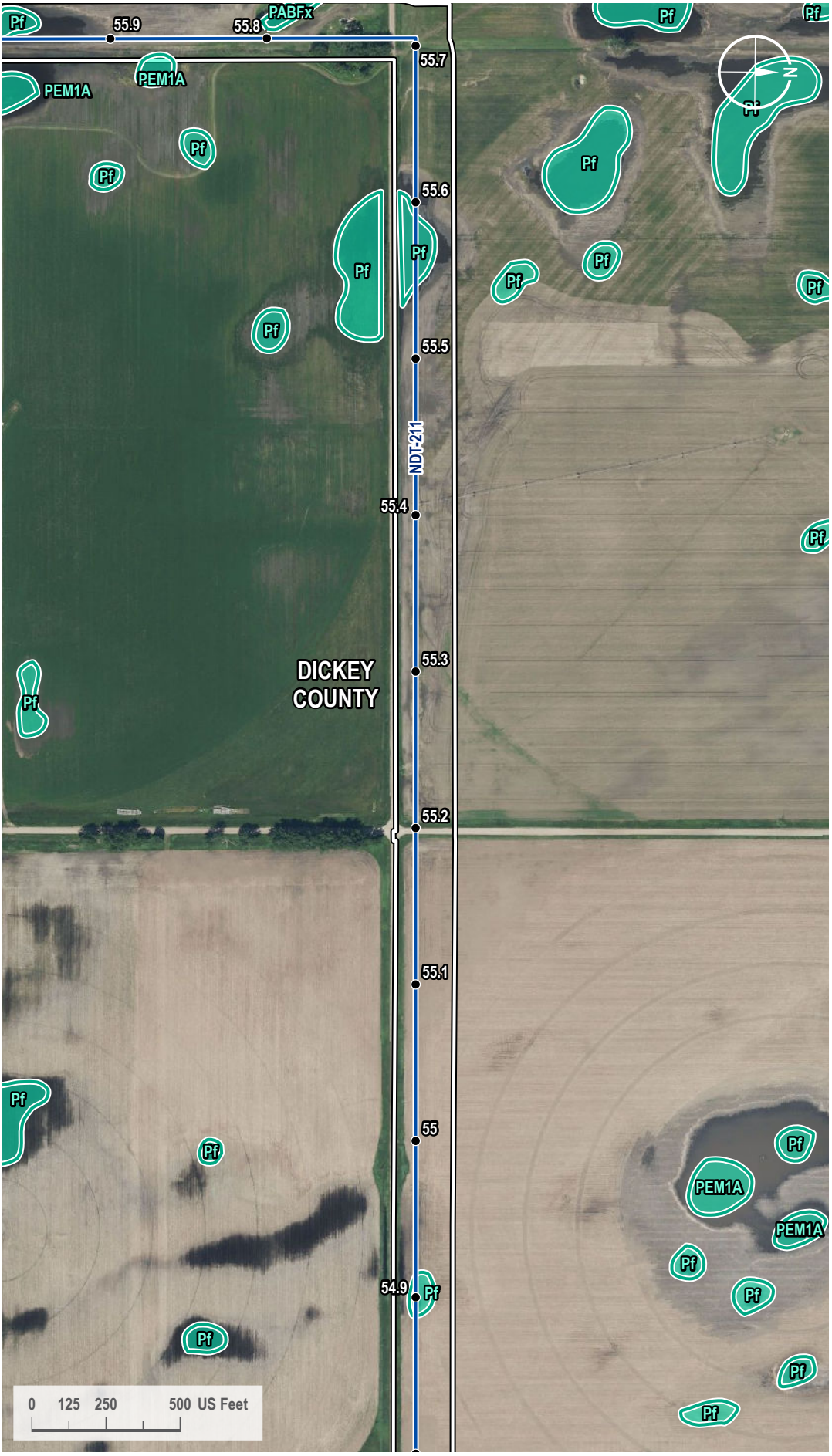

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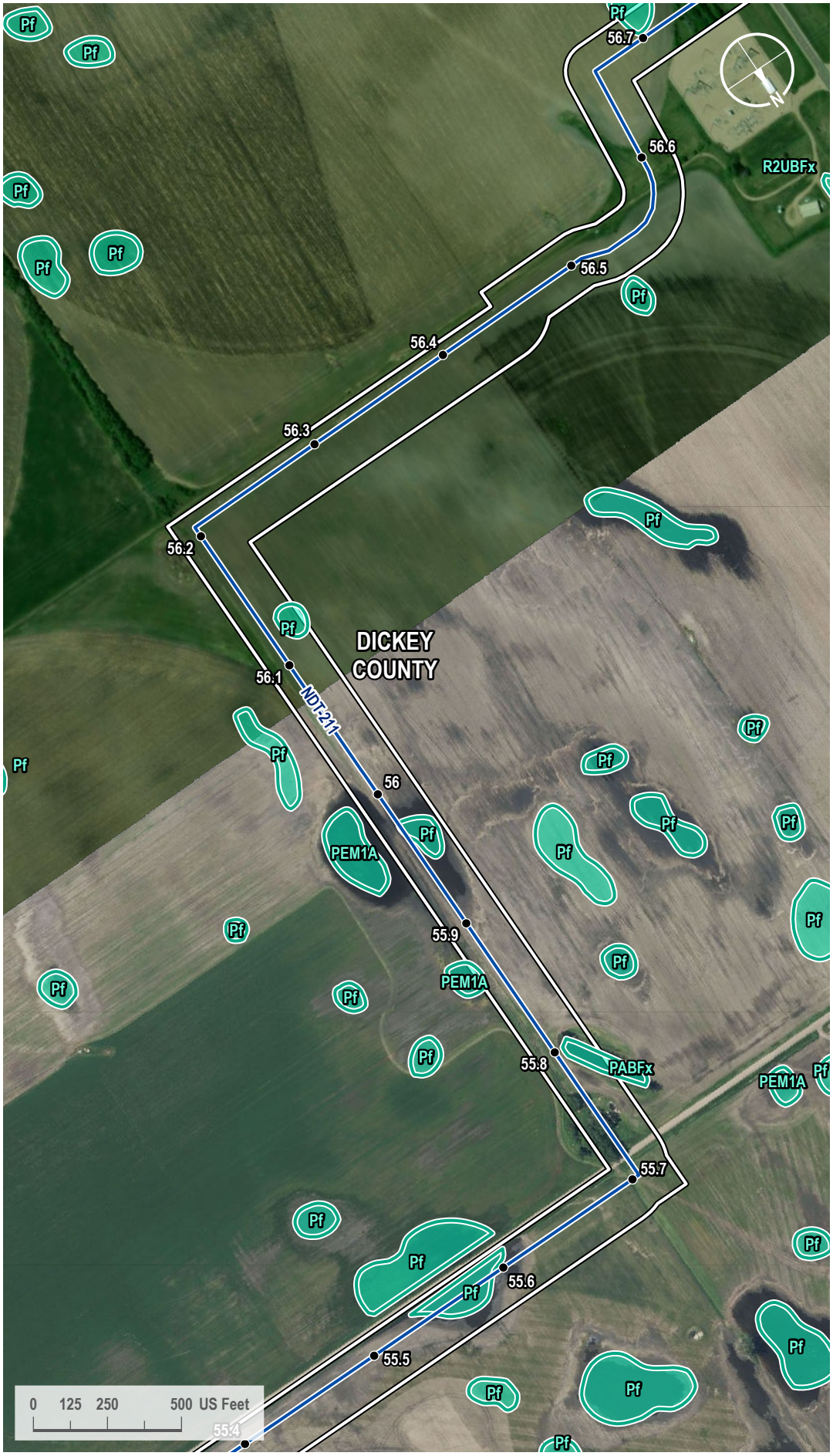

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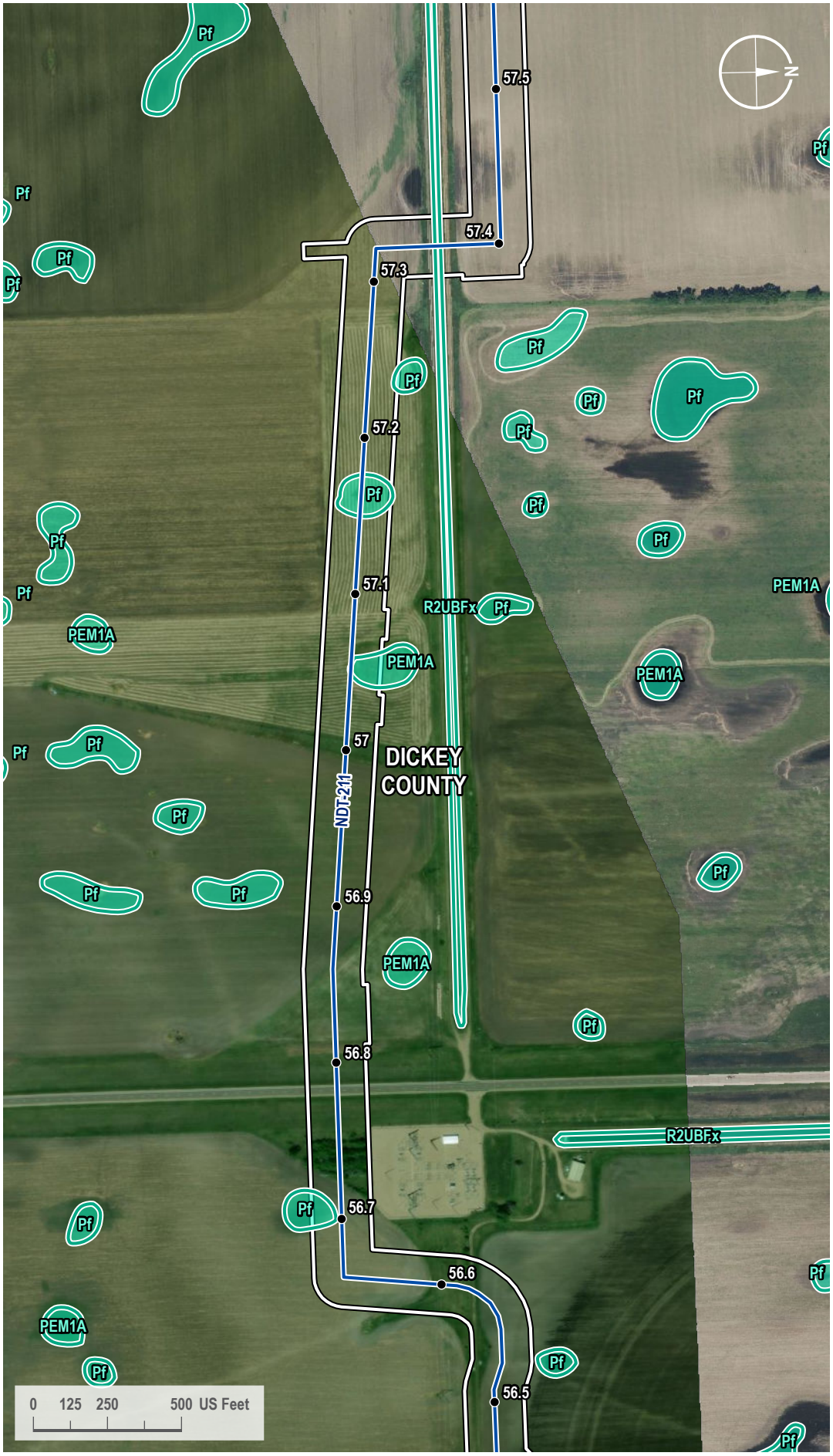

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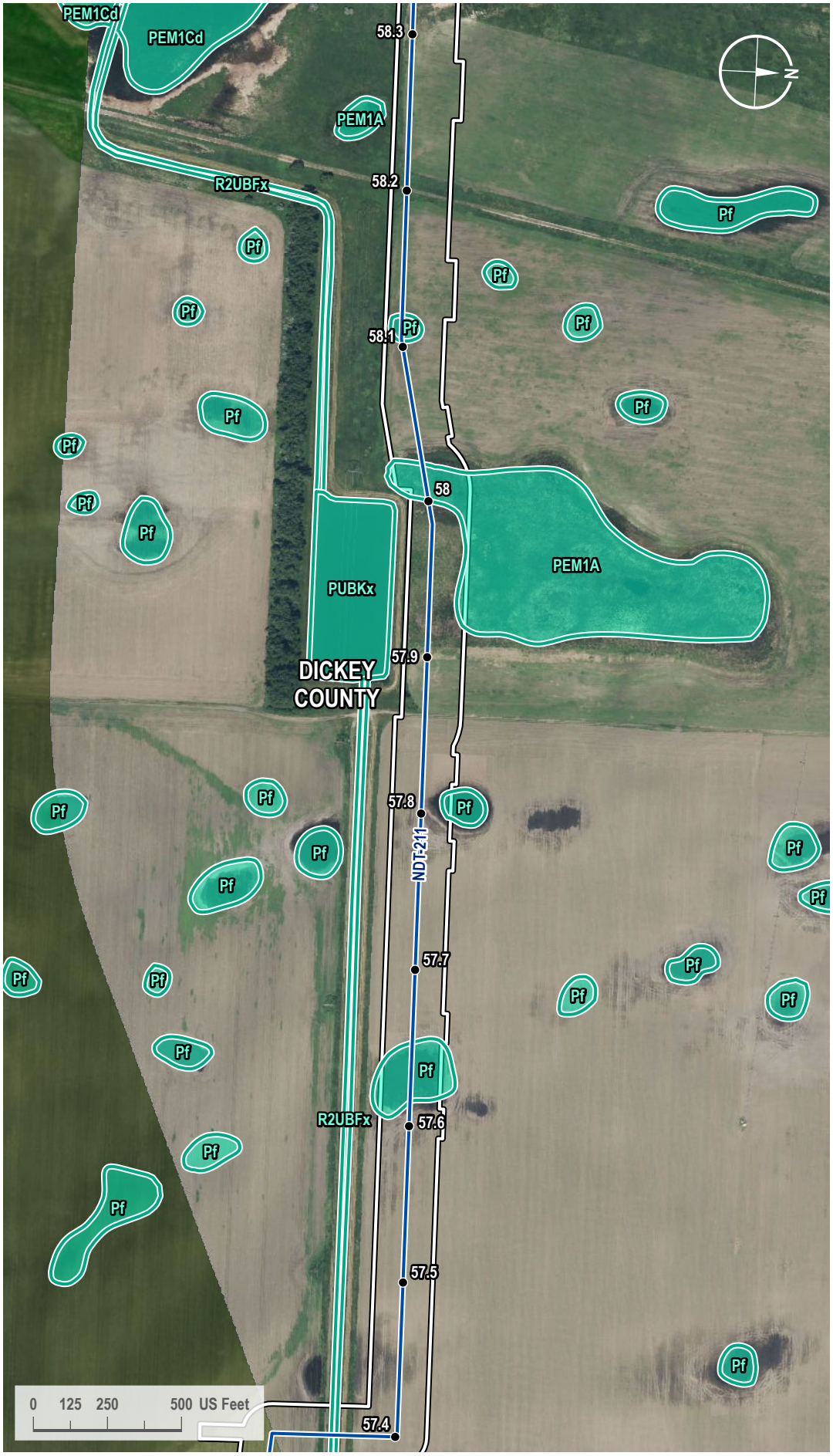

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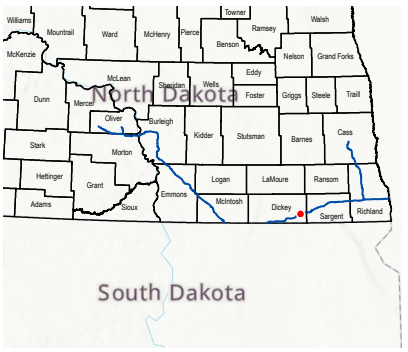

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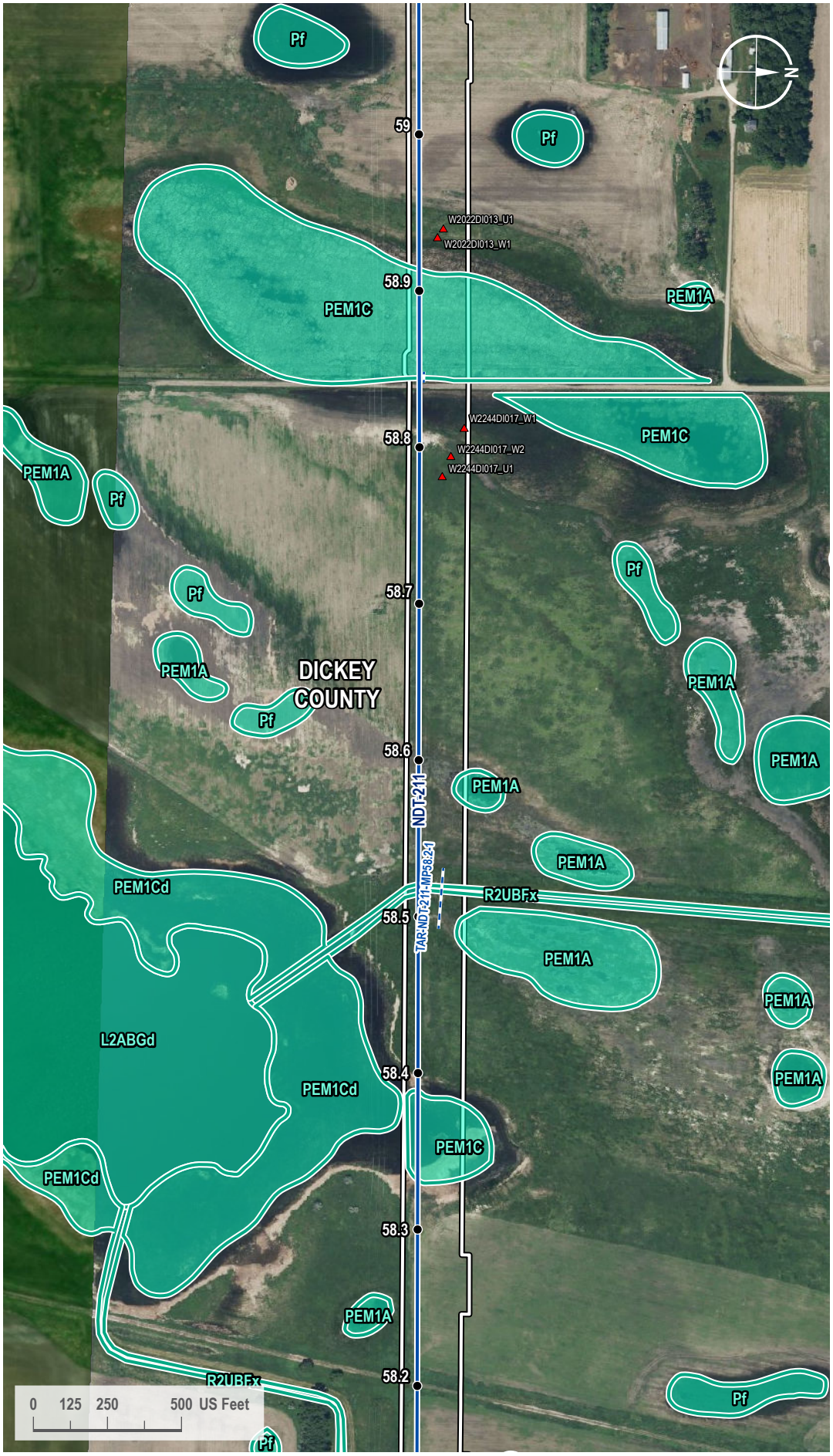

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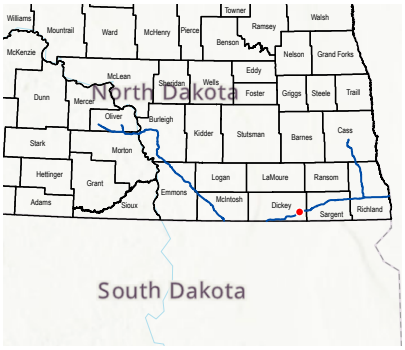

LEGEND

- Milepost
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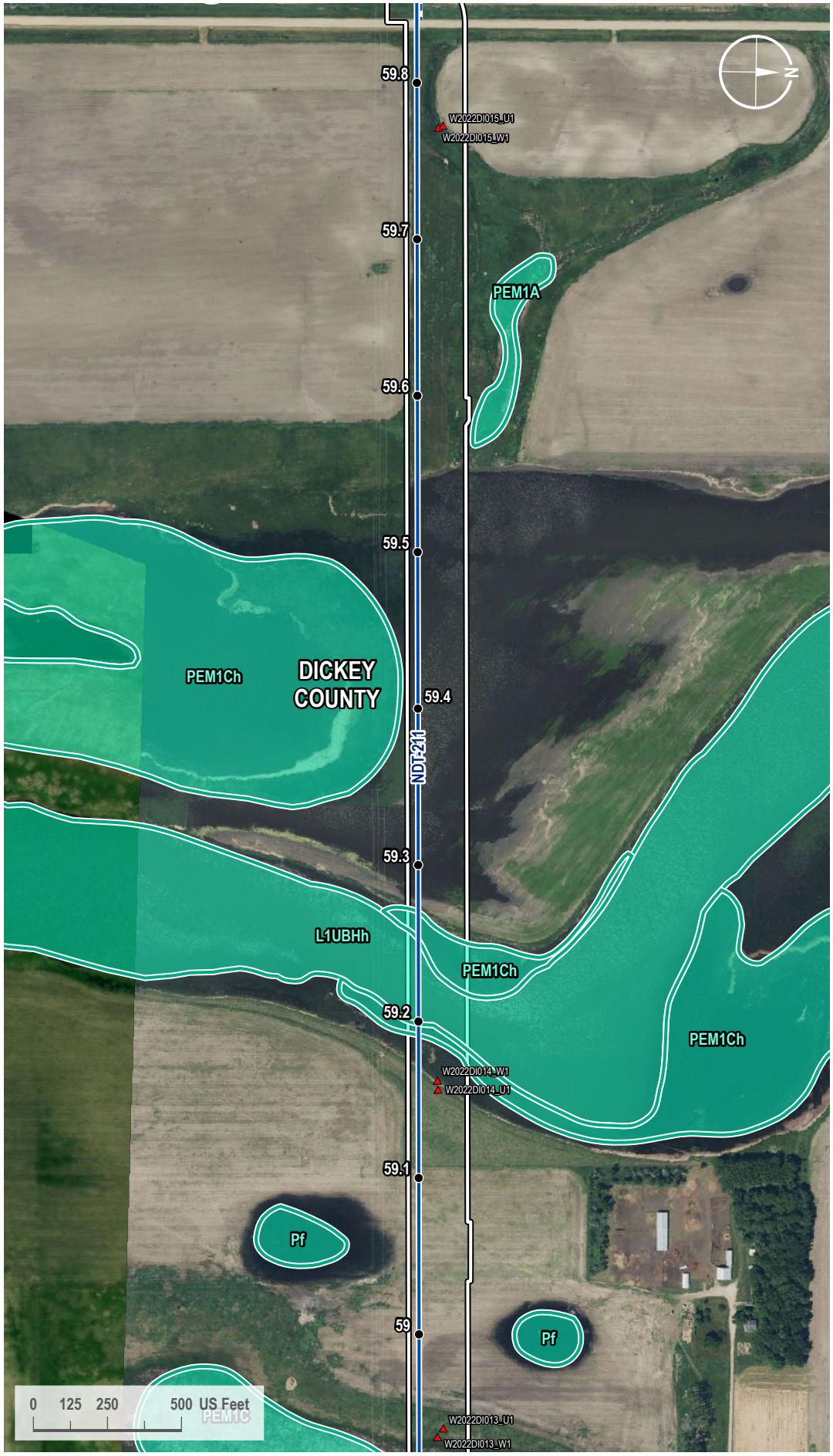

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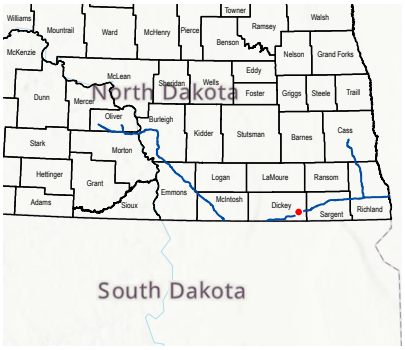

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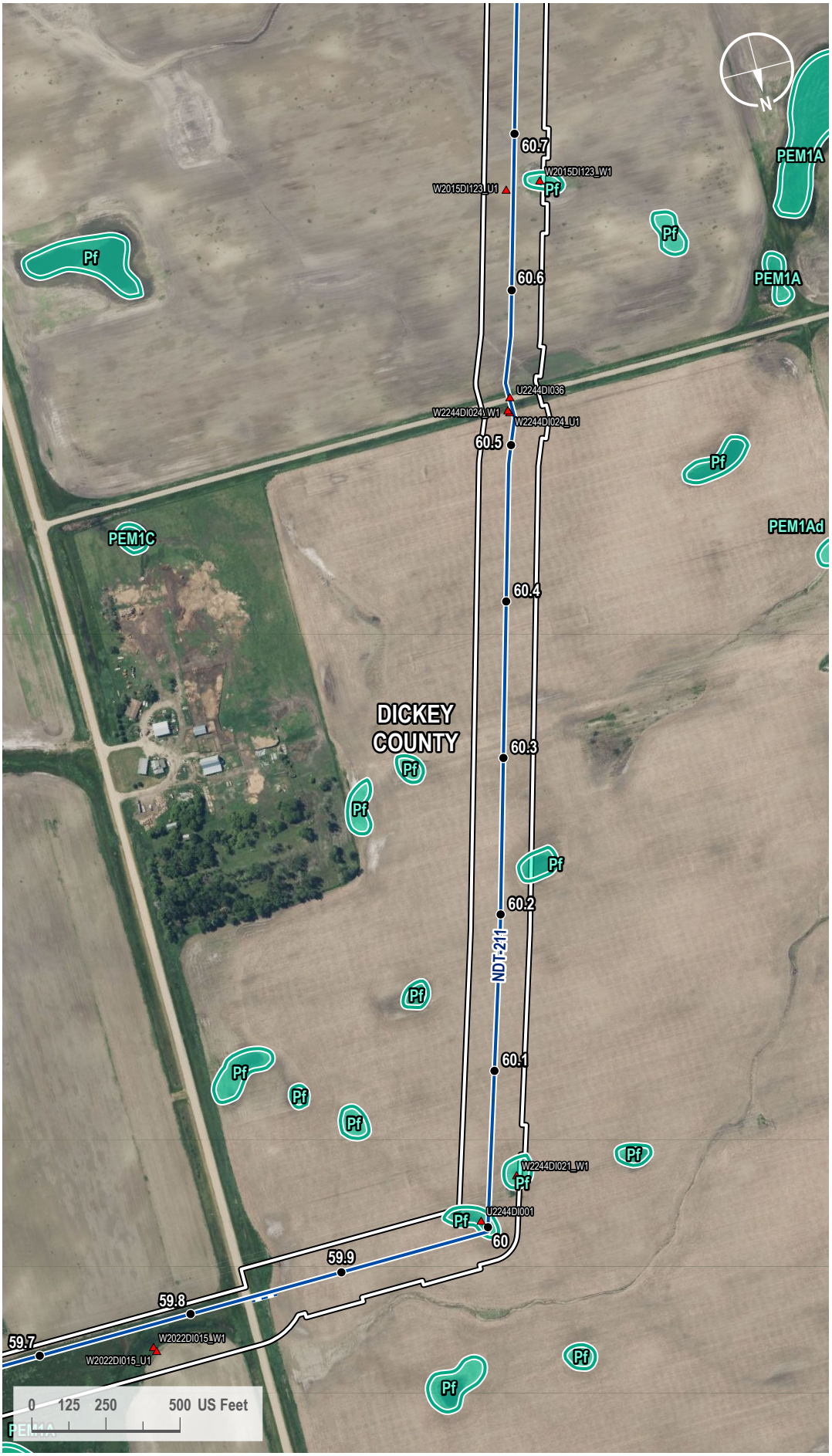

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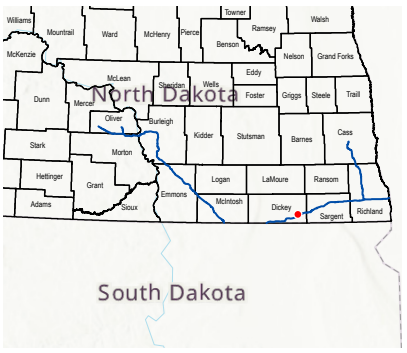

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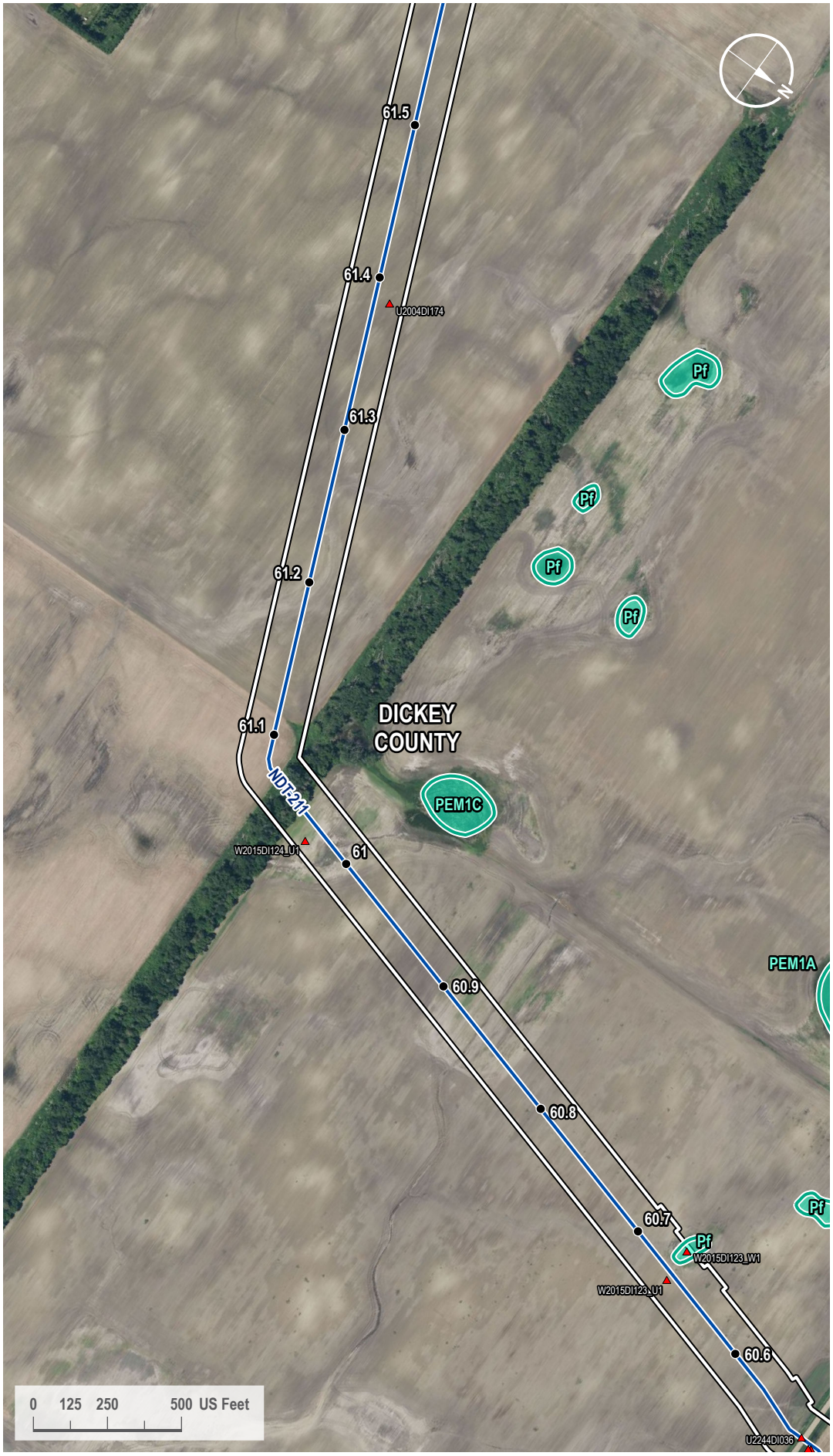

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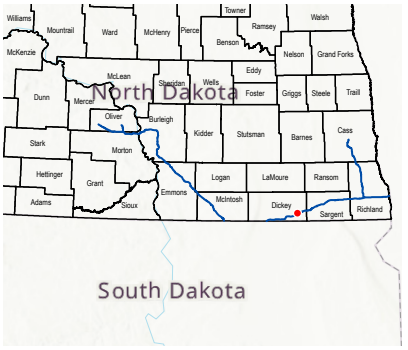

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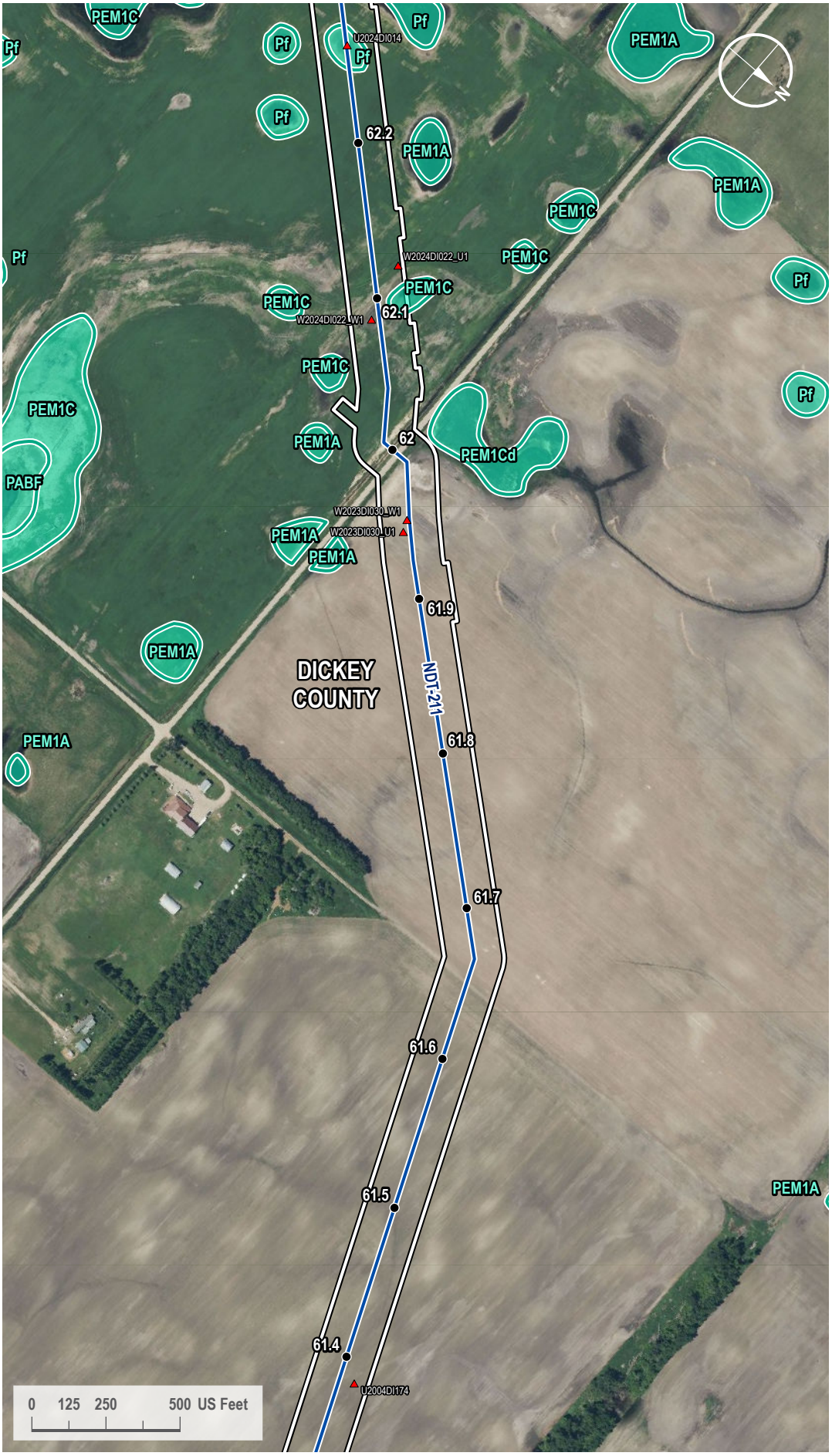

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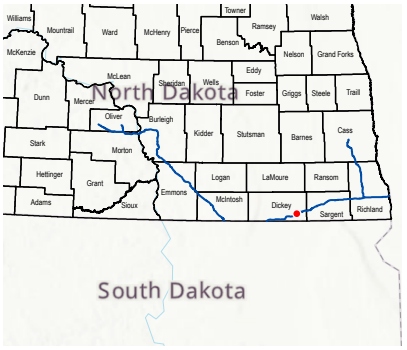

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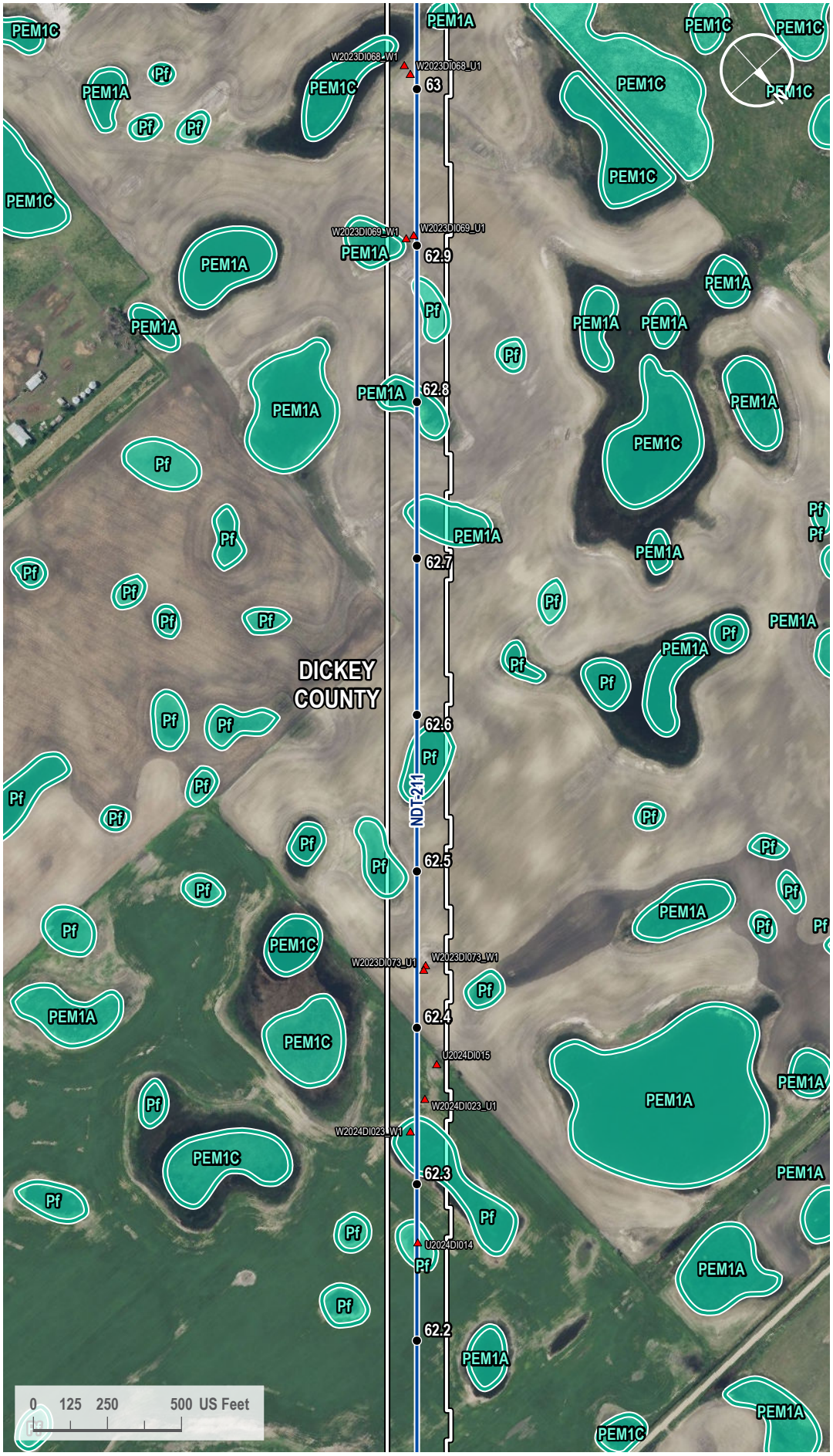

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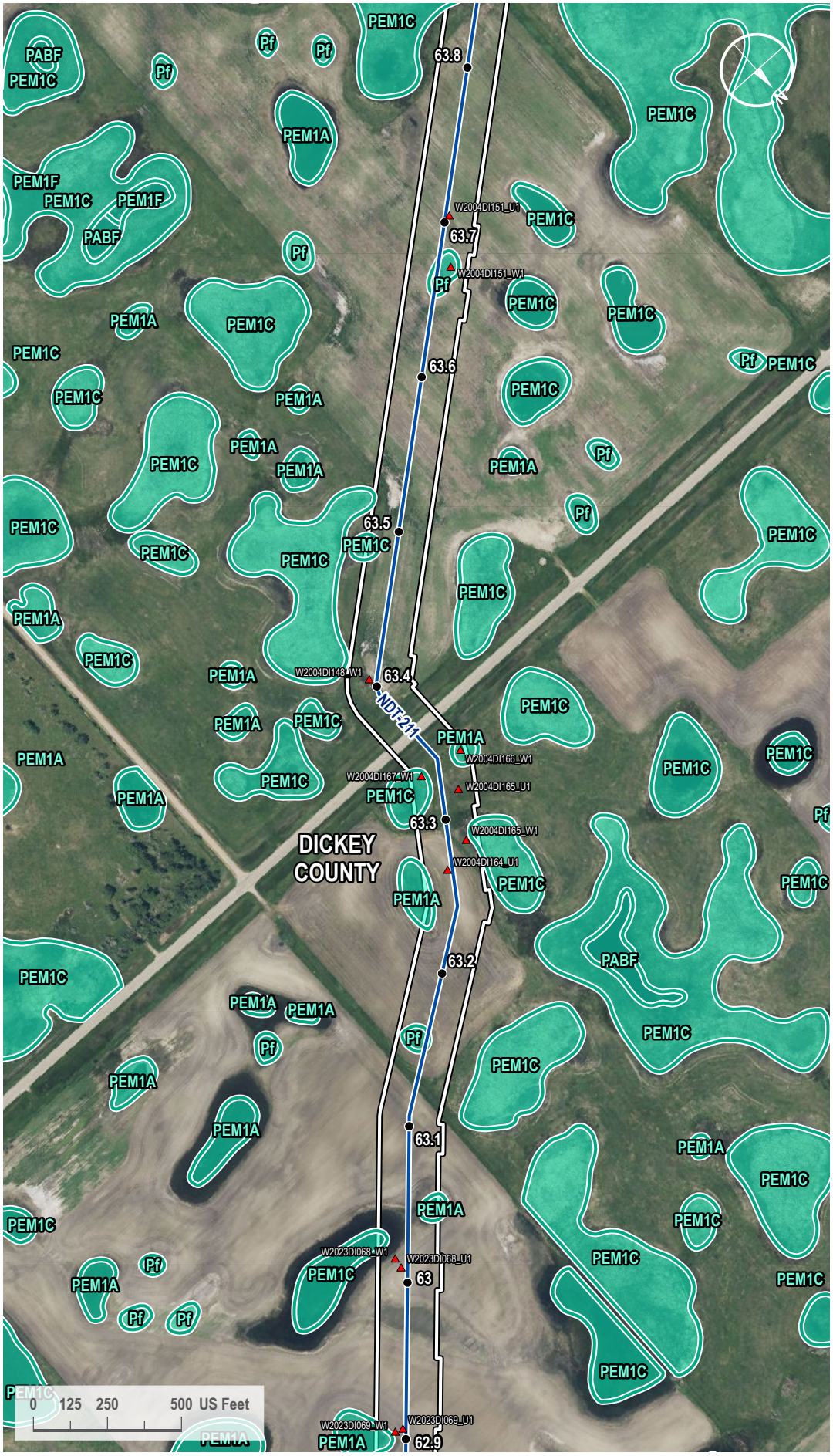

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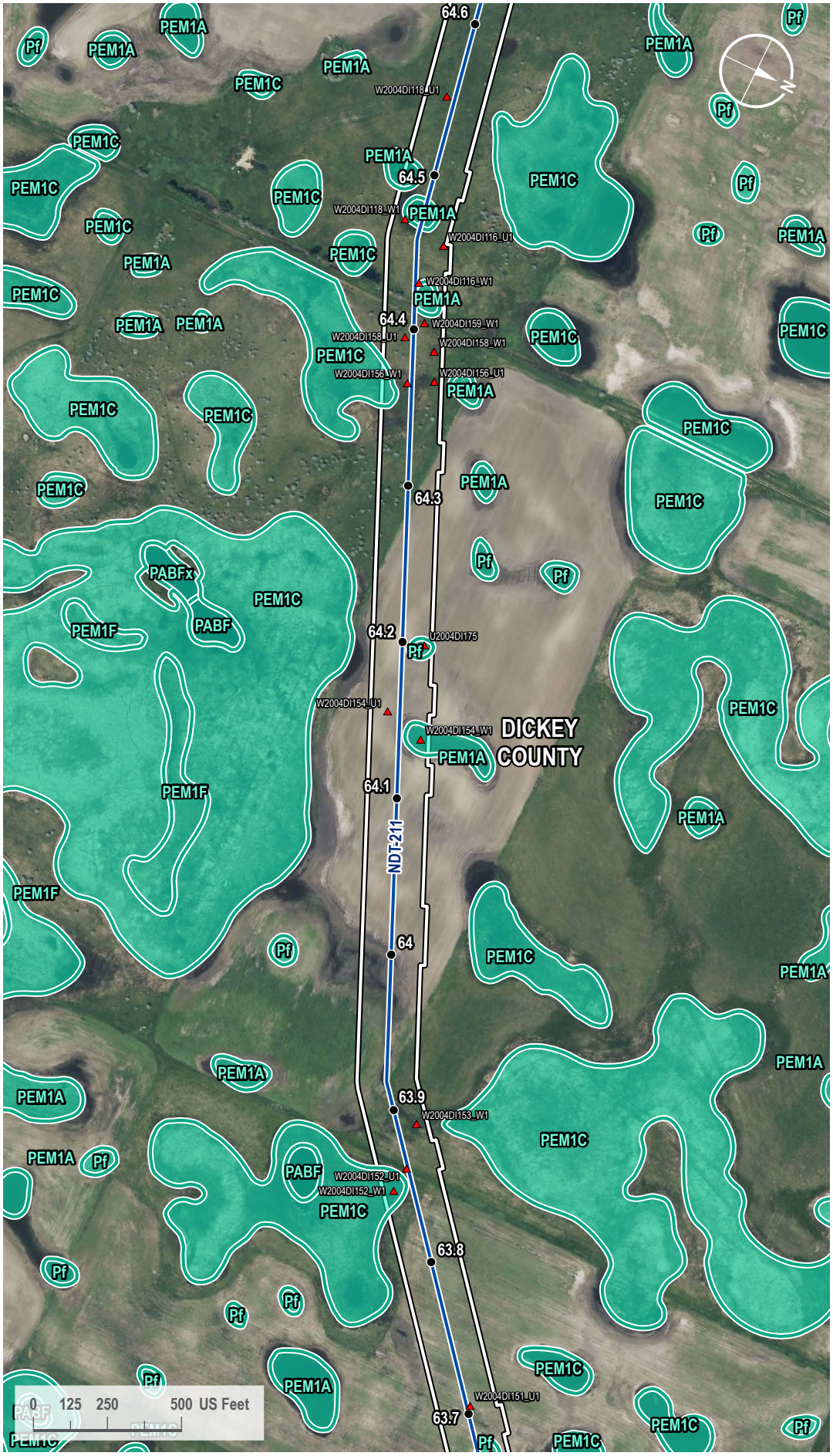

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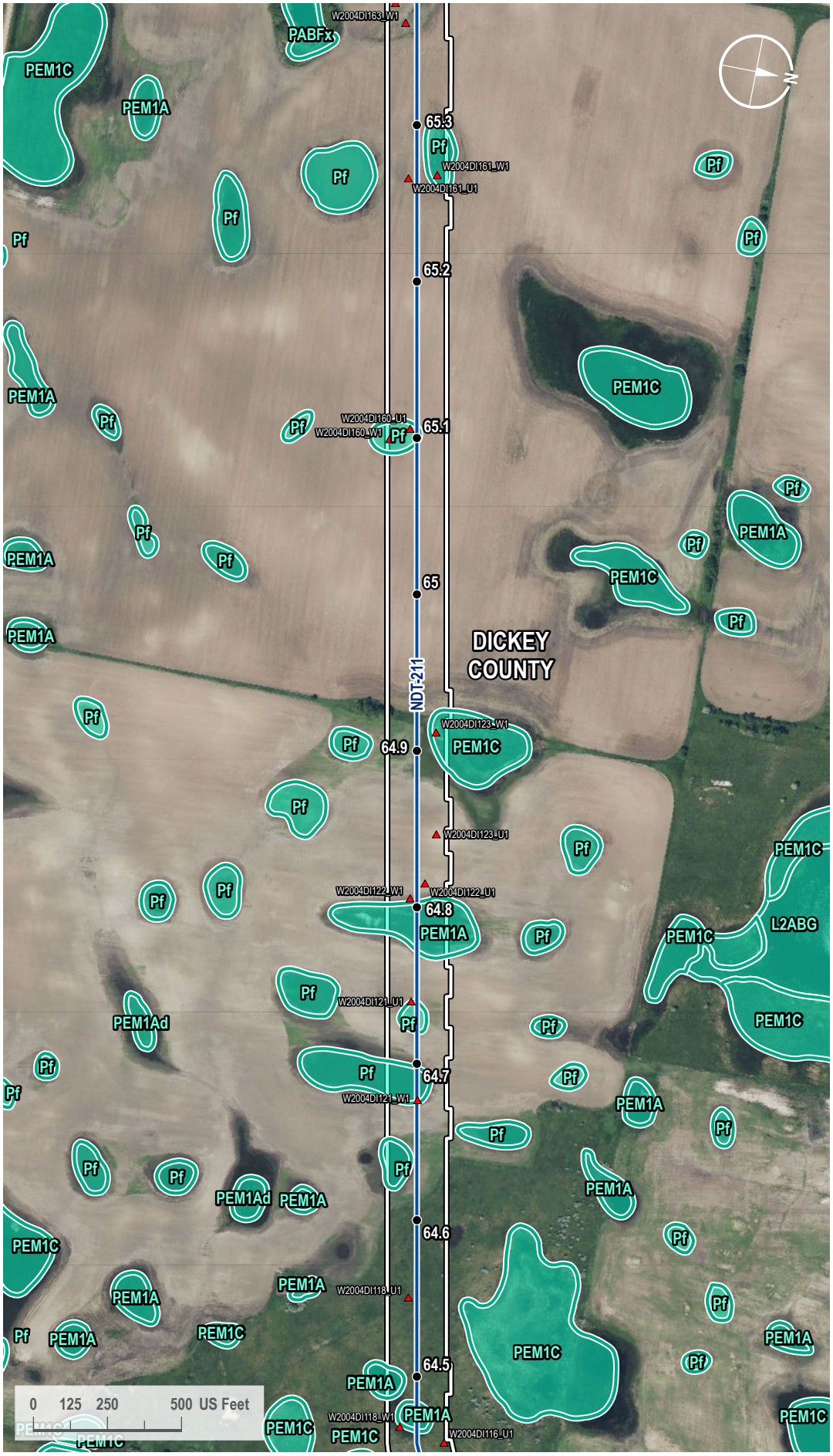

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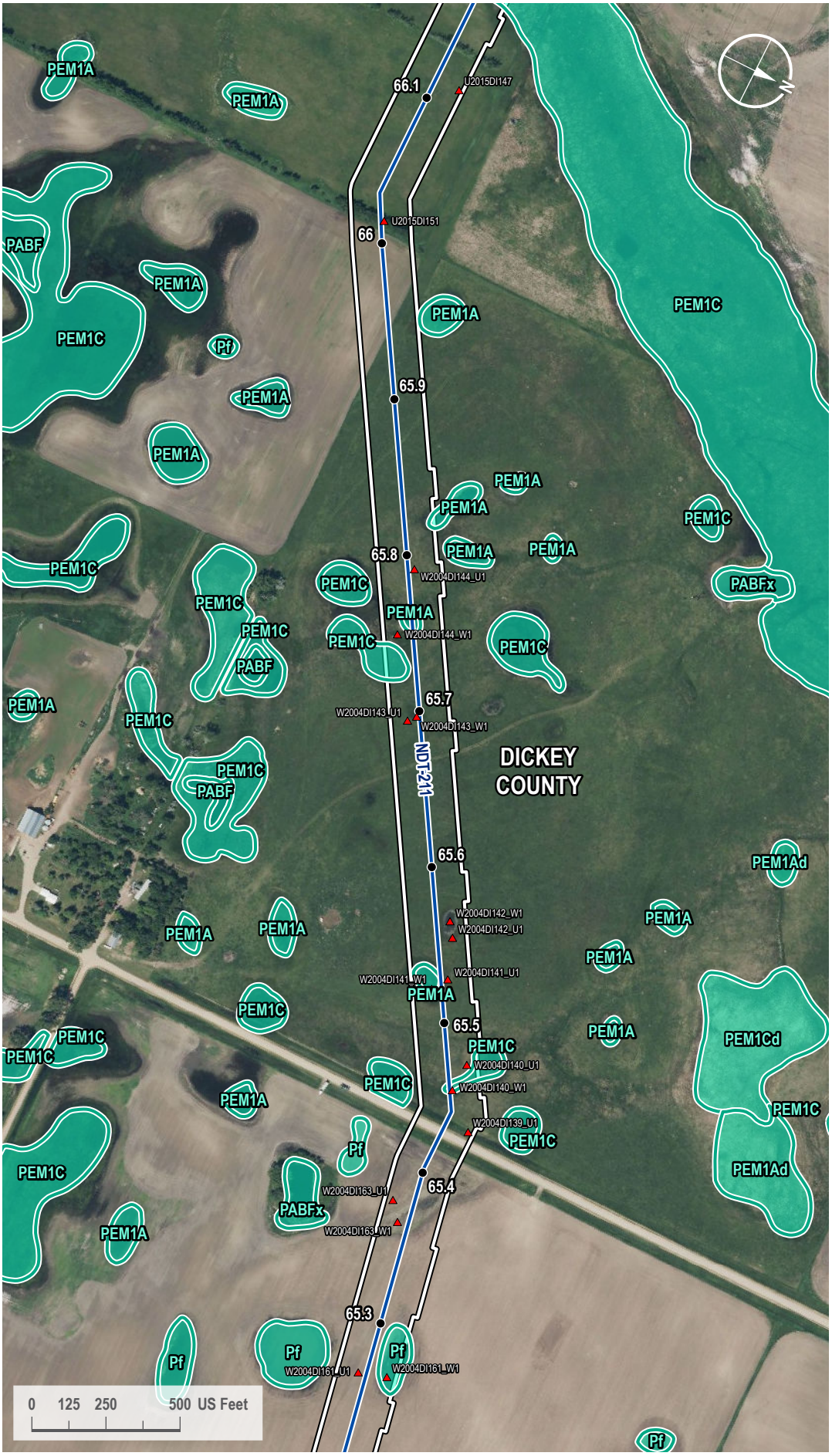

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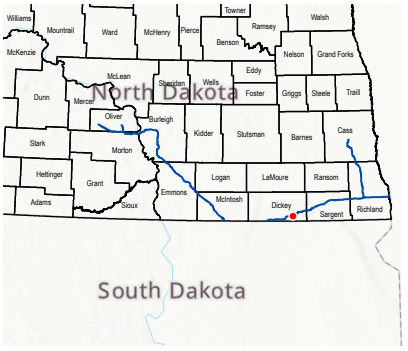

LEGEND

- Milepost
- Soil Station
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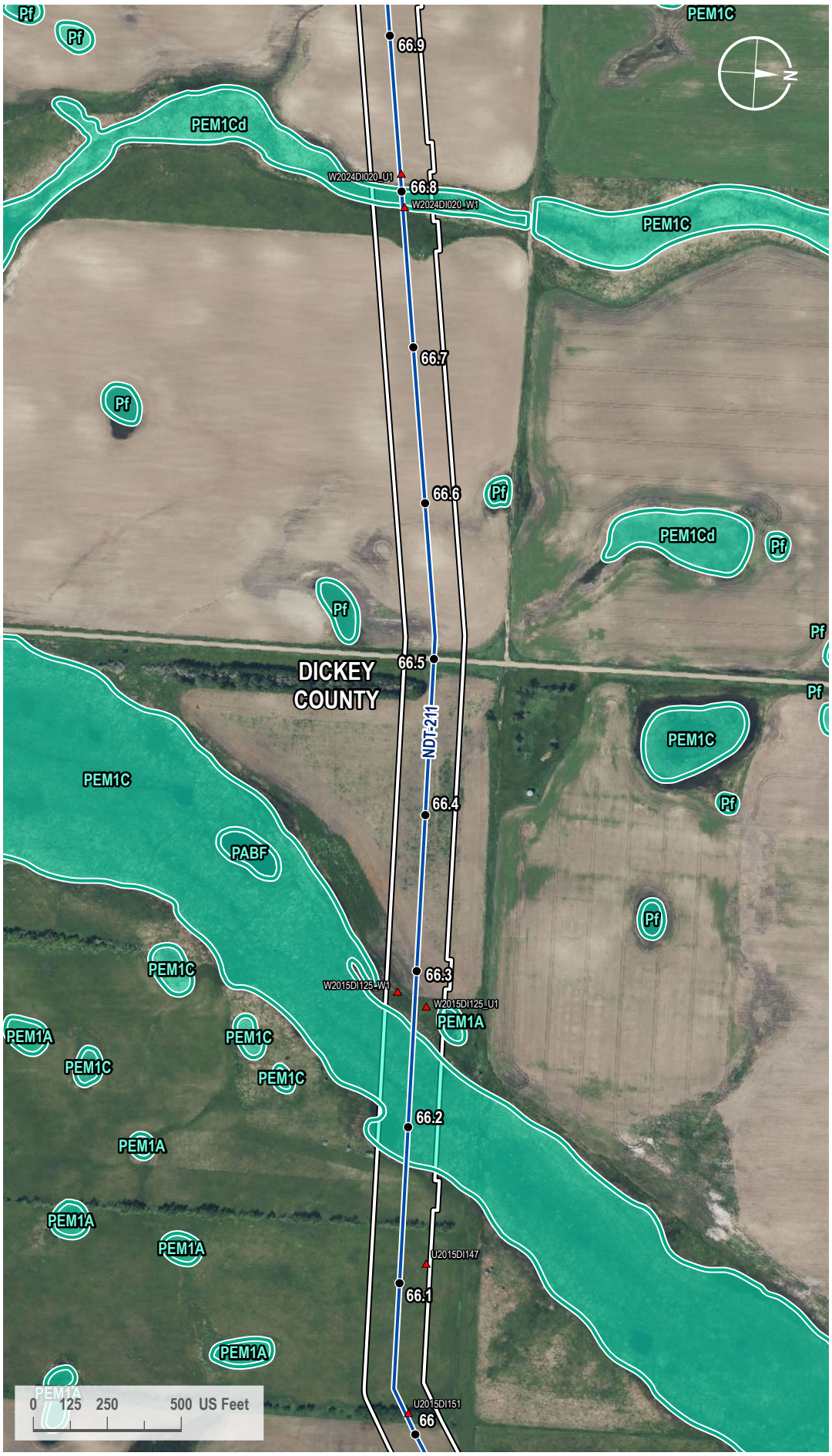

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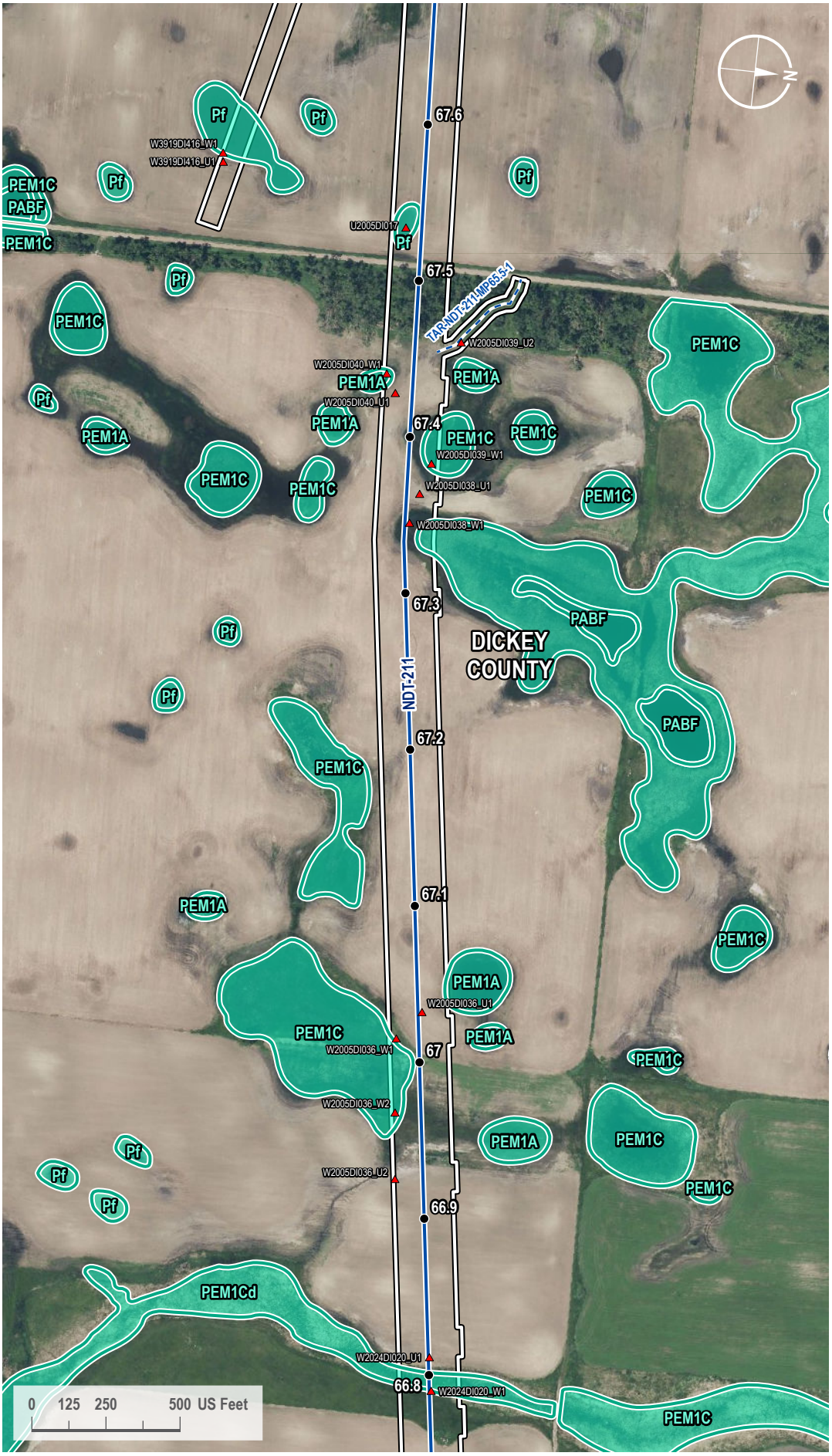

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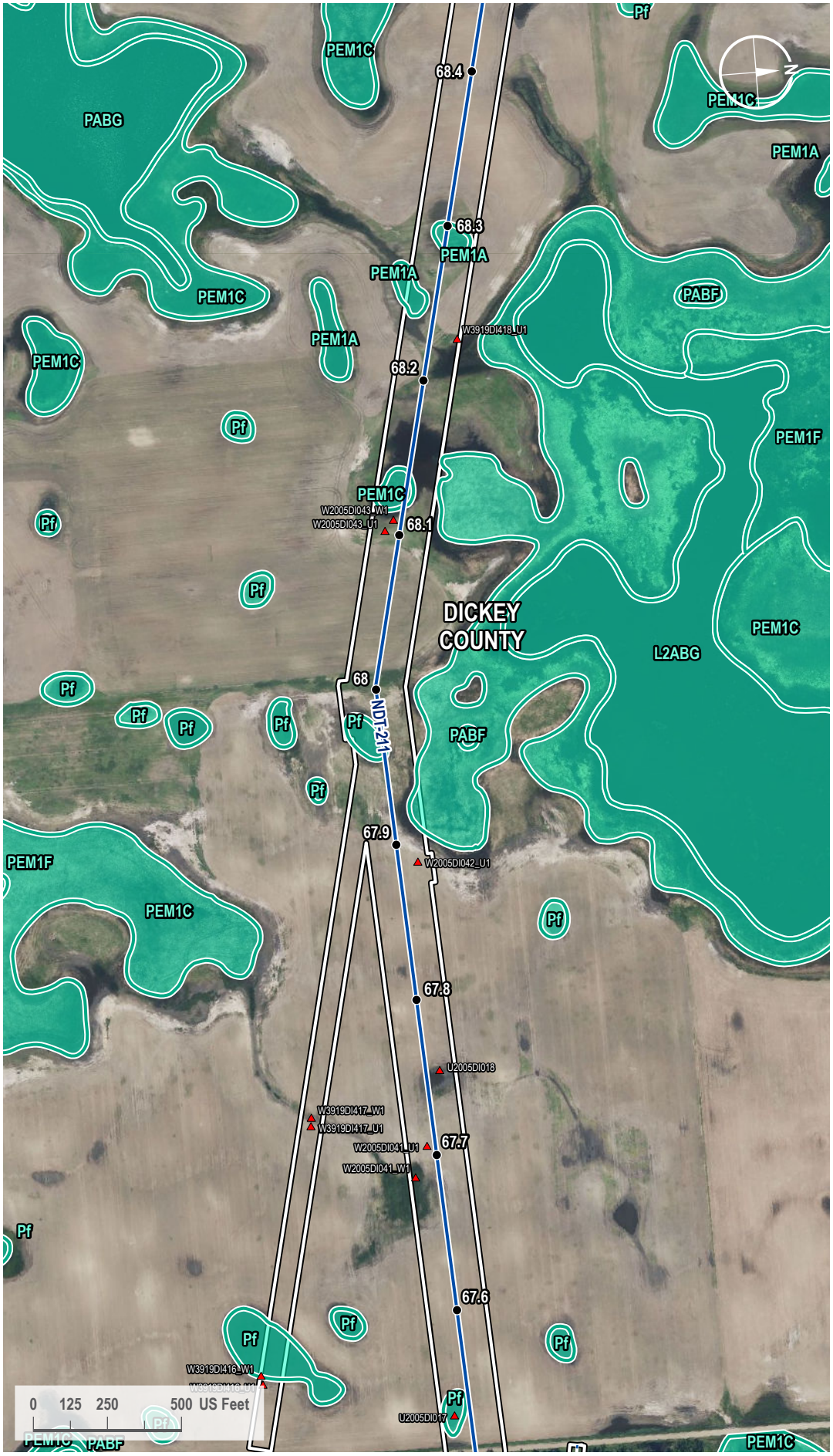

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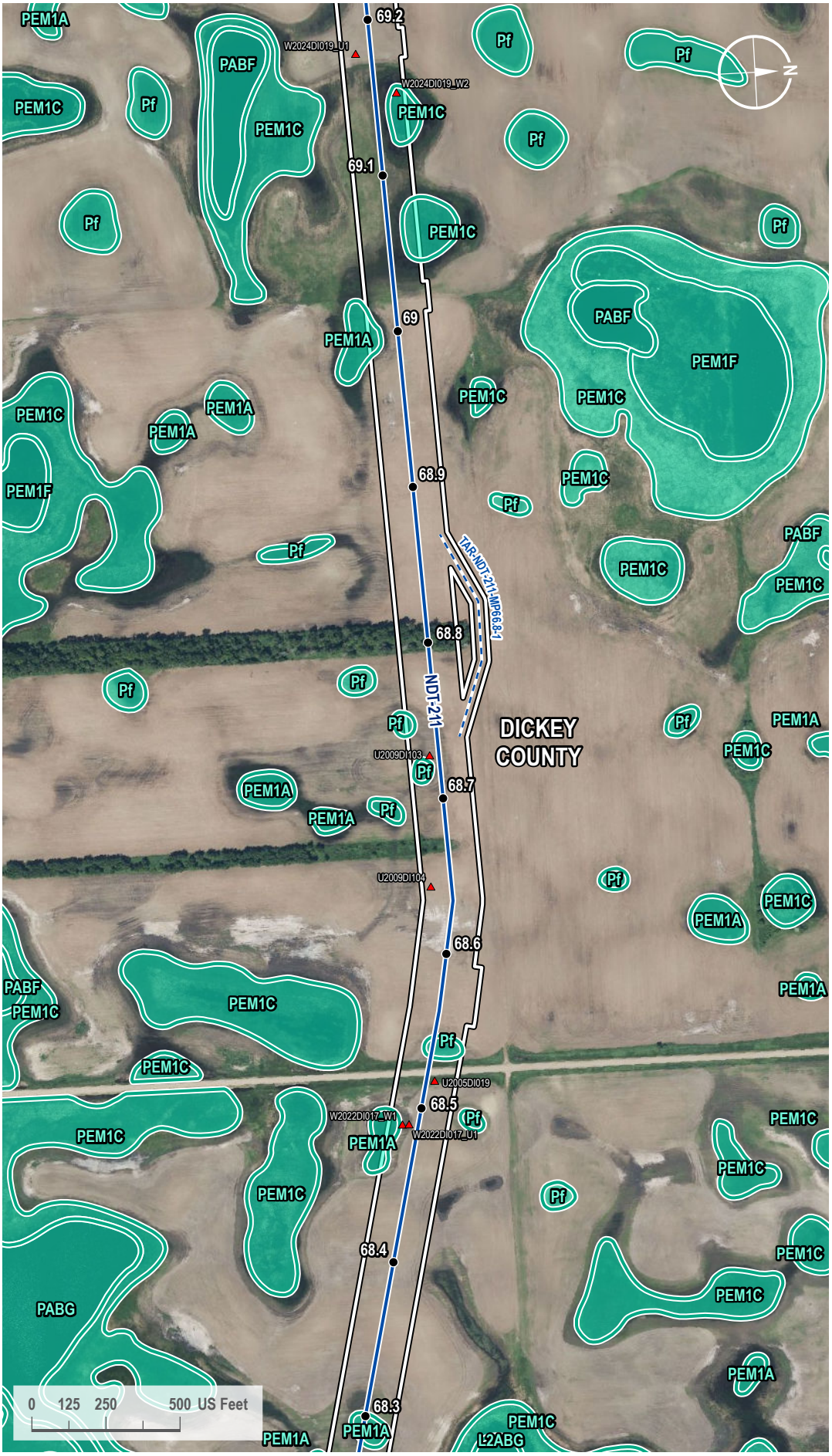

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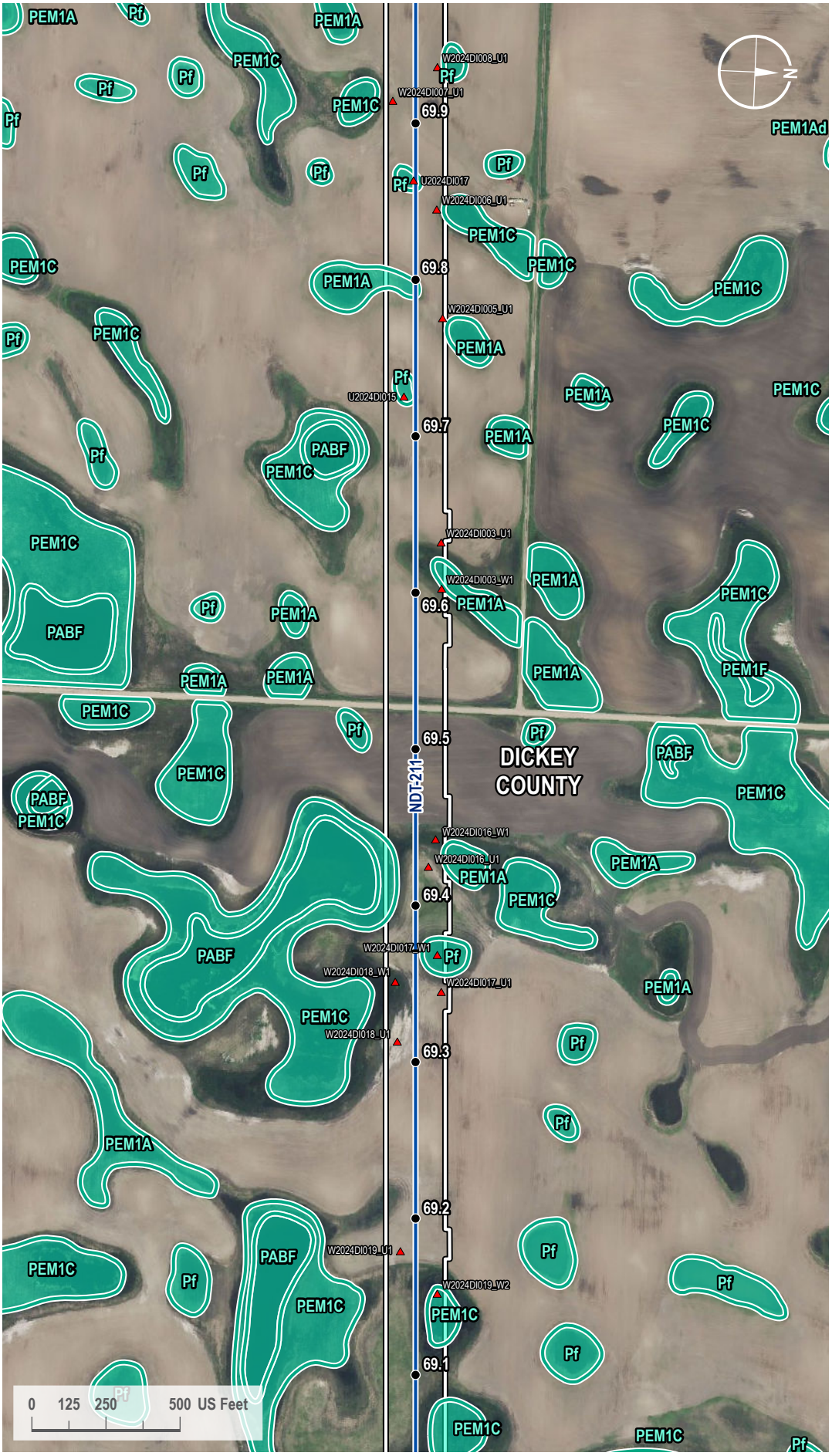

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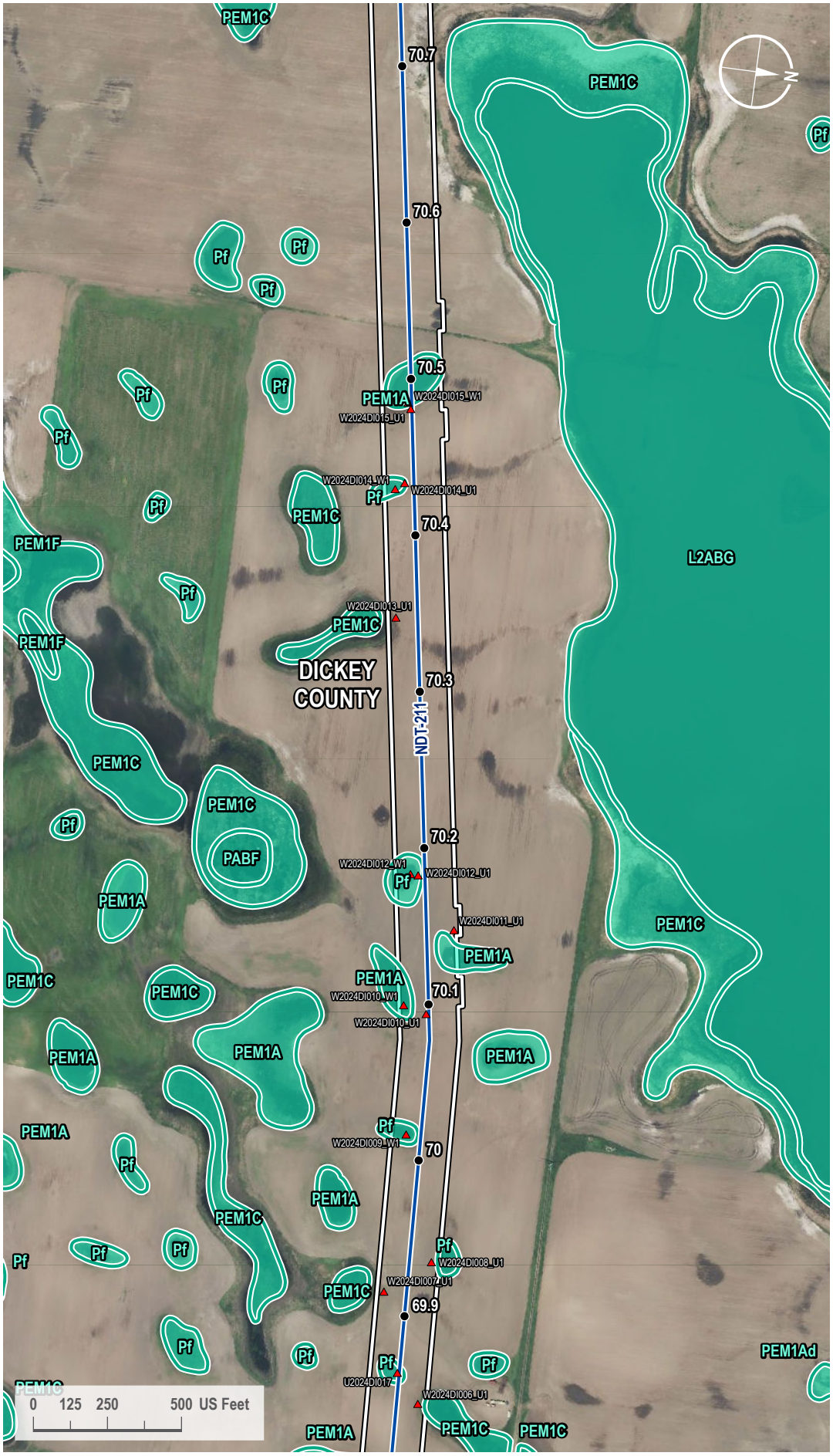

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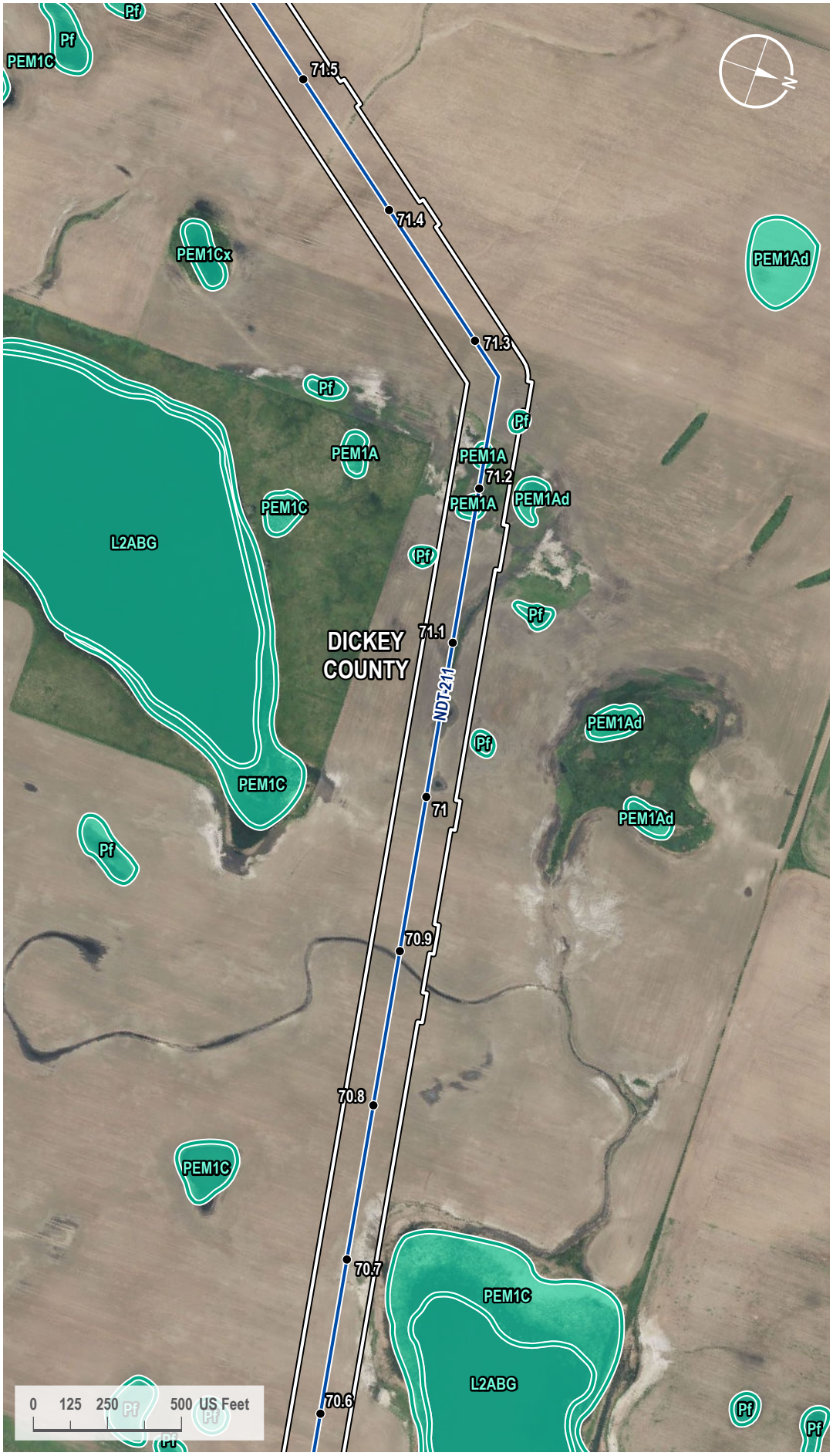

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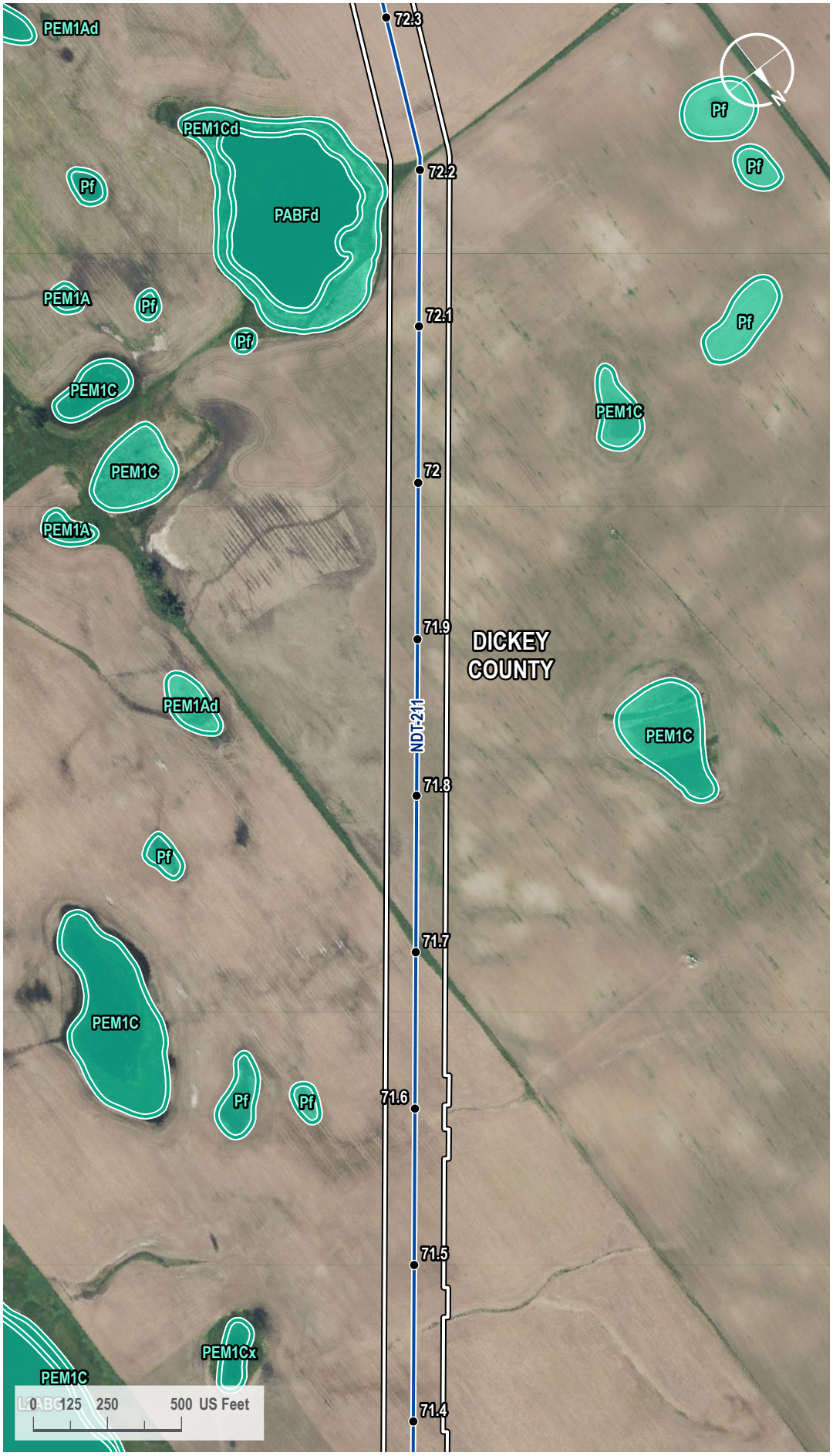

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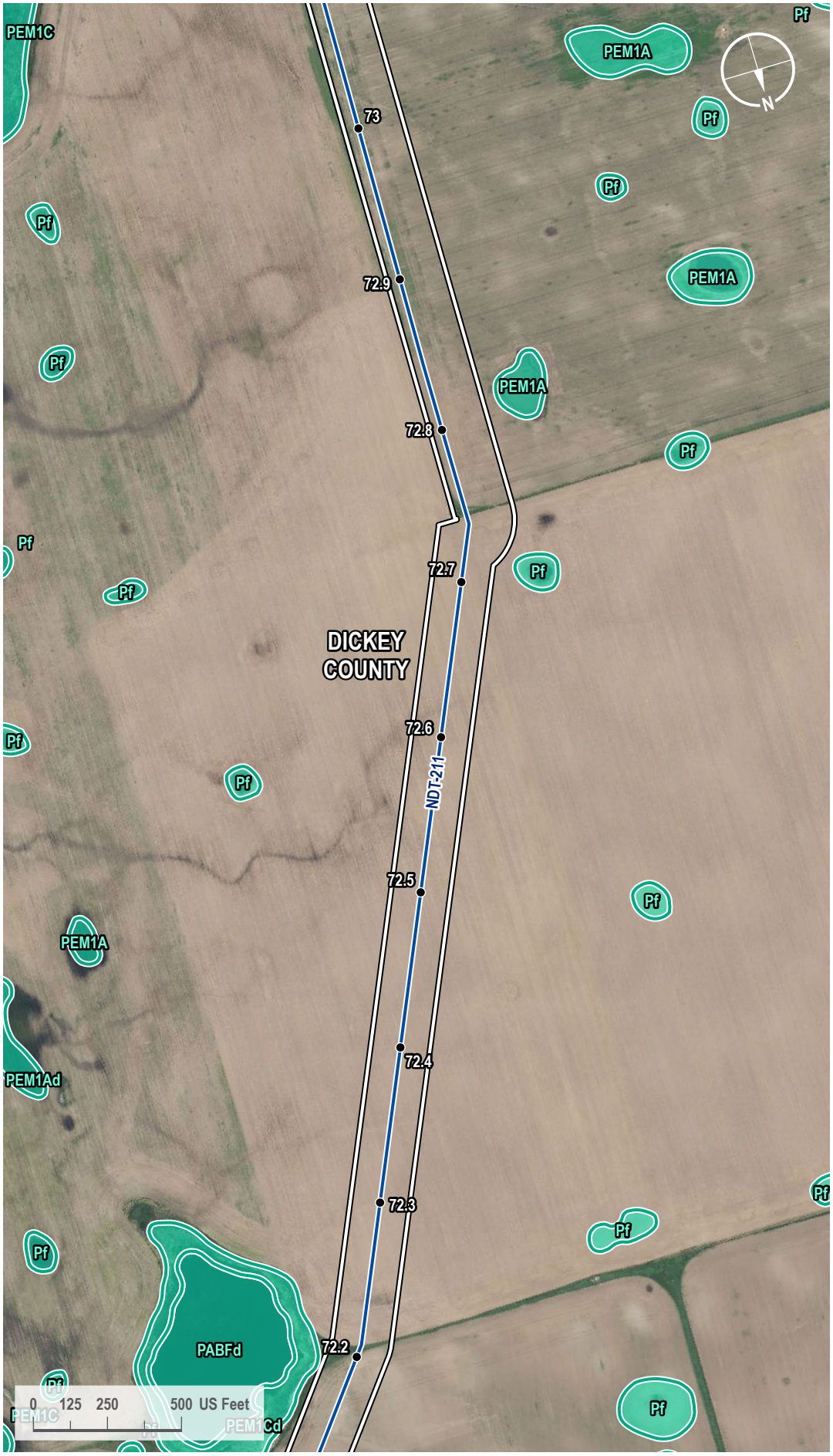

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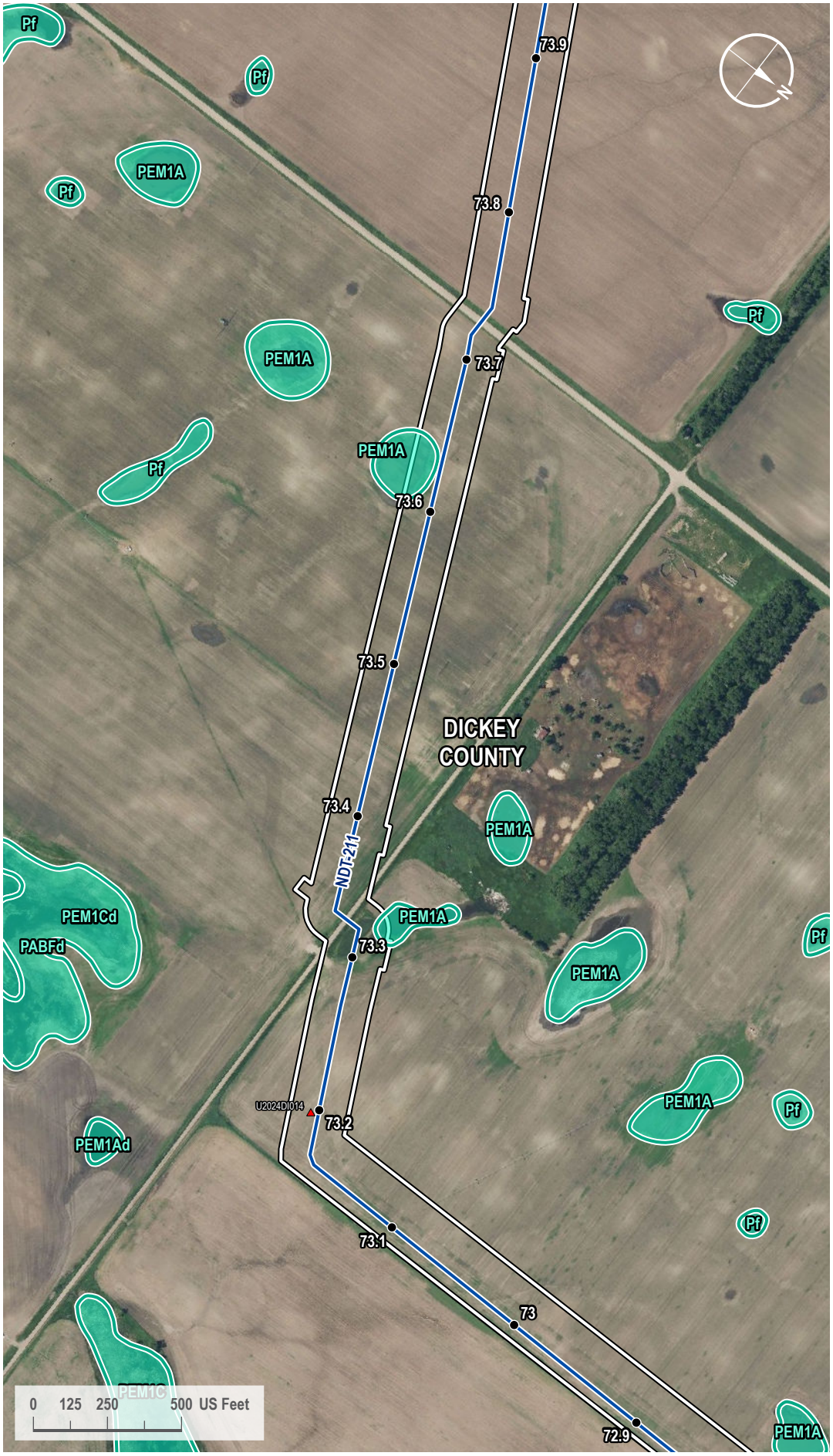

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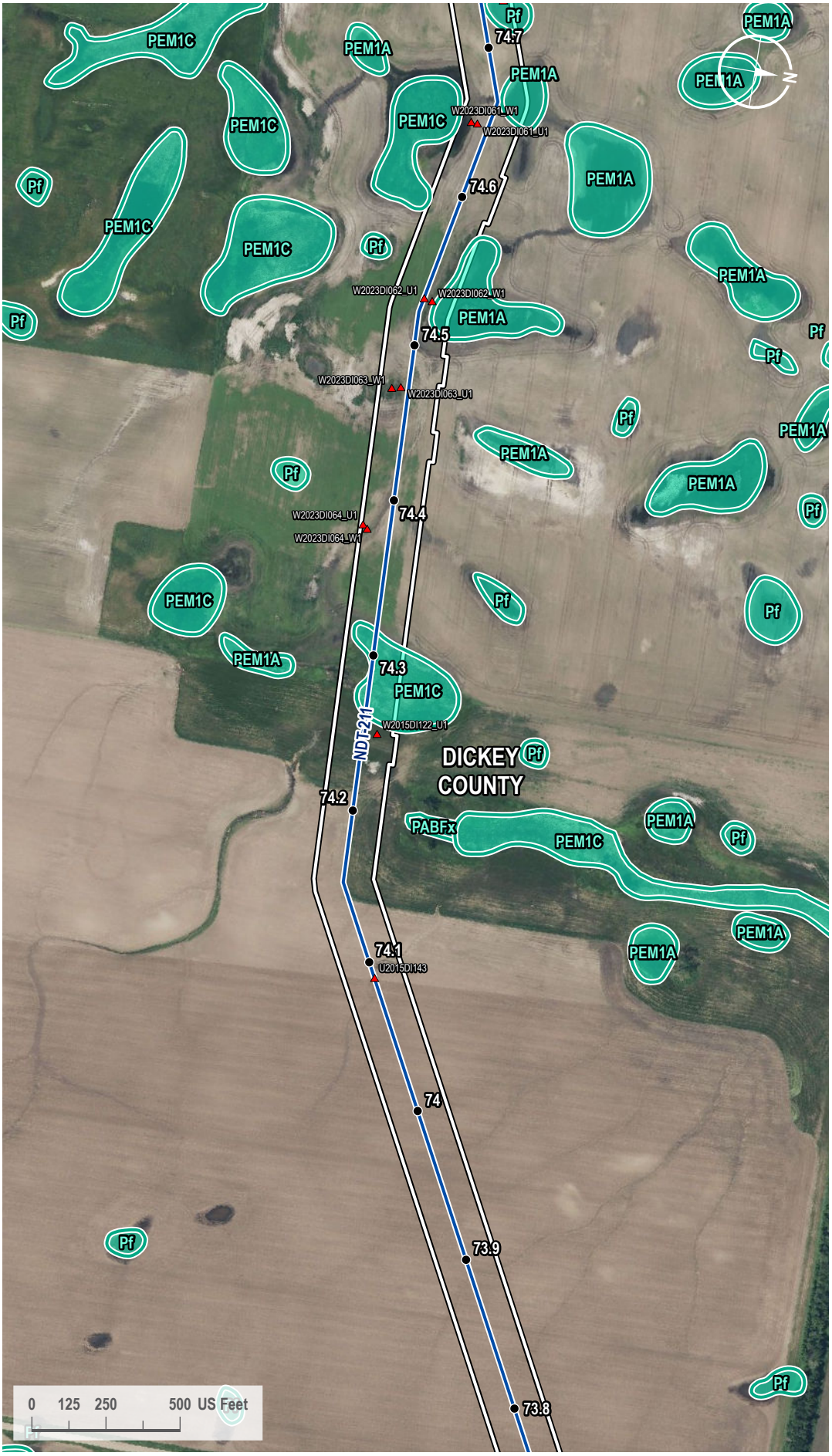

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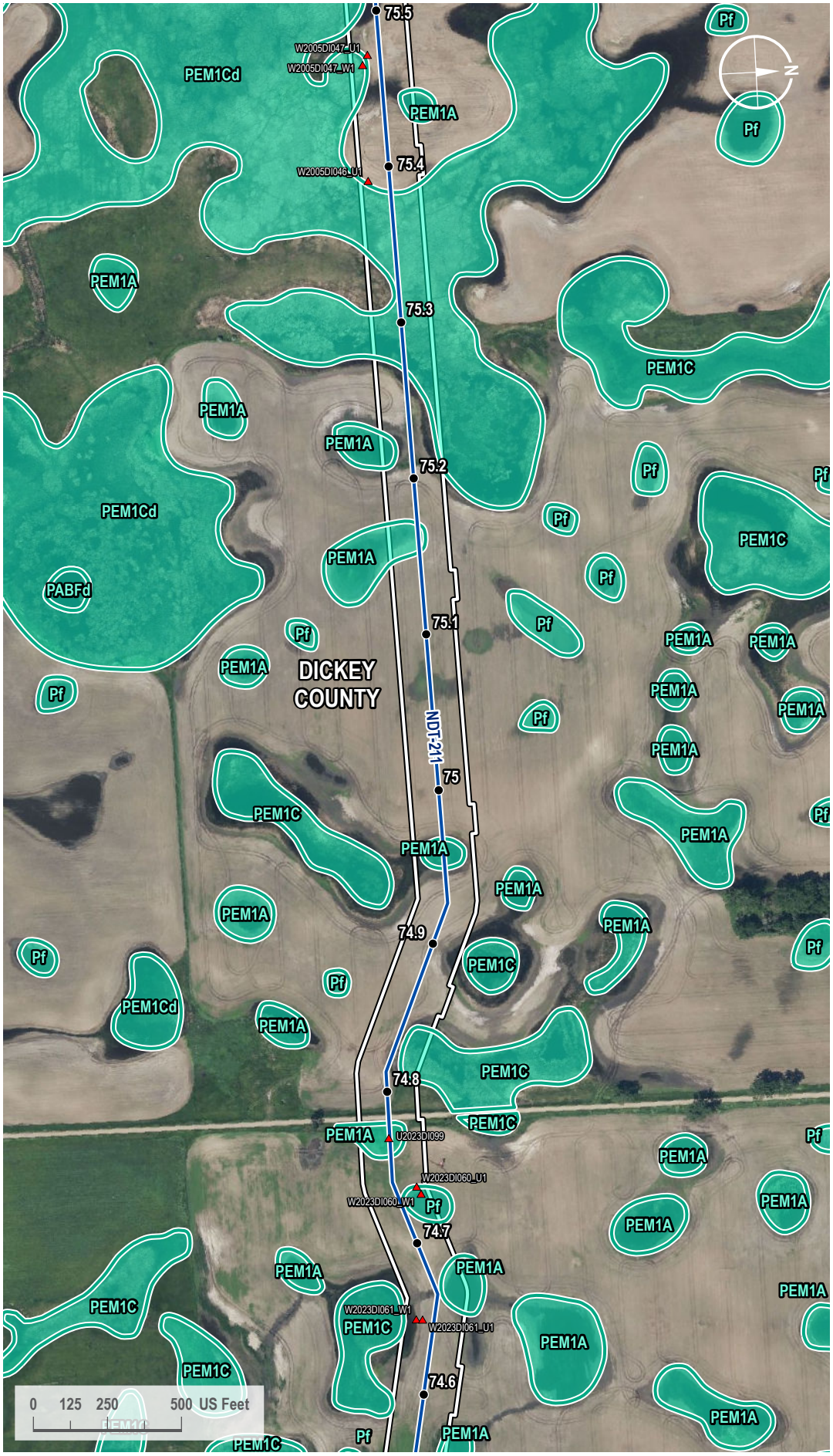

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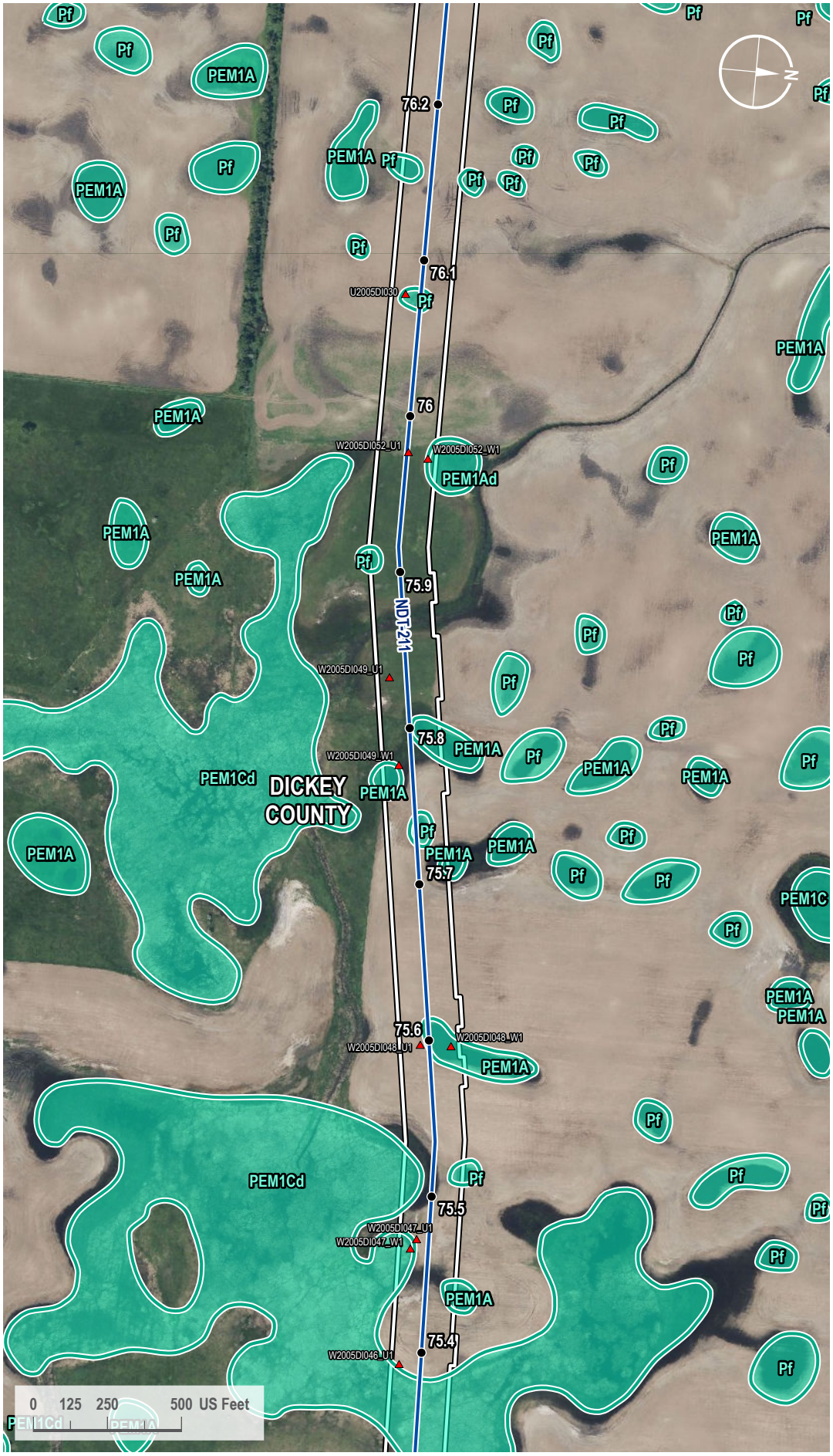

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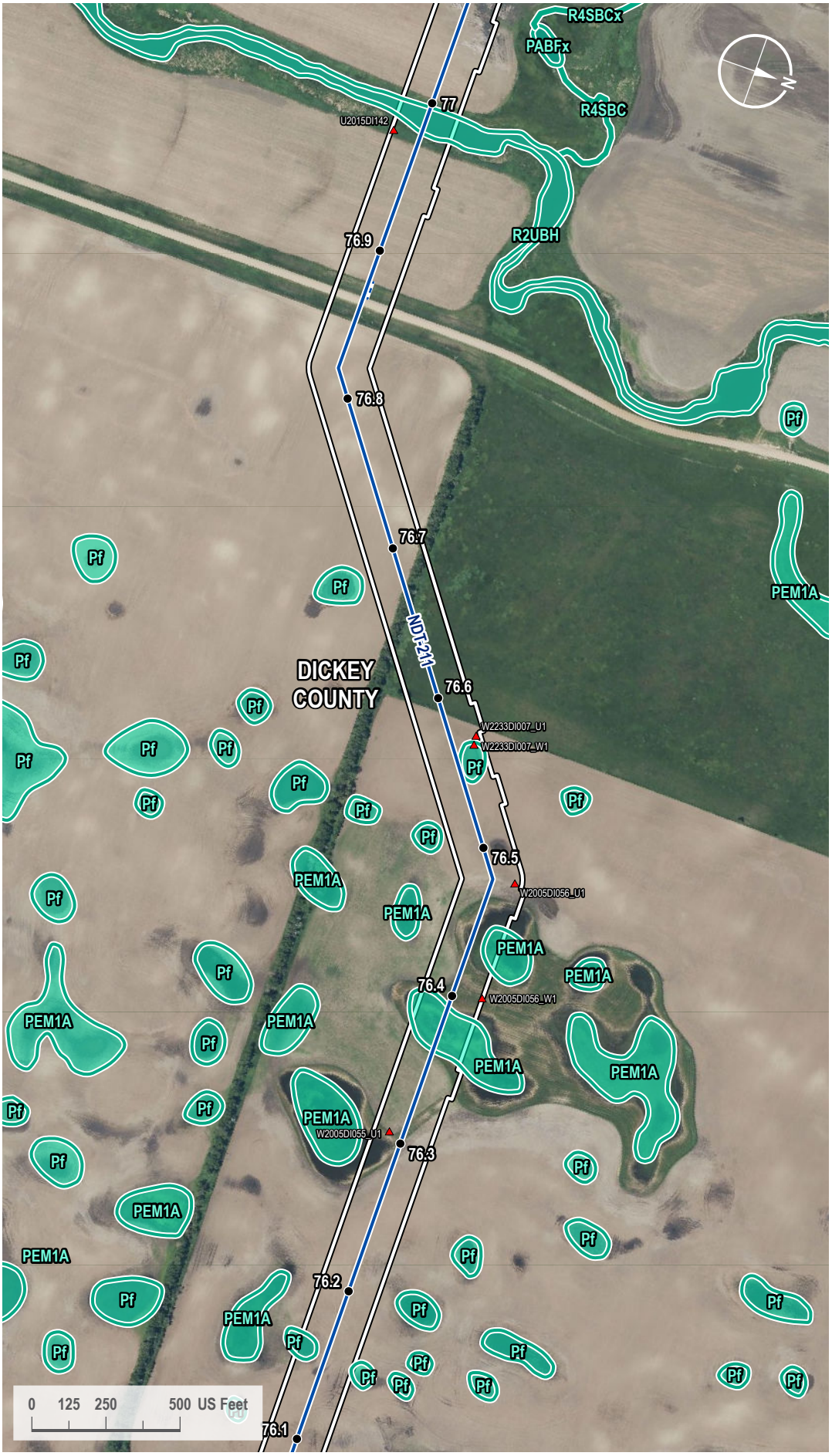

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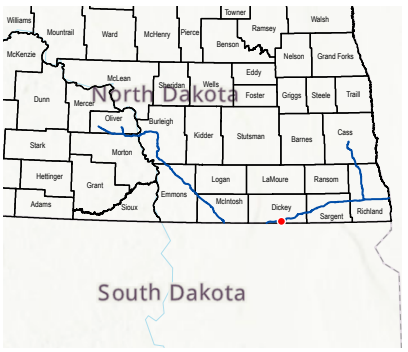

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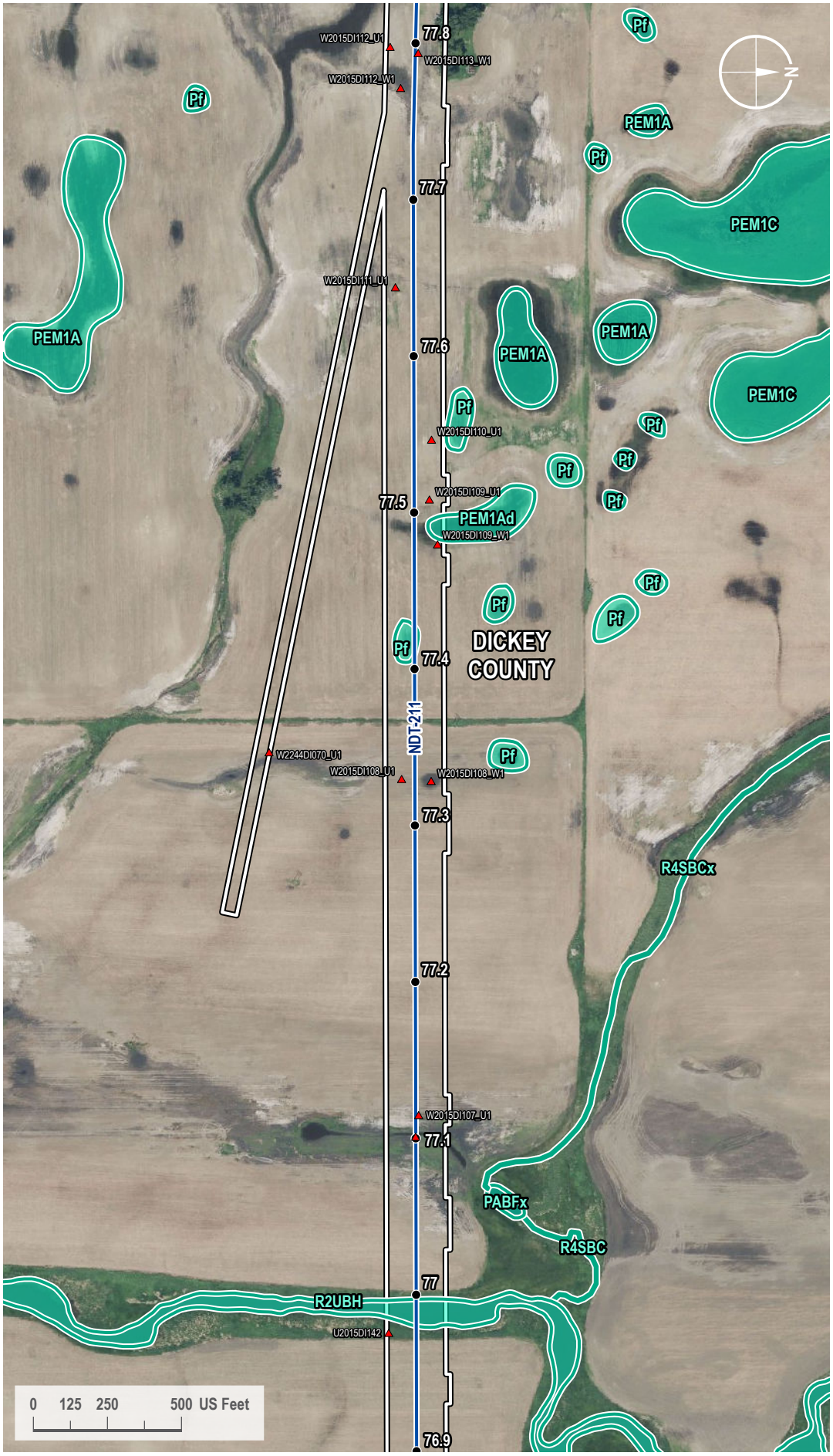

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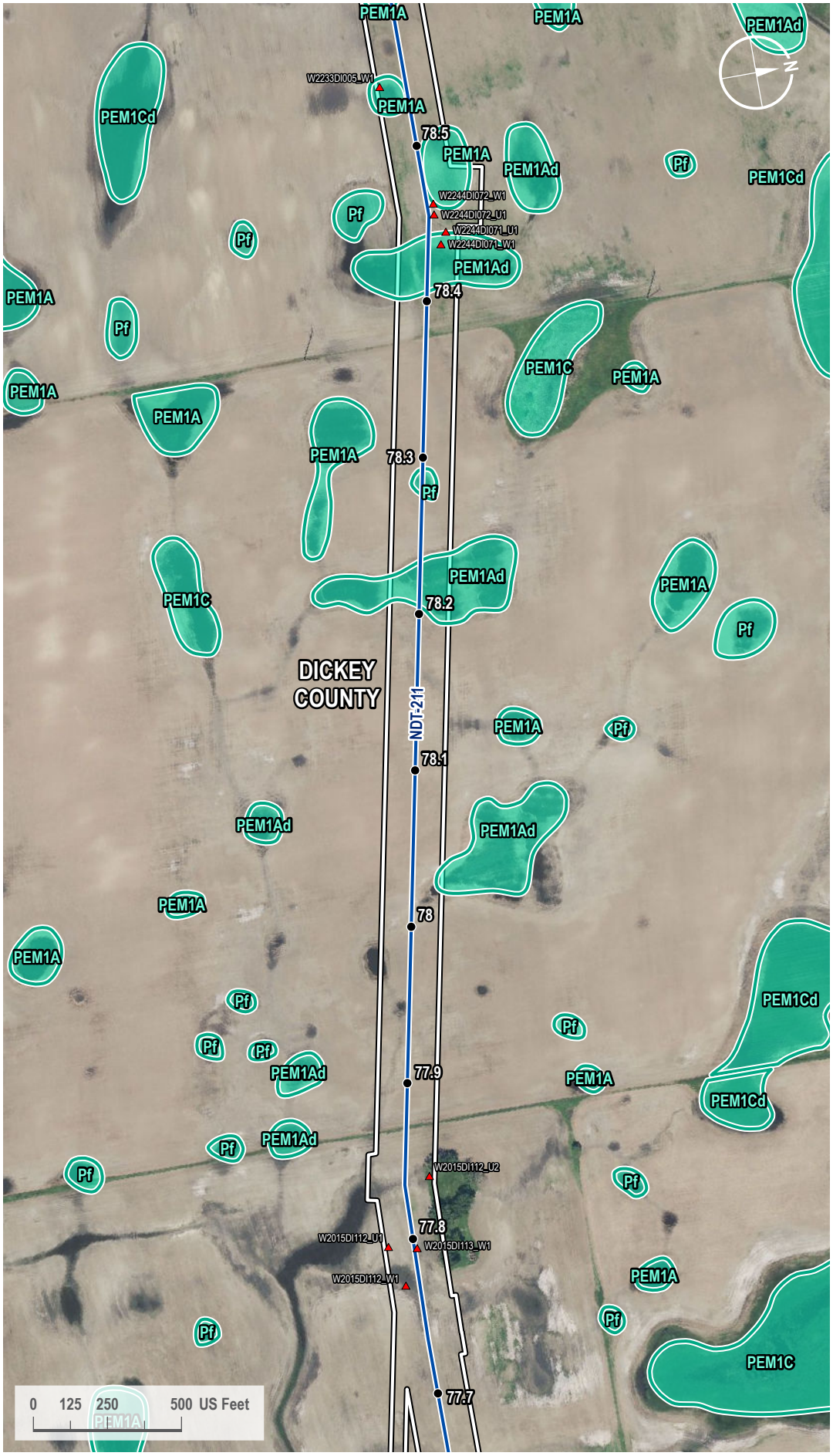

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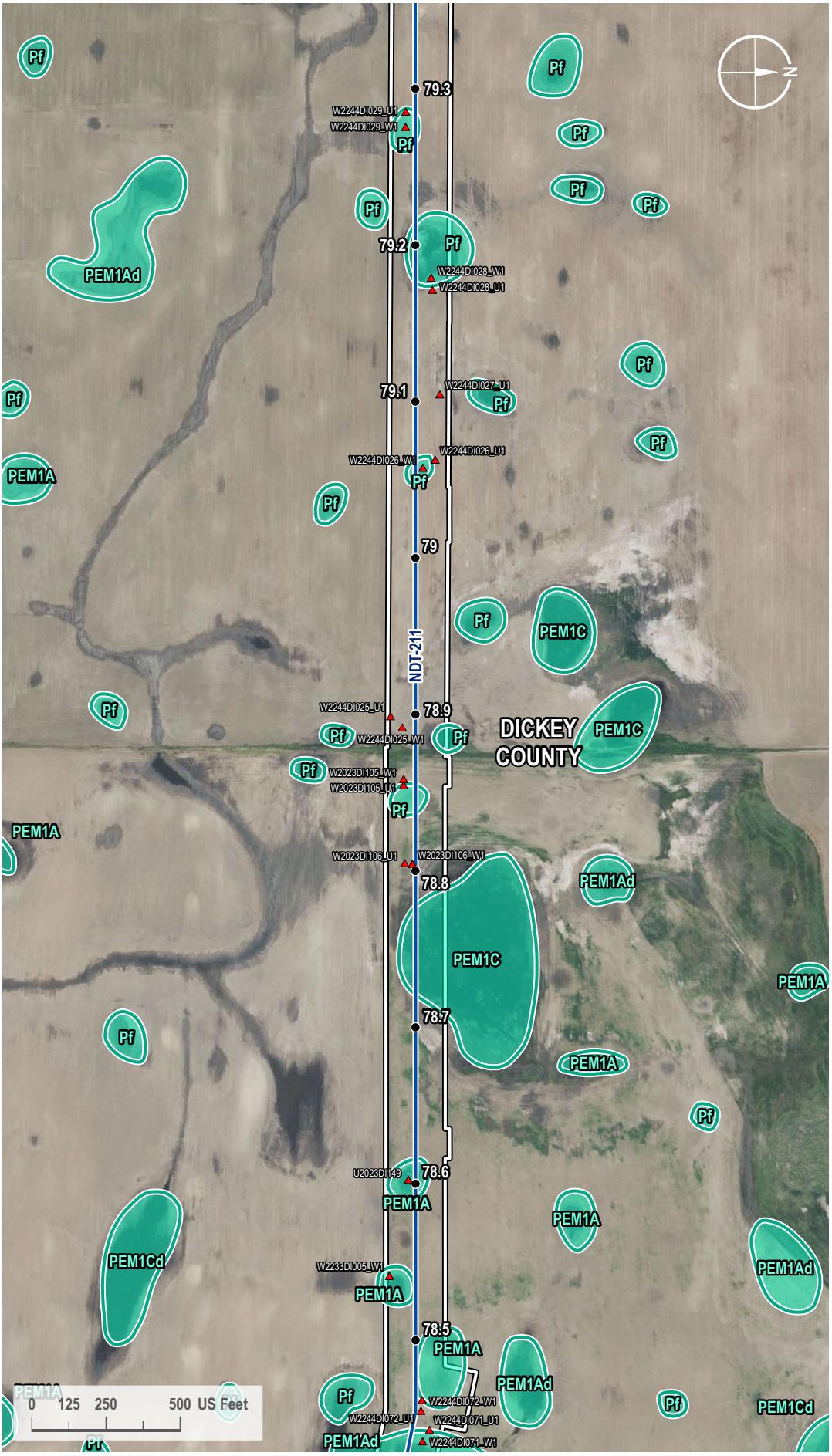

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Figure Title:
NWI Map

Figure Number:
Appendix A-4

Scale:	Projection:
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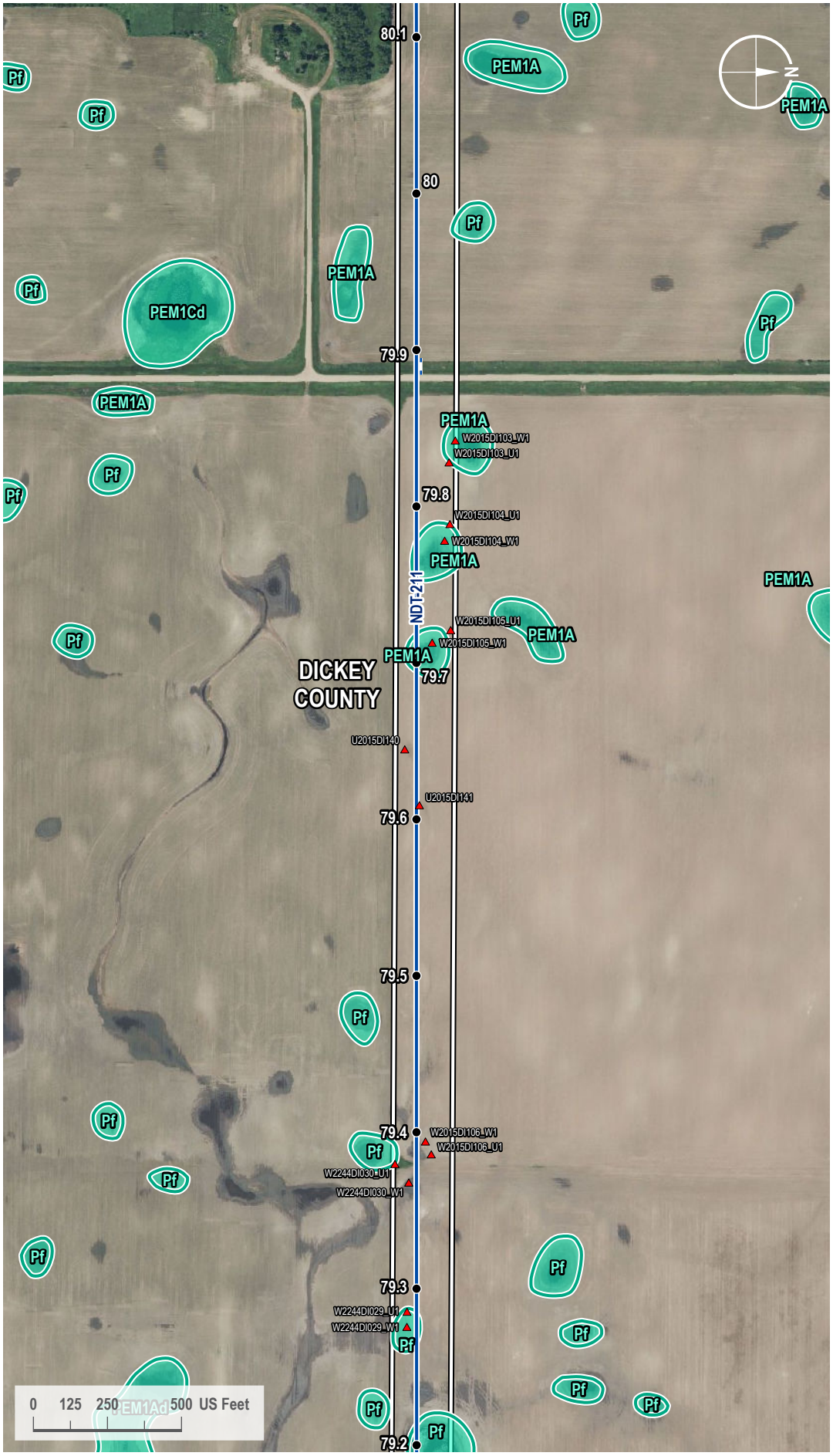

VICINITY MAP



LEGEND

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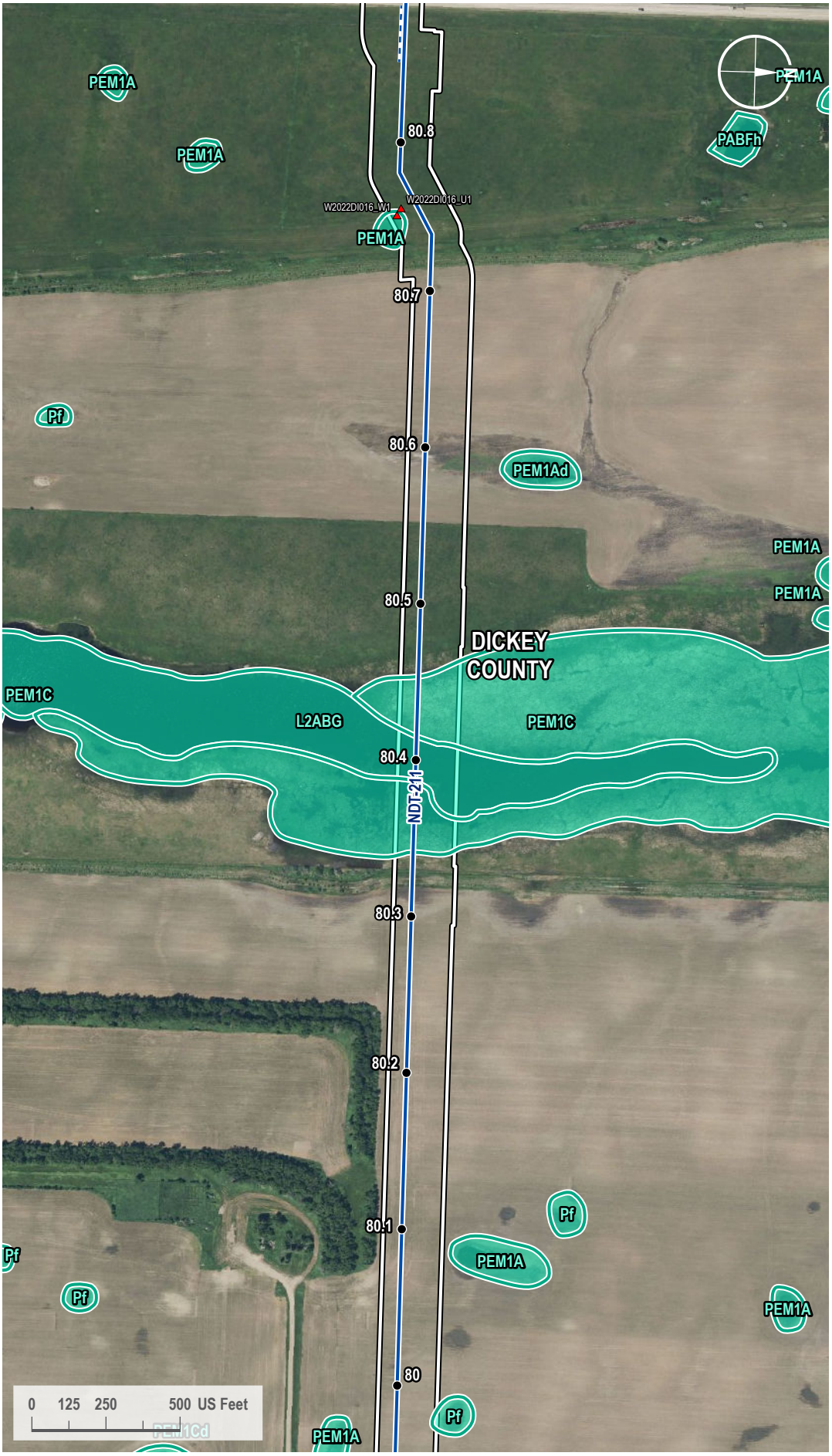

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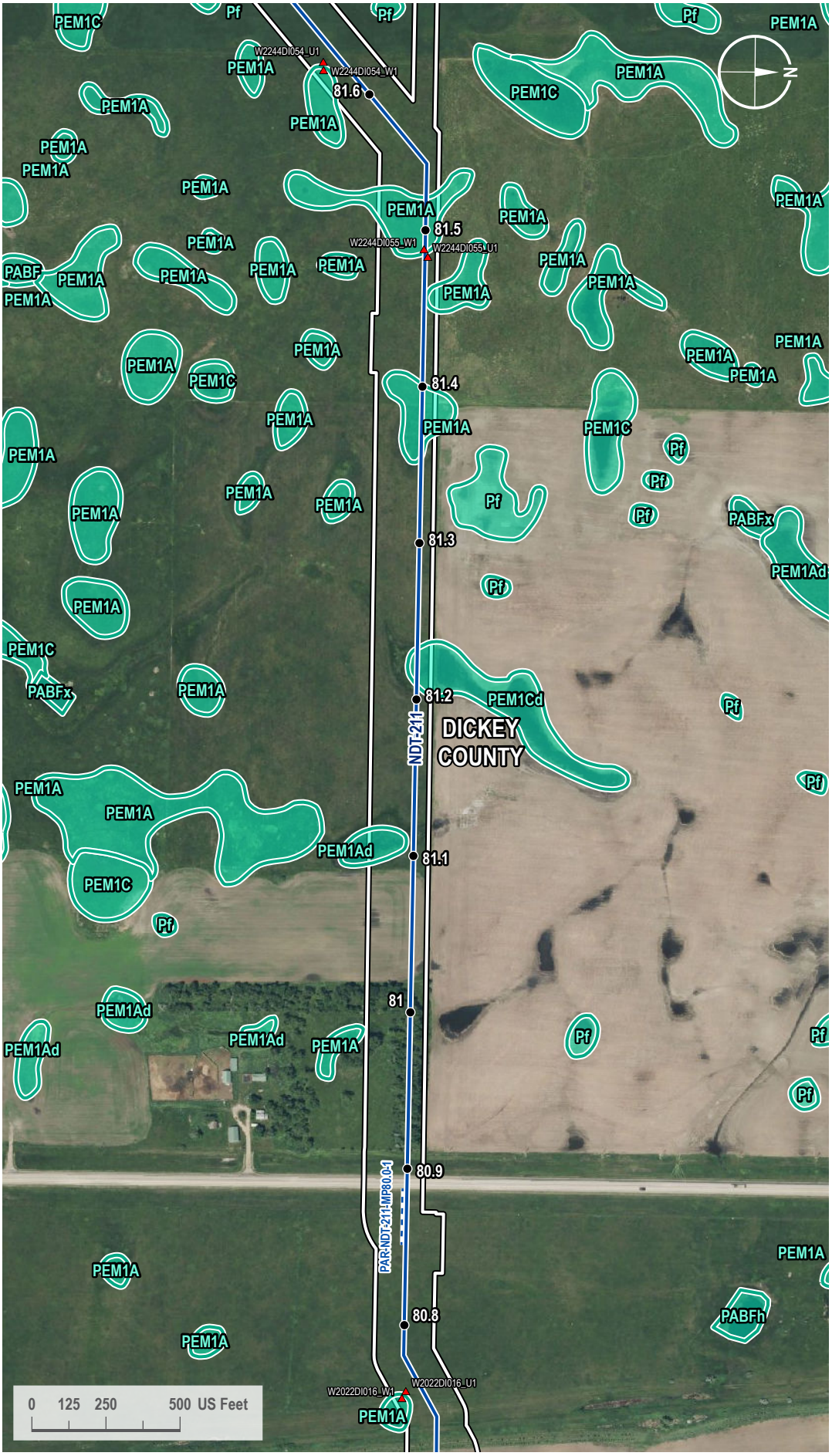

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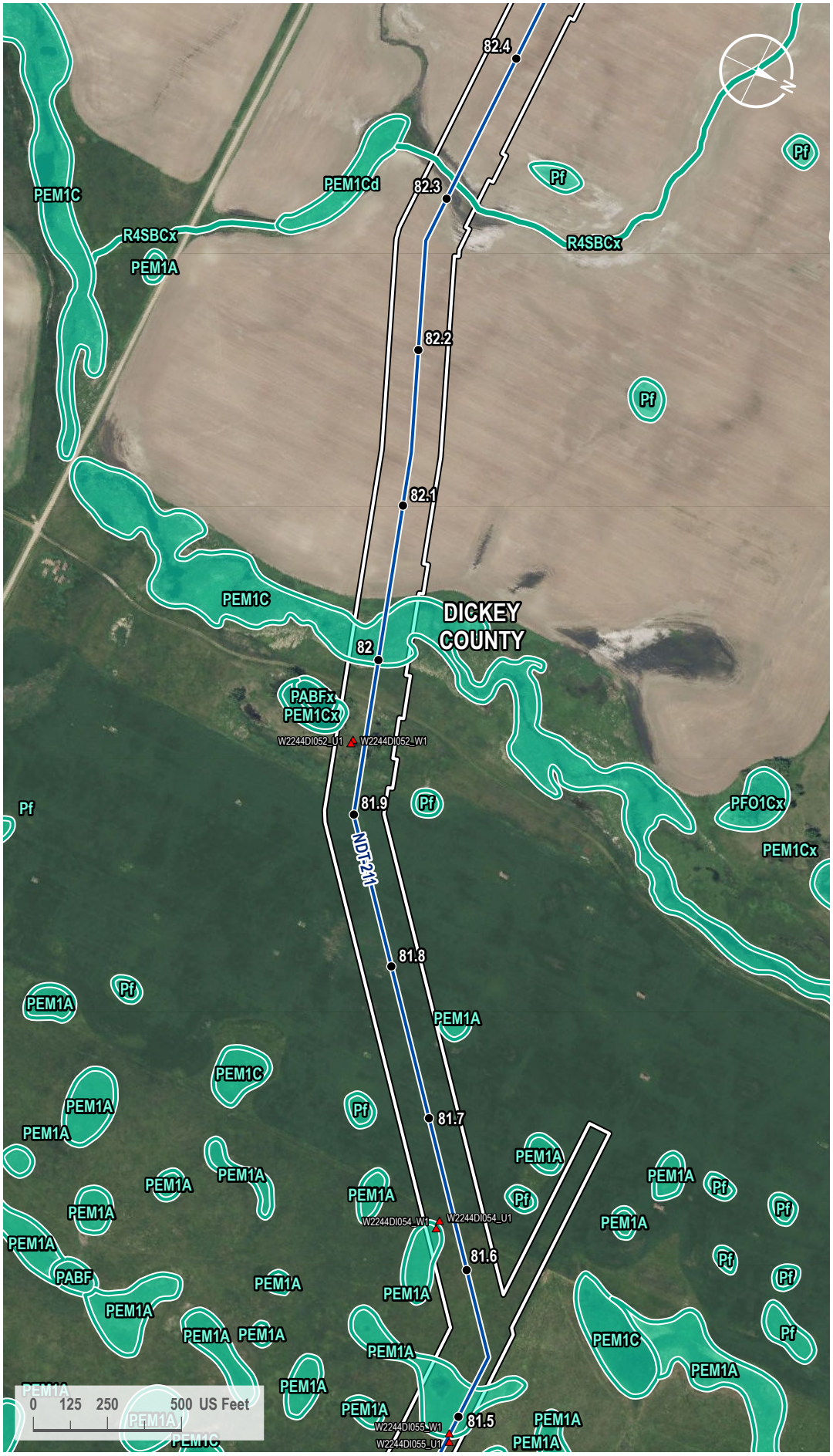

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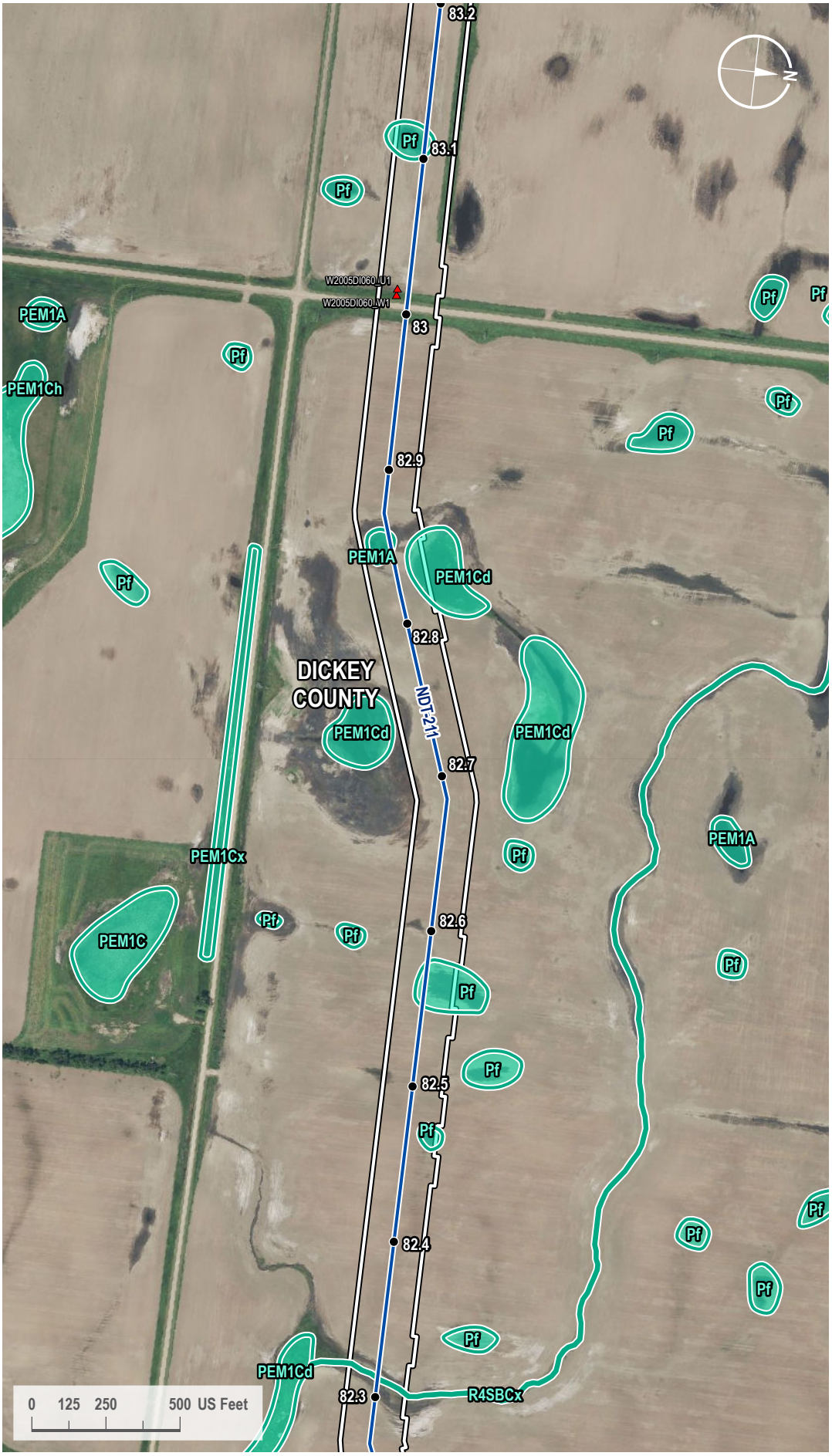

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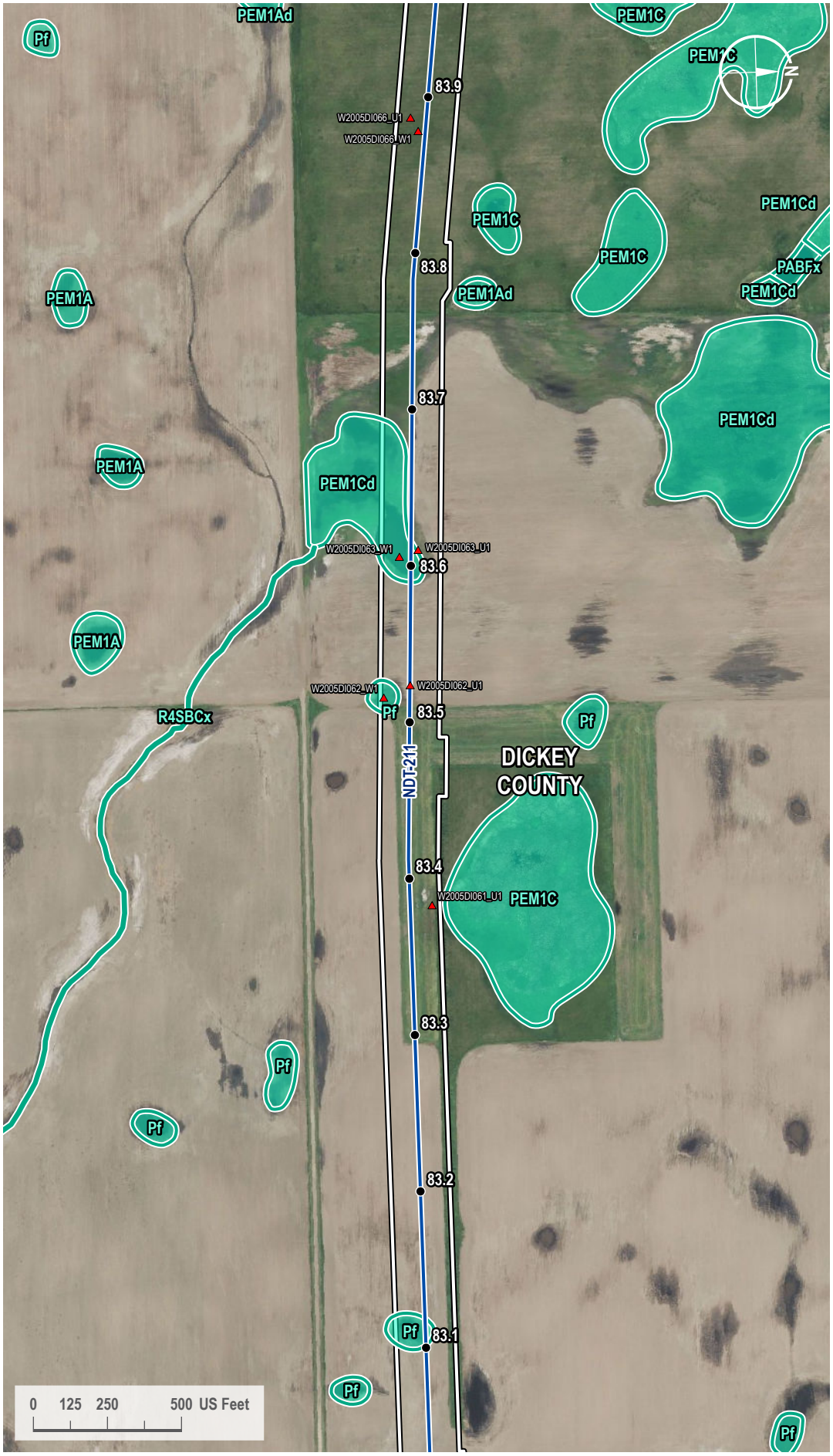

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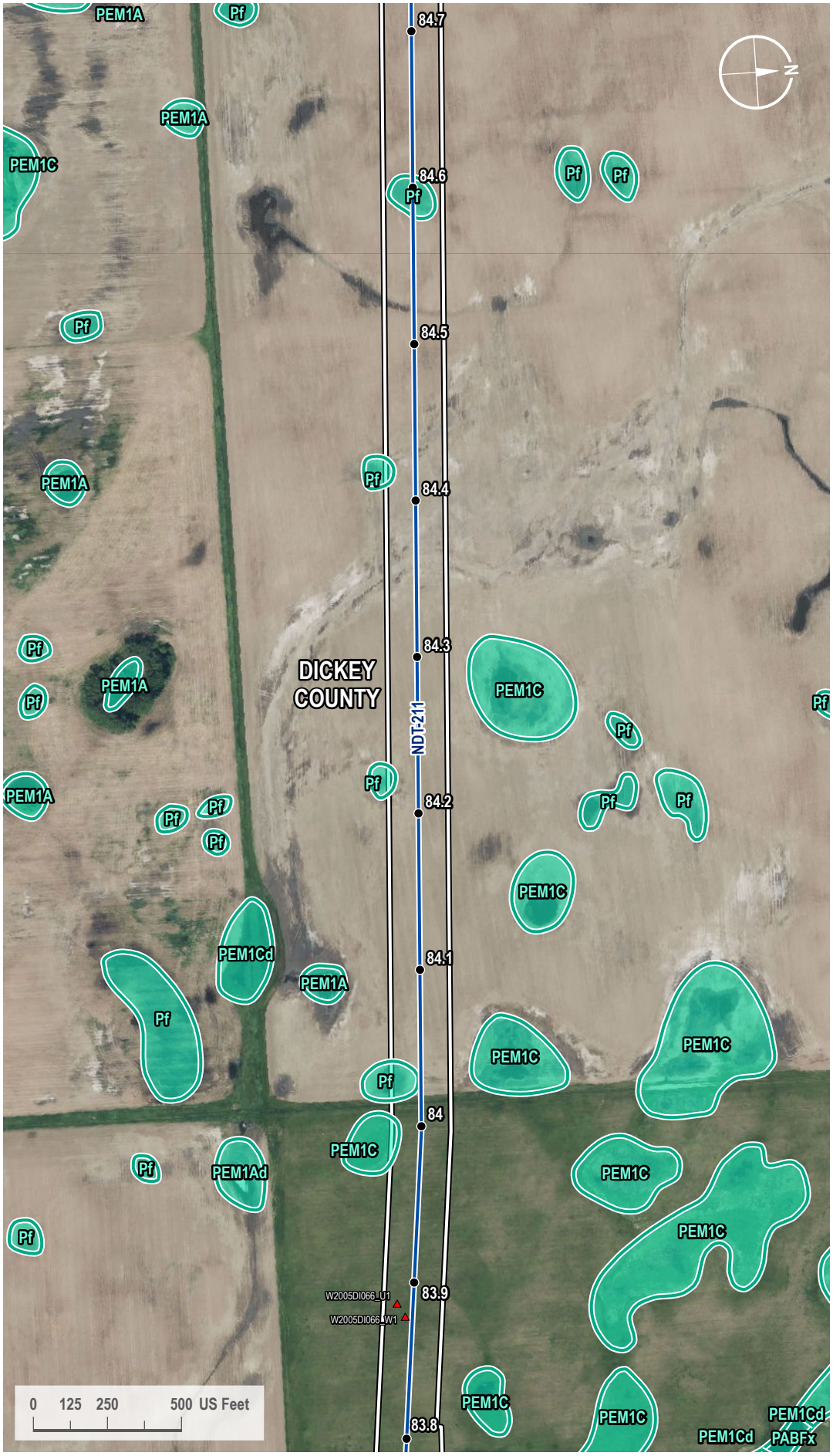

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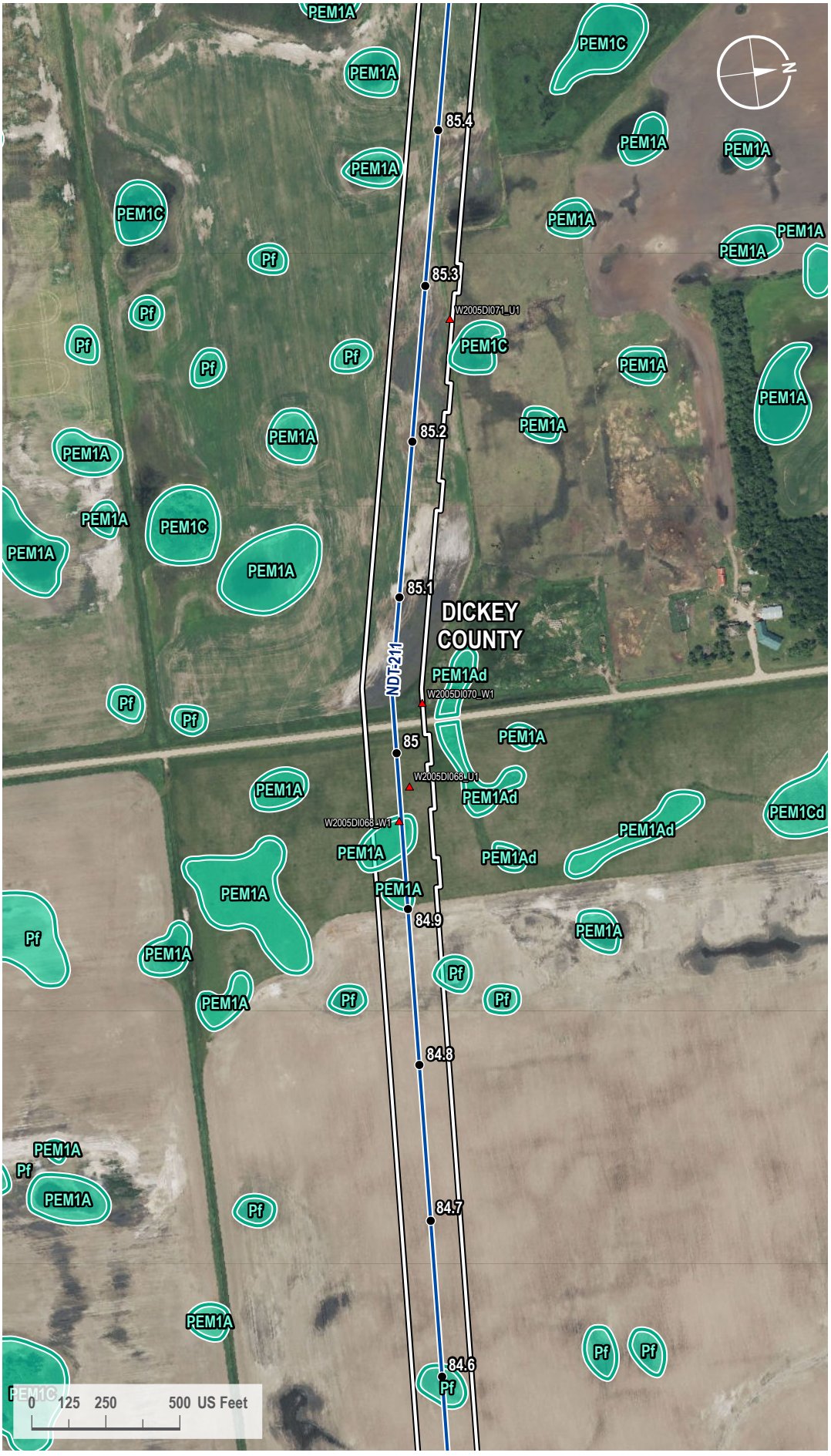

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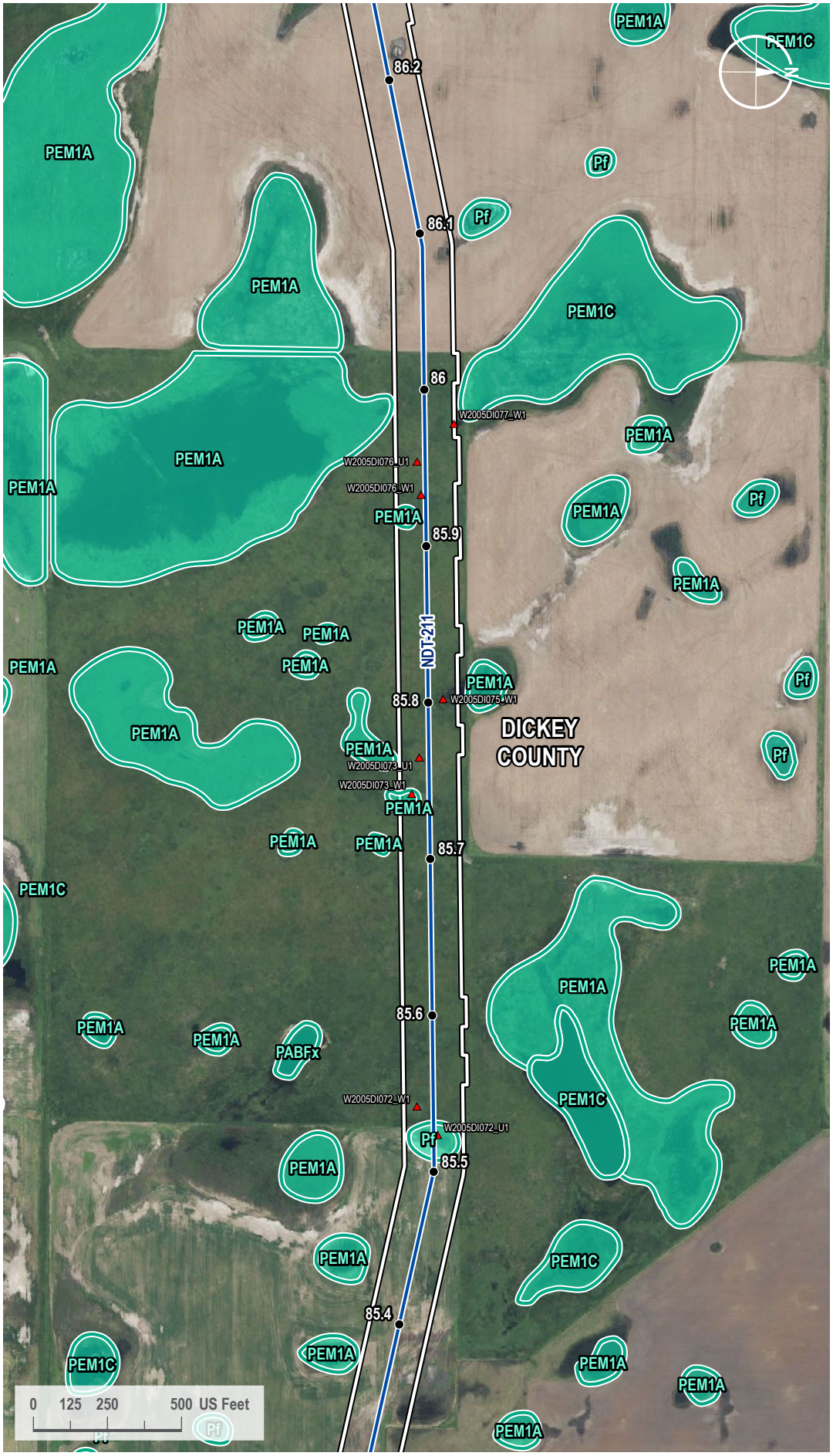

VICINITY MAP



LEGEND

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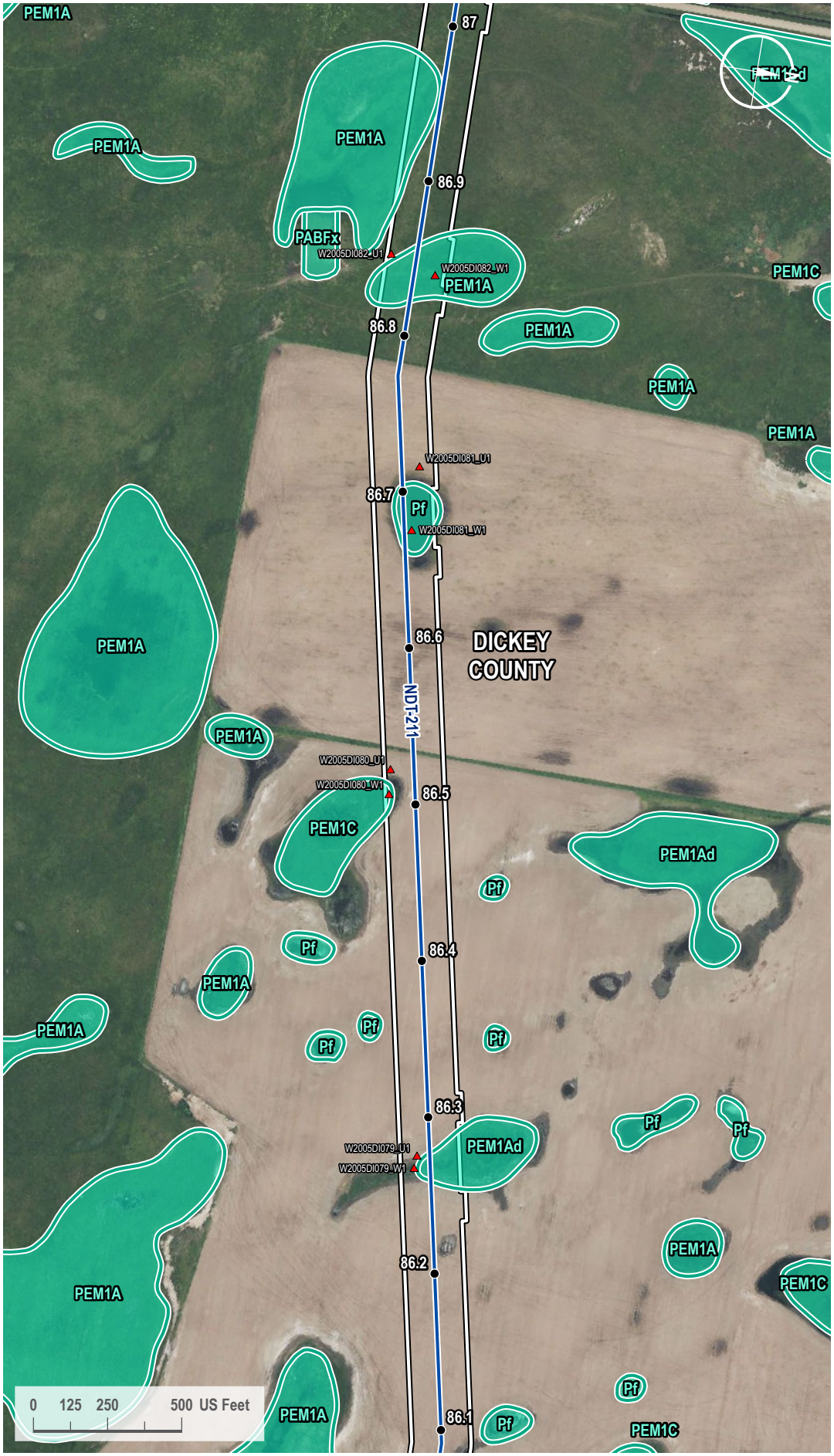

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- Milepost
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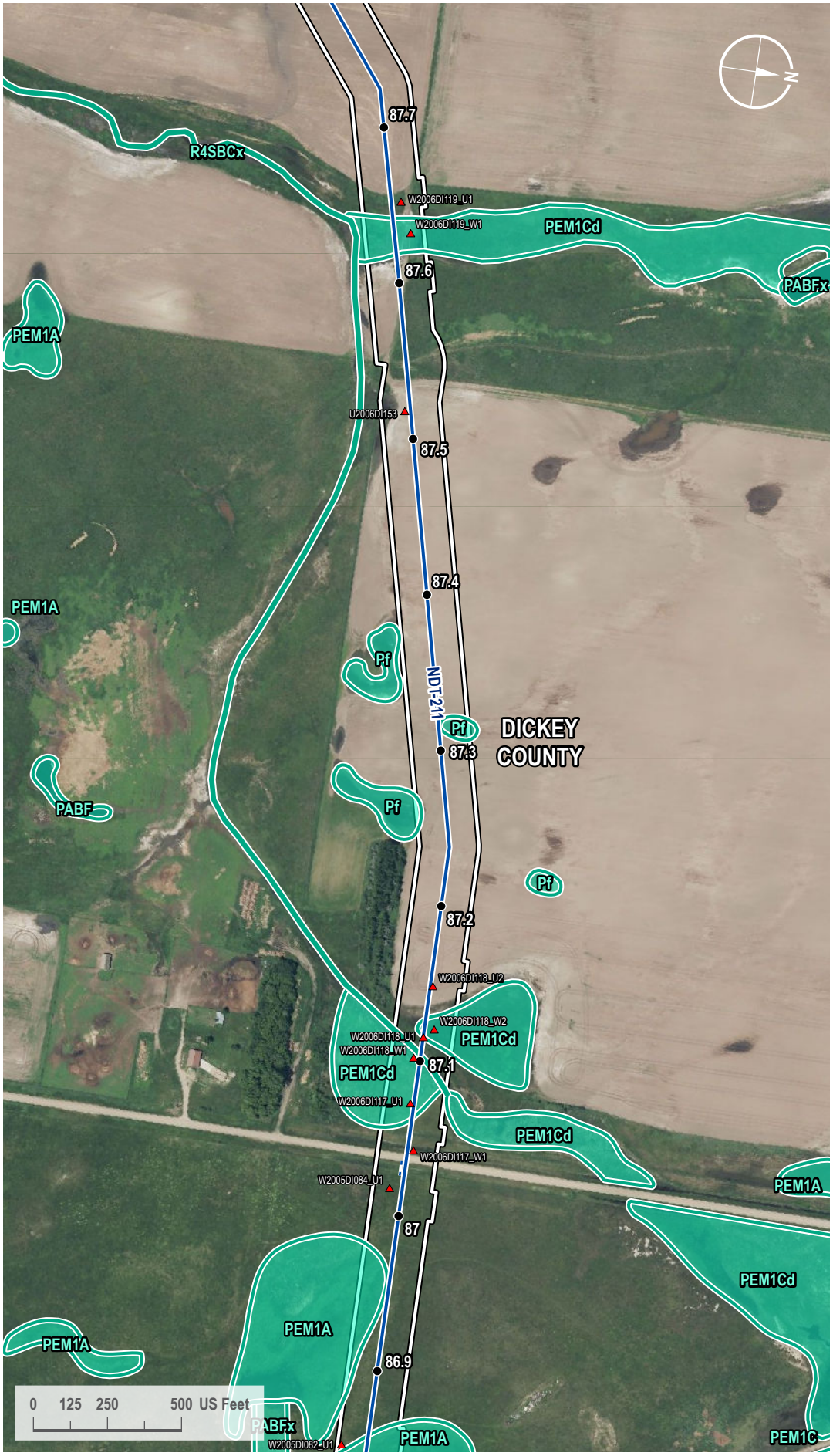

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
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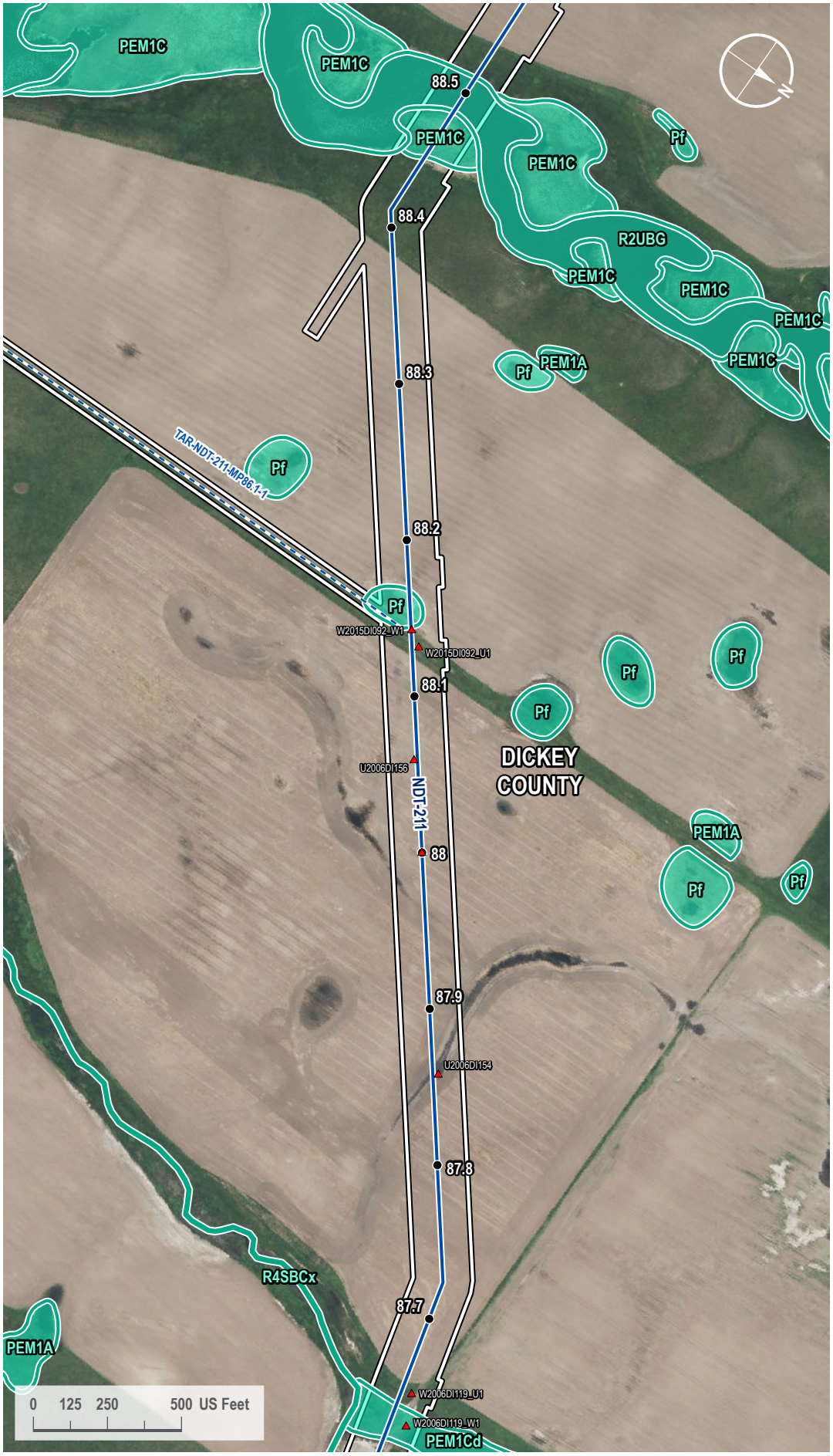

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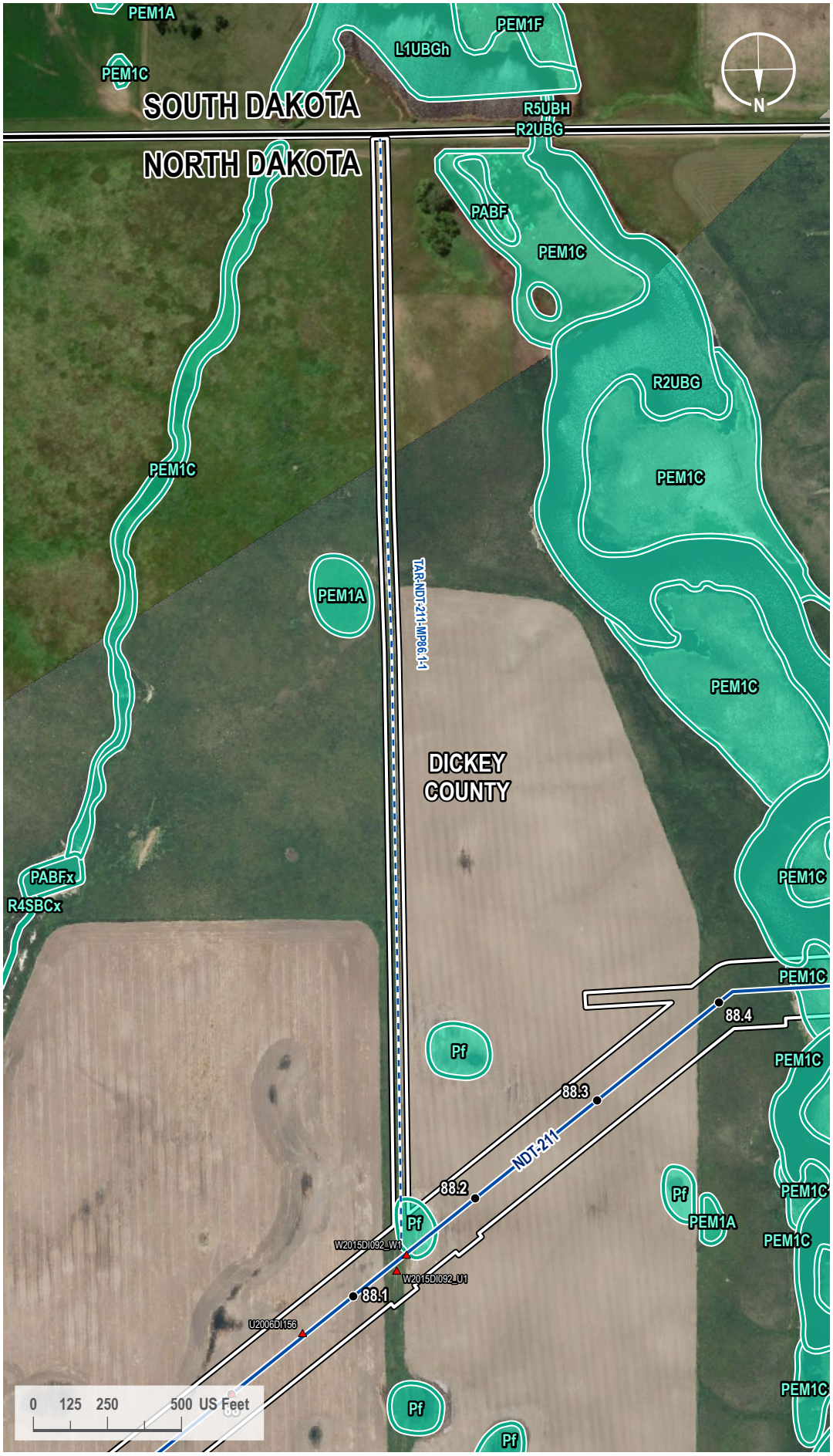

VICINITY MAP



LEGEND

- Milepost
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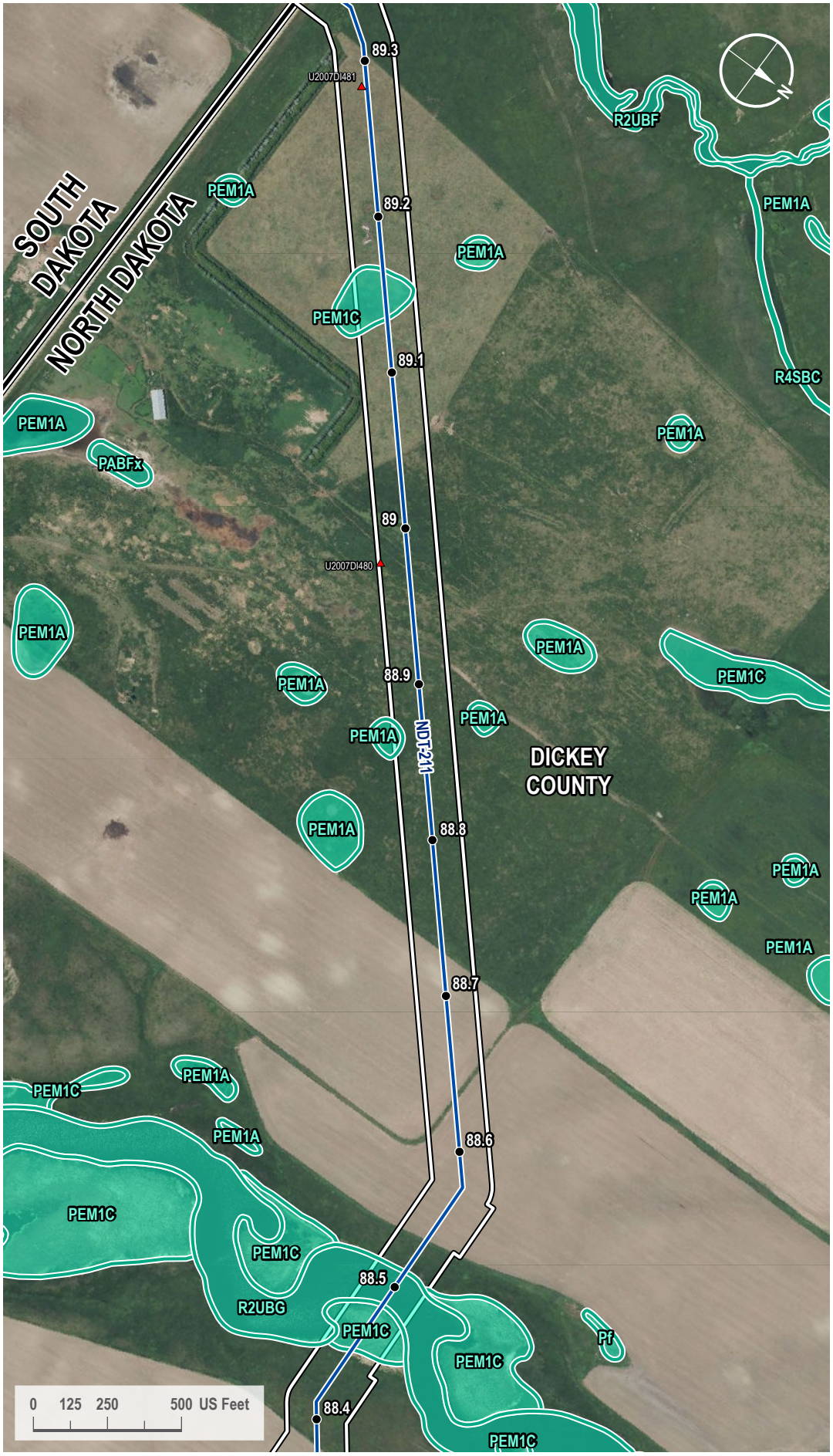

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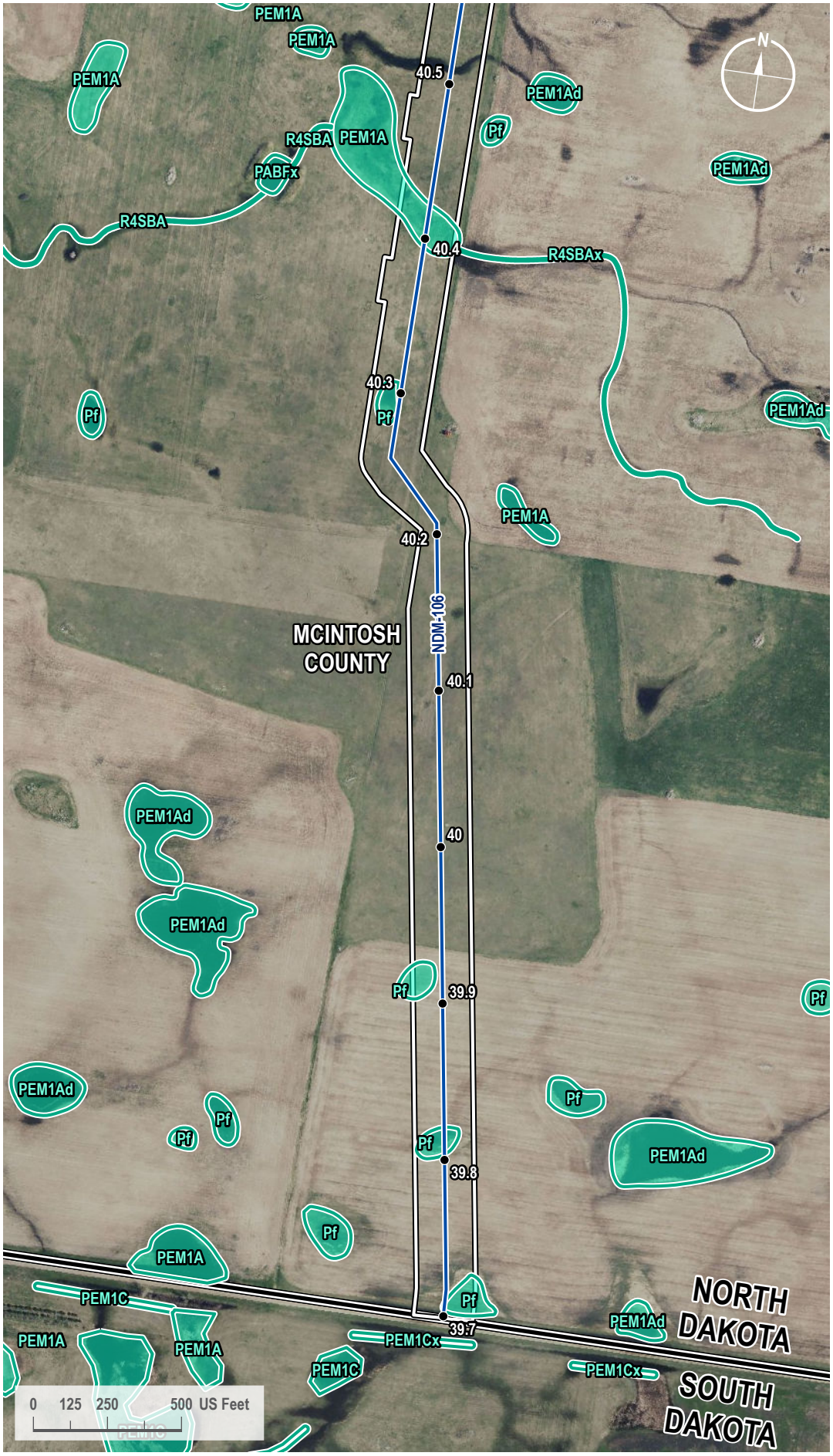

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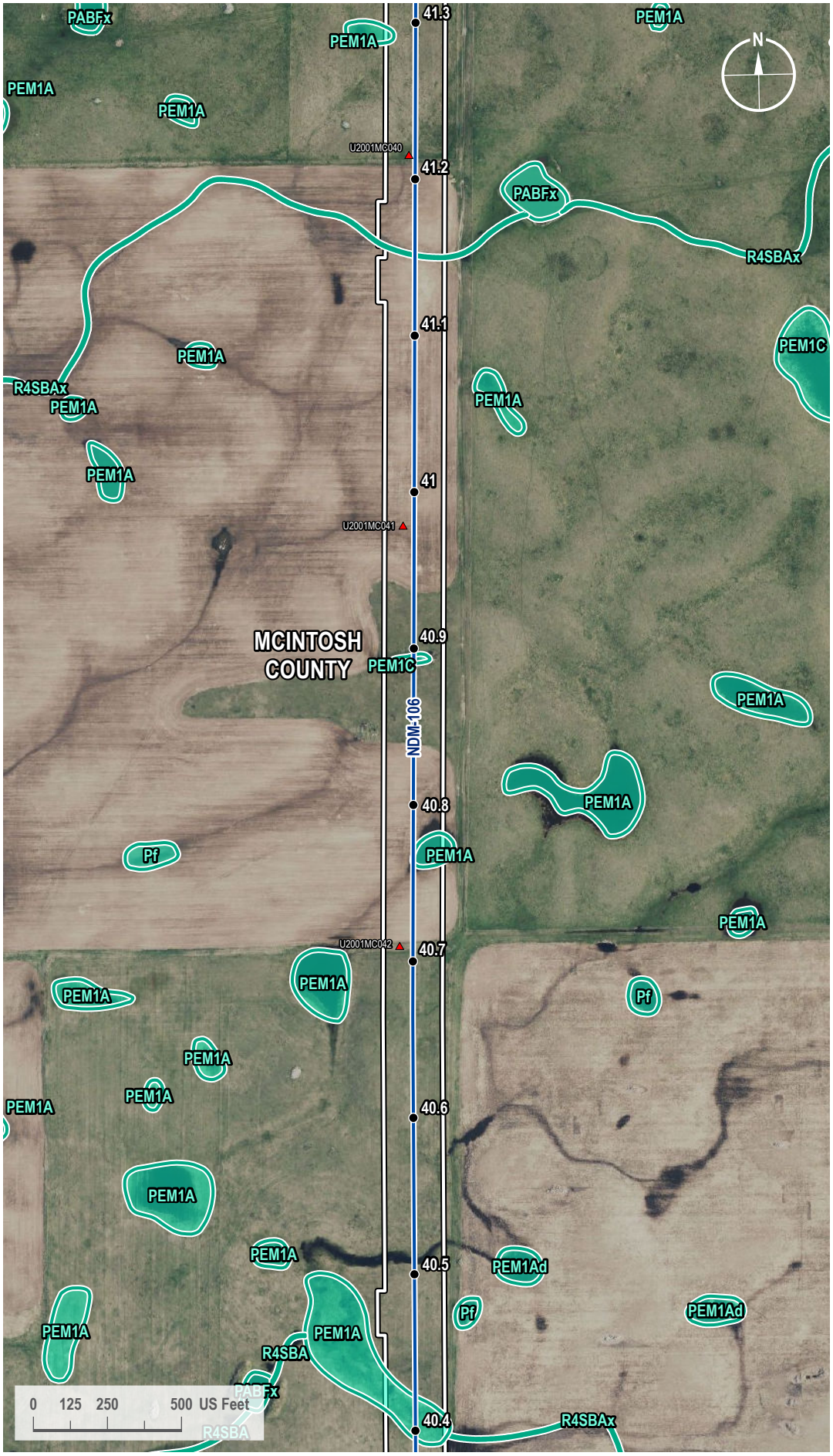

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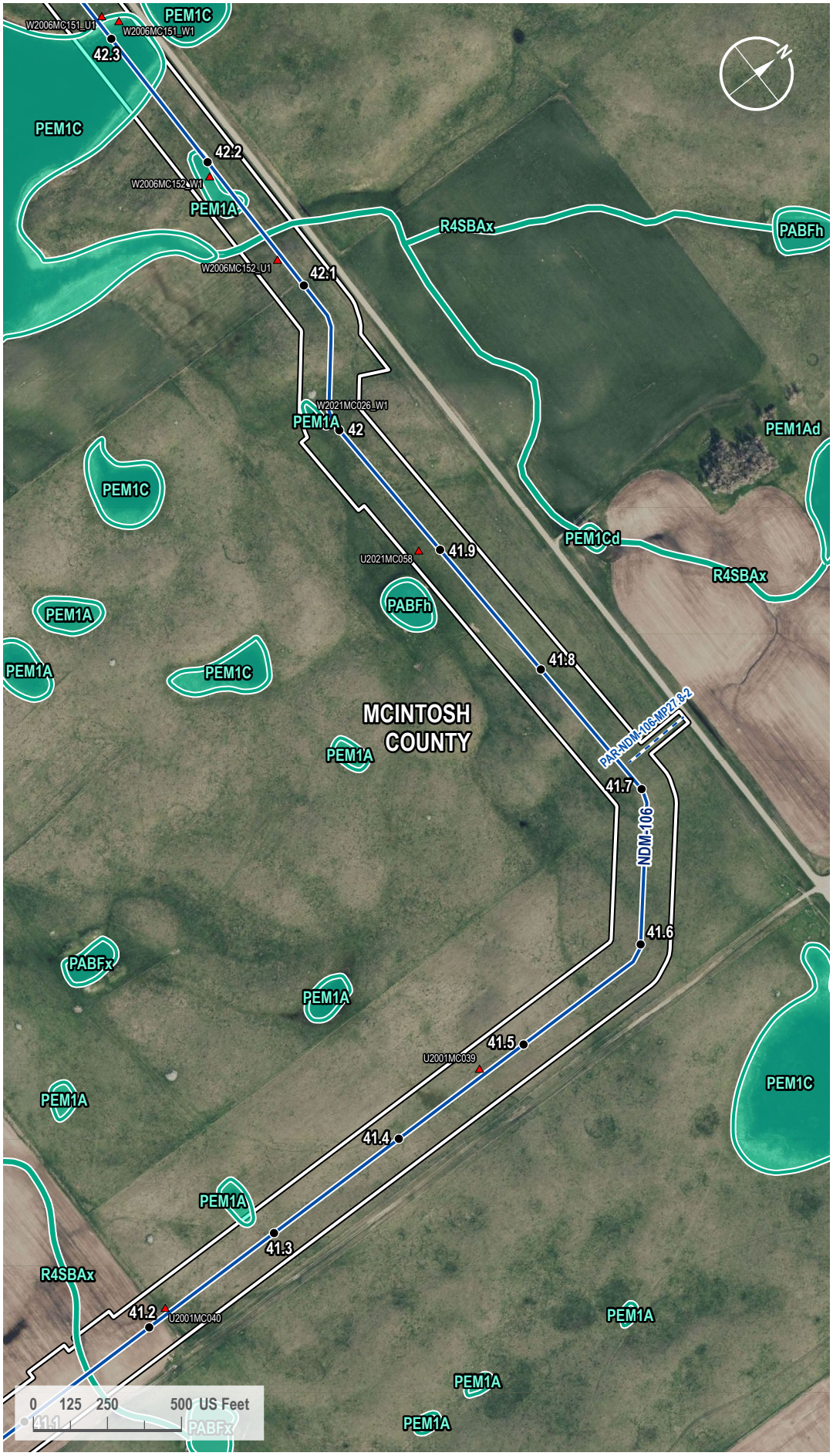

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

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Figure Title:
NWI Map

Figure Number:
Appendix A-4

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
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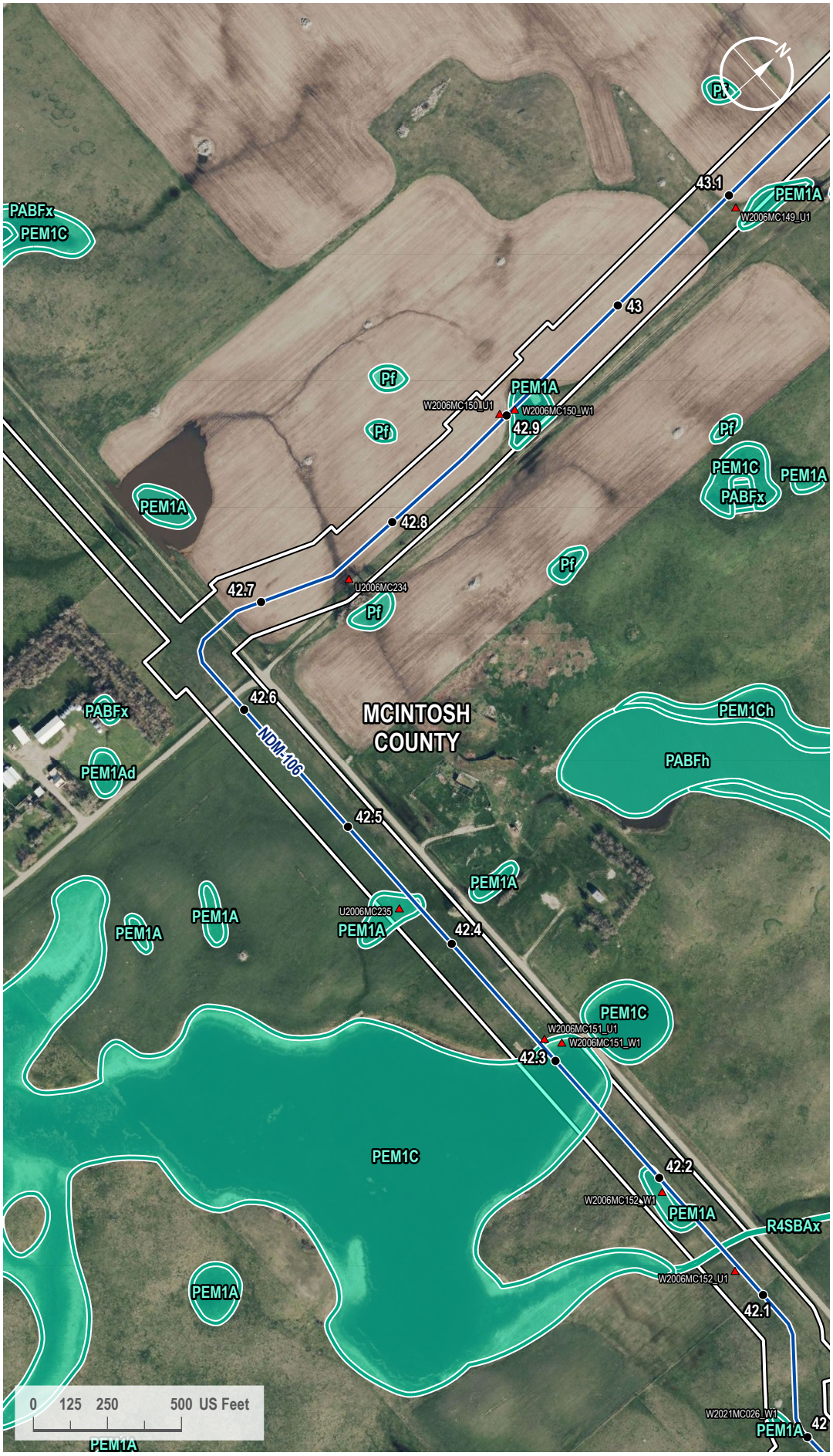

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
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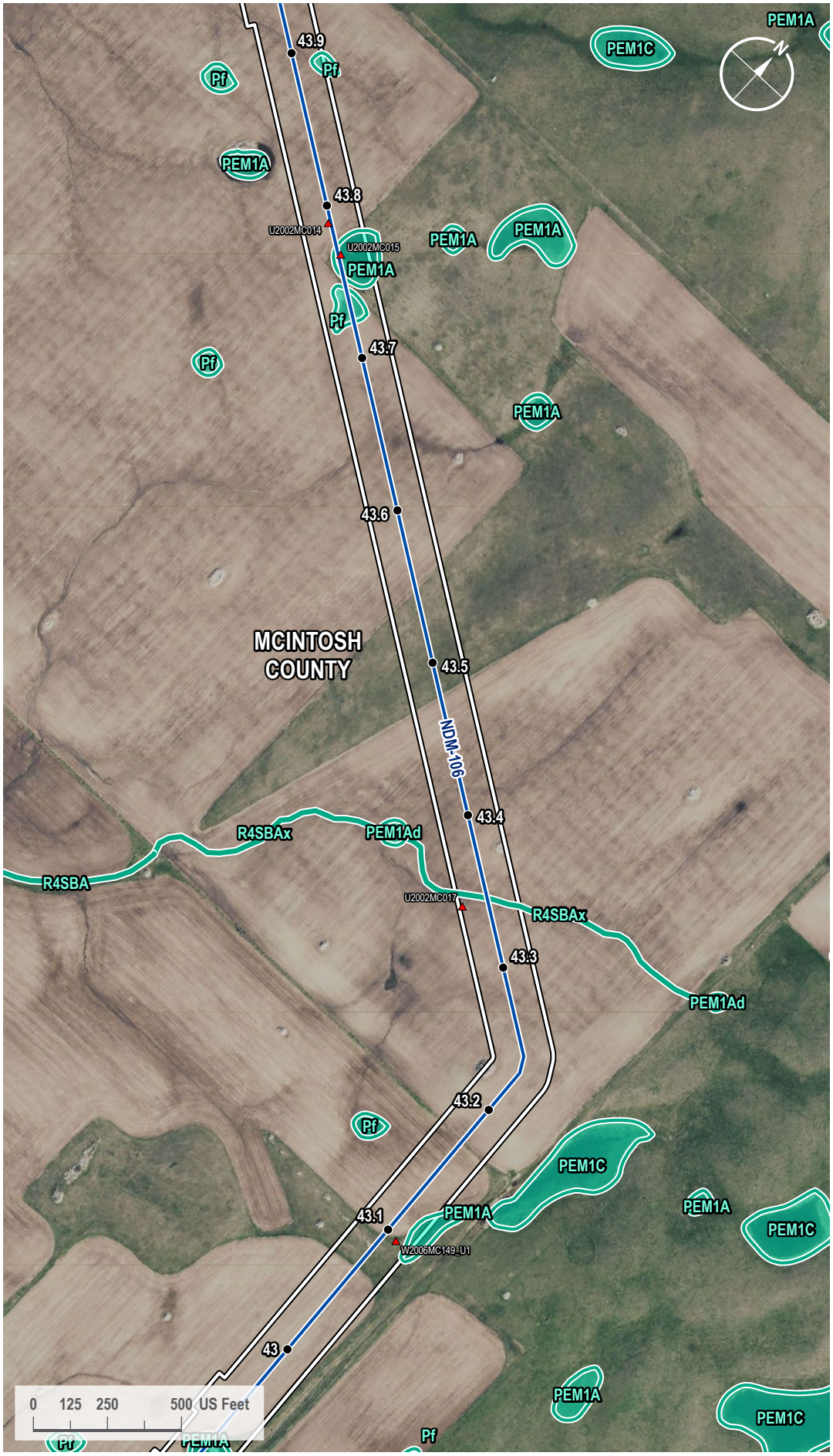

VICINITY MAP



LEGEND

- Milepost
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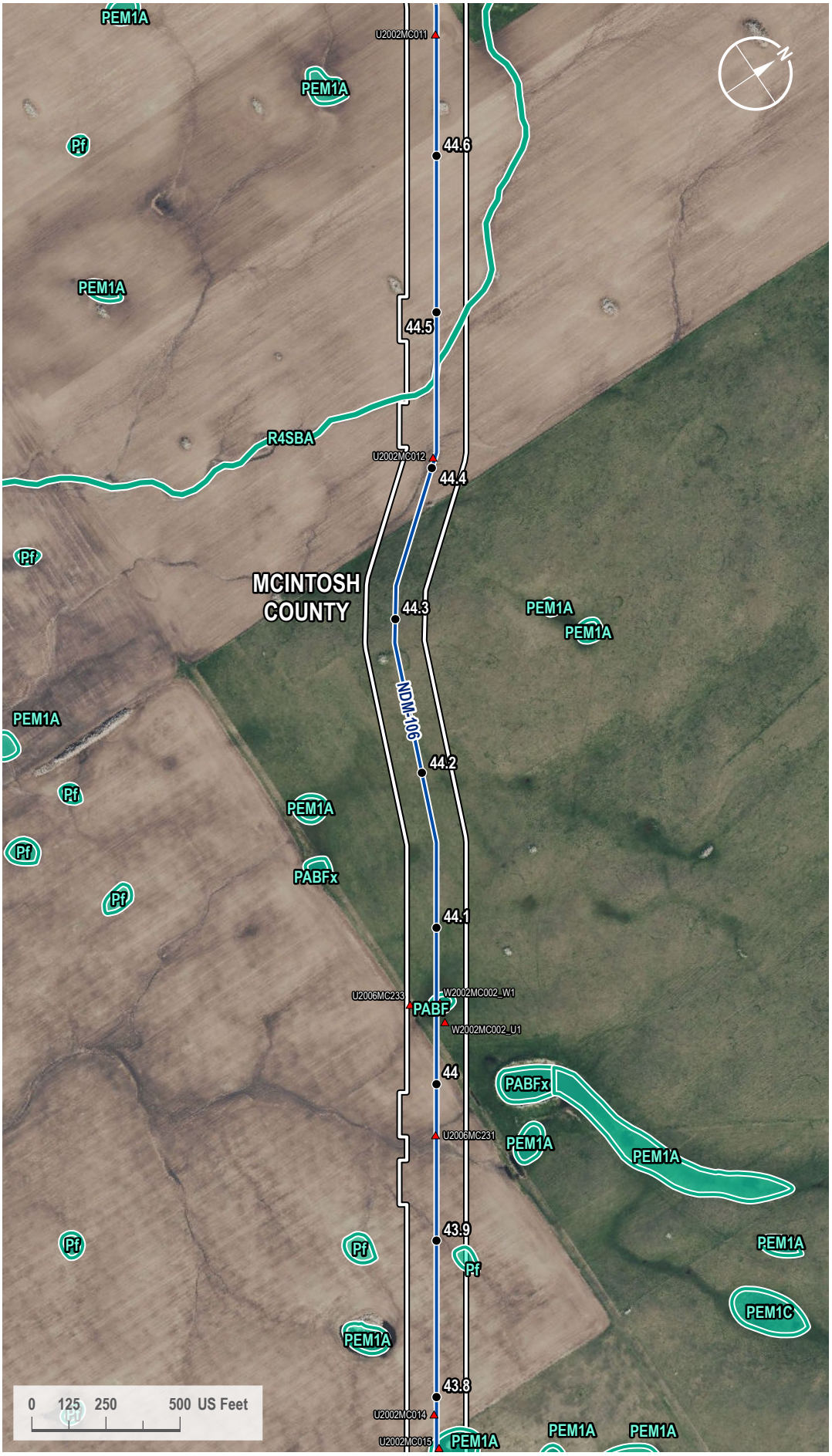

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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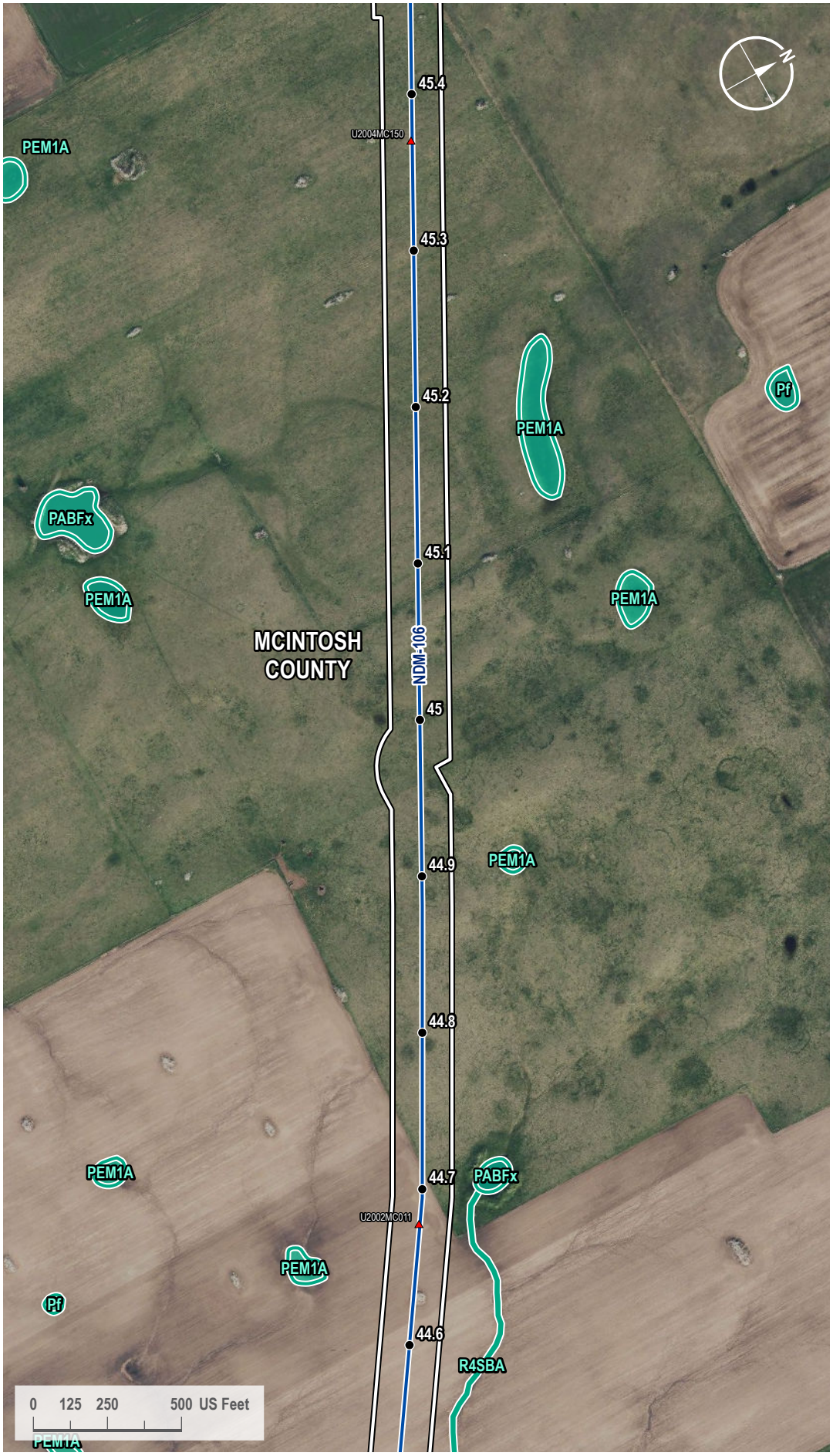

VICINITY MAP



LEGEND

- Milepost
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
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- 200-foot Siting Corridor
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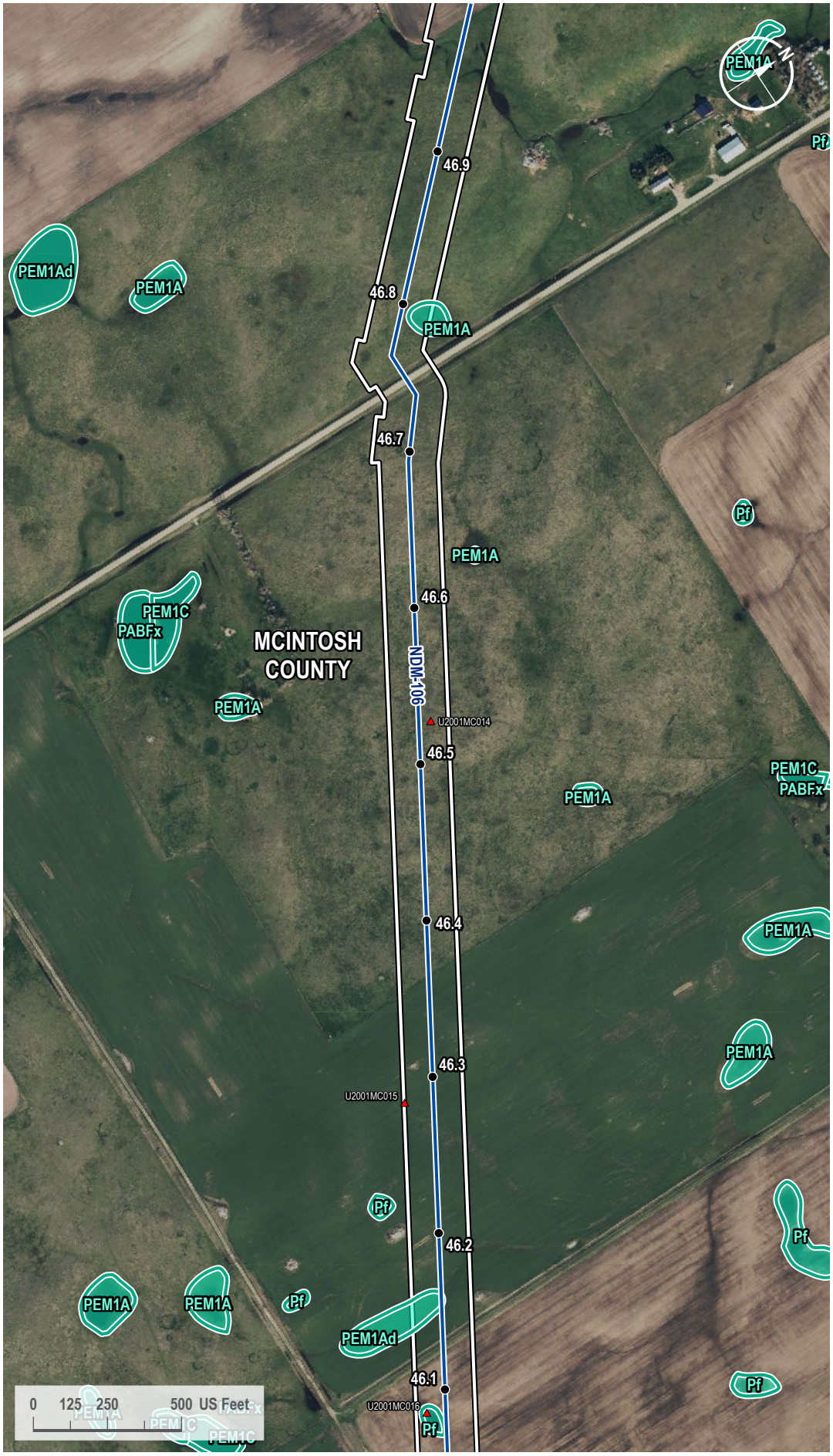

VICINITY MAP



LEGEND

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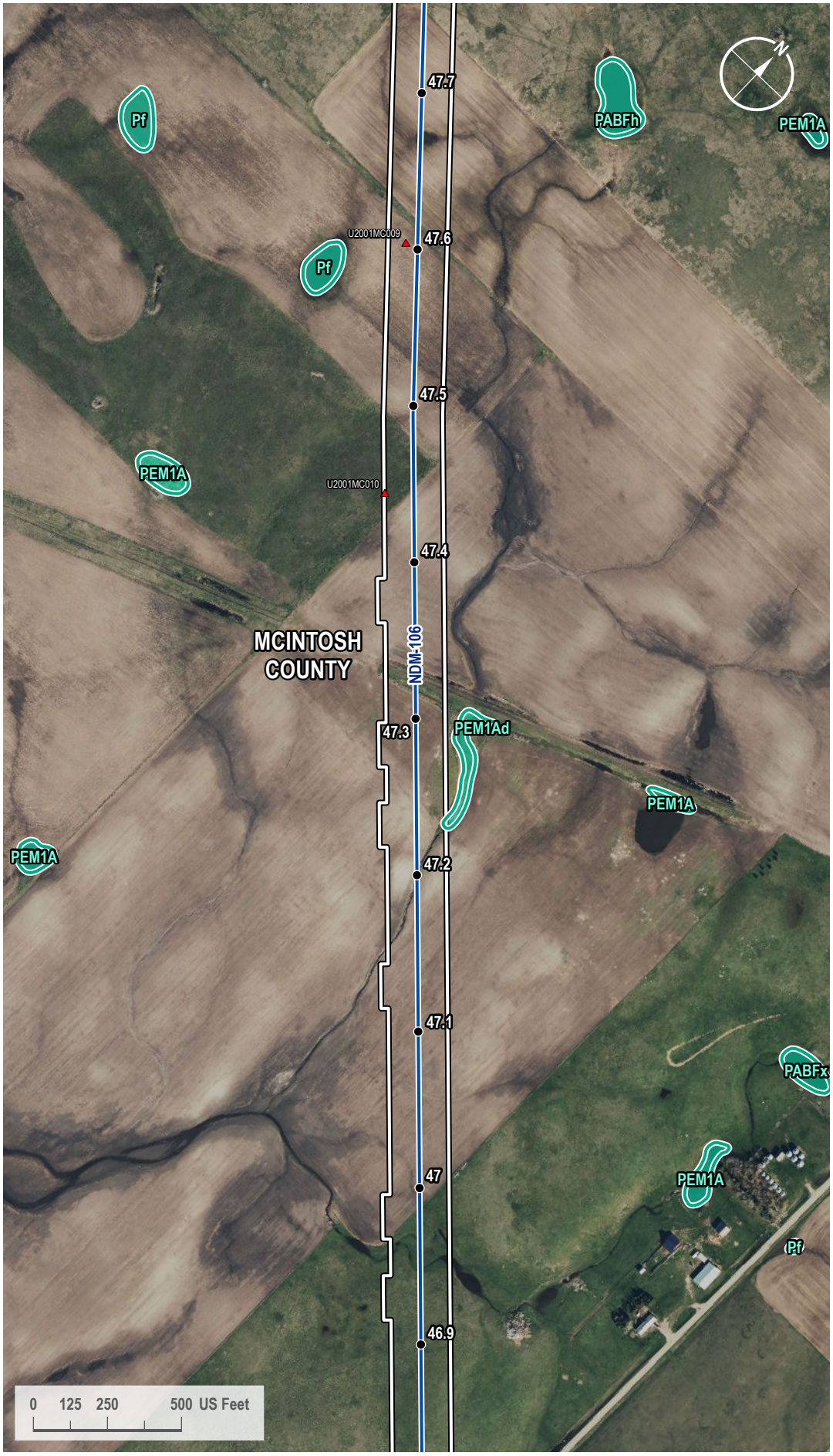

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
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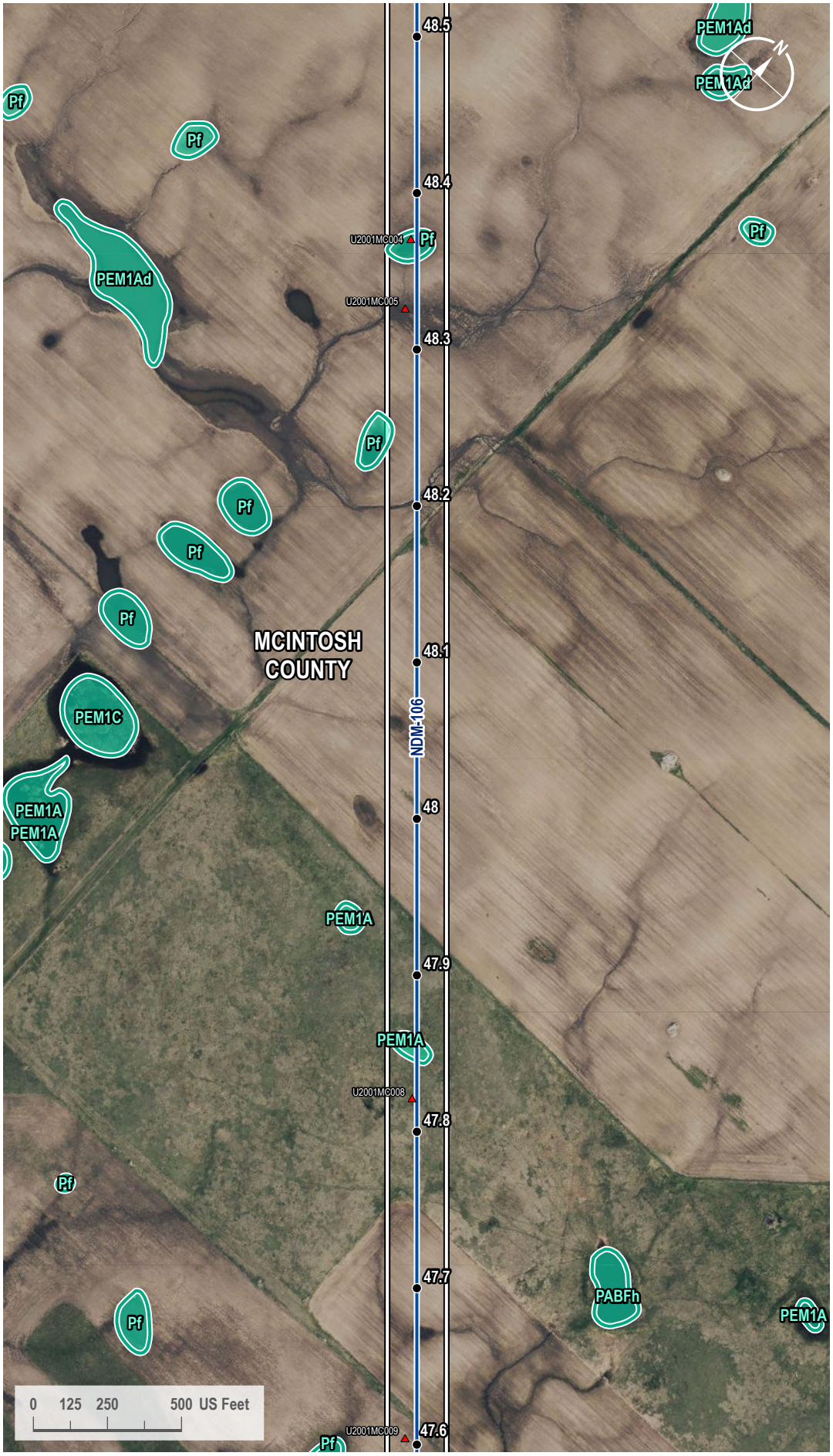

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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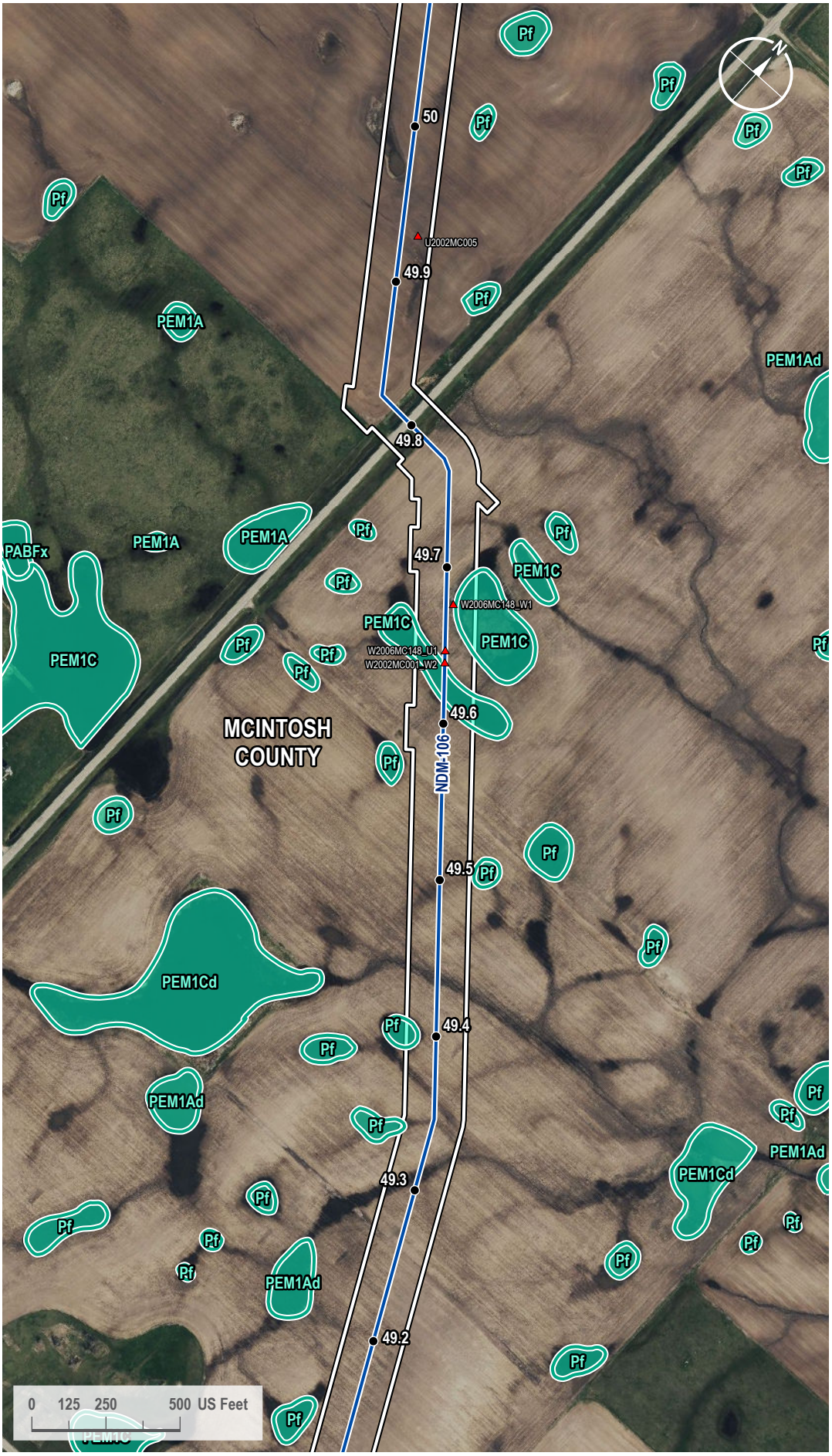

VICINITY MAP



LEGEND

- Milepost
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- 200-foot Siting Corridor
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
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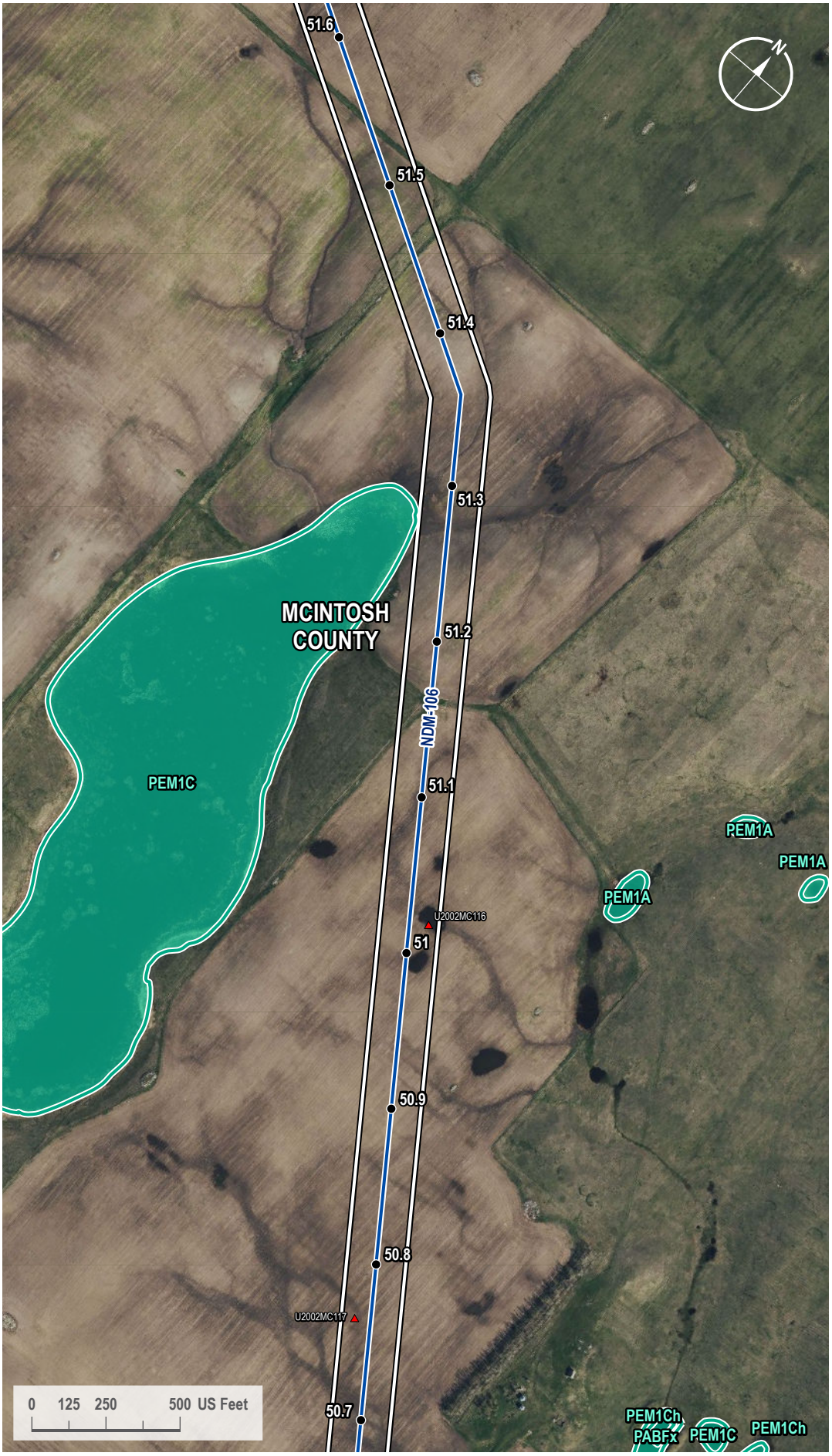

VICINITY MAP



LEGEND

- Milepost
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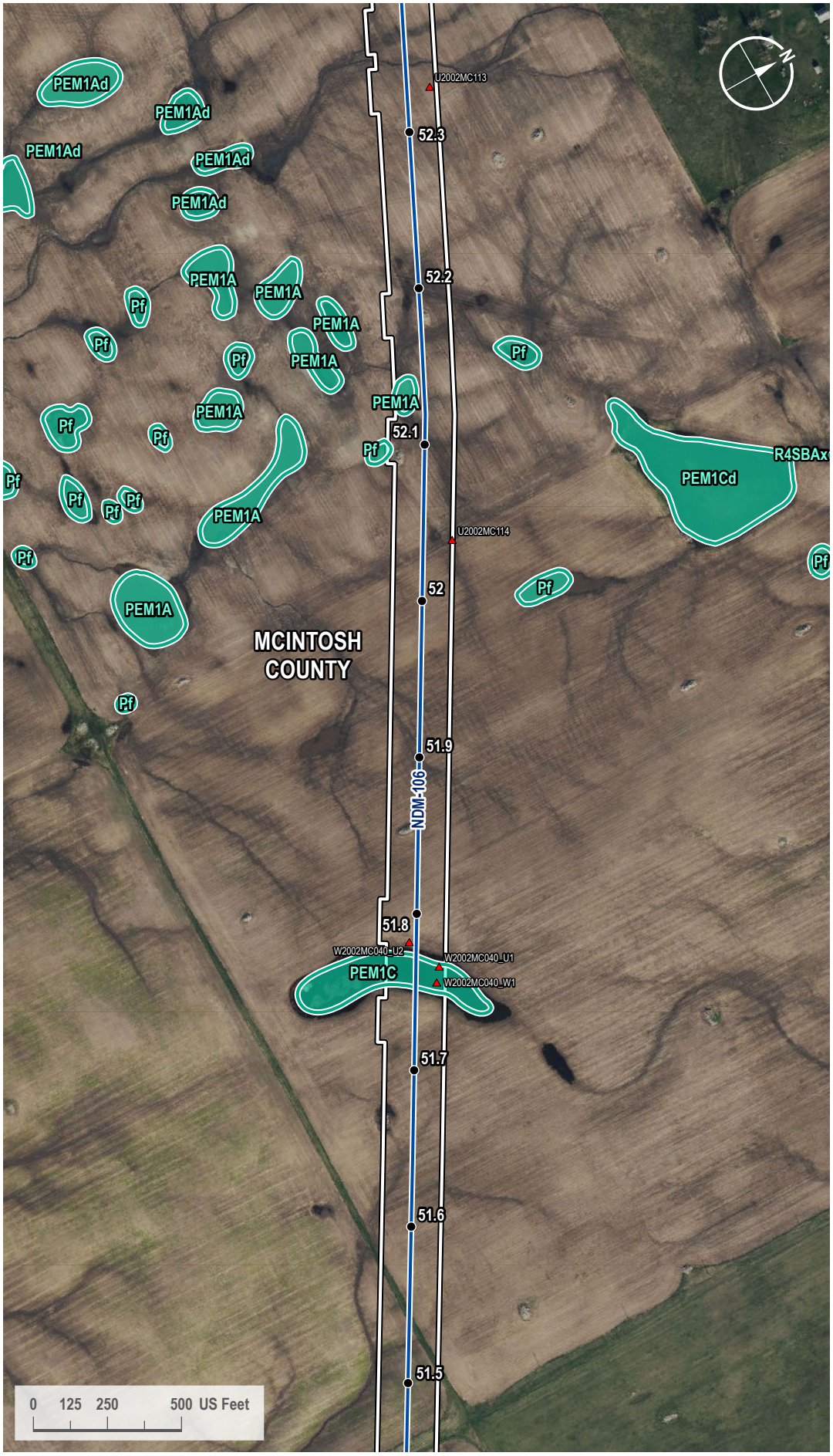

VICINITY MAP



LEGEND

- Milepost
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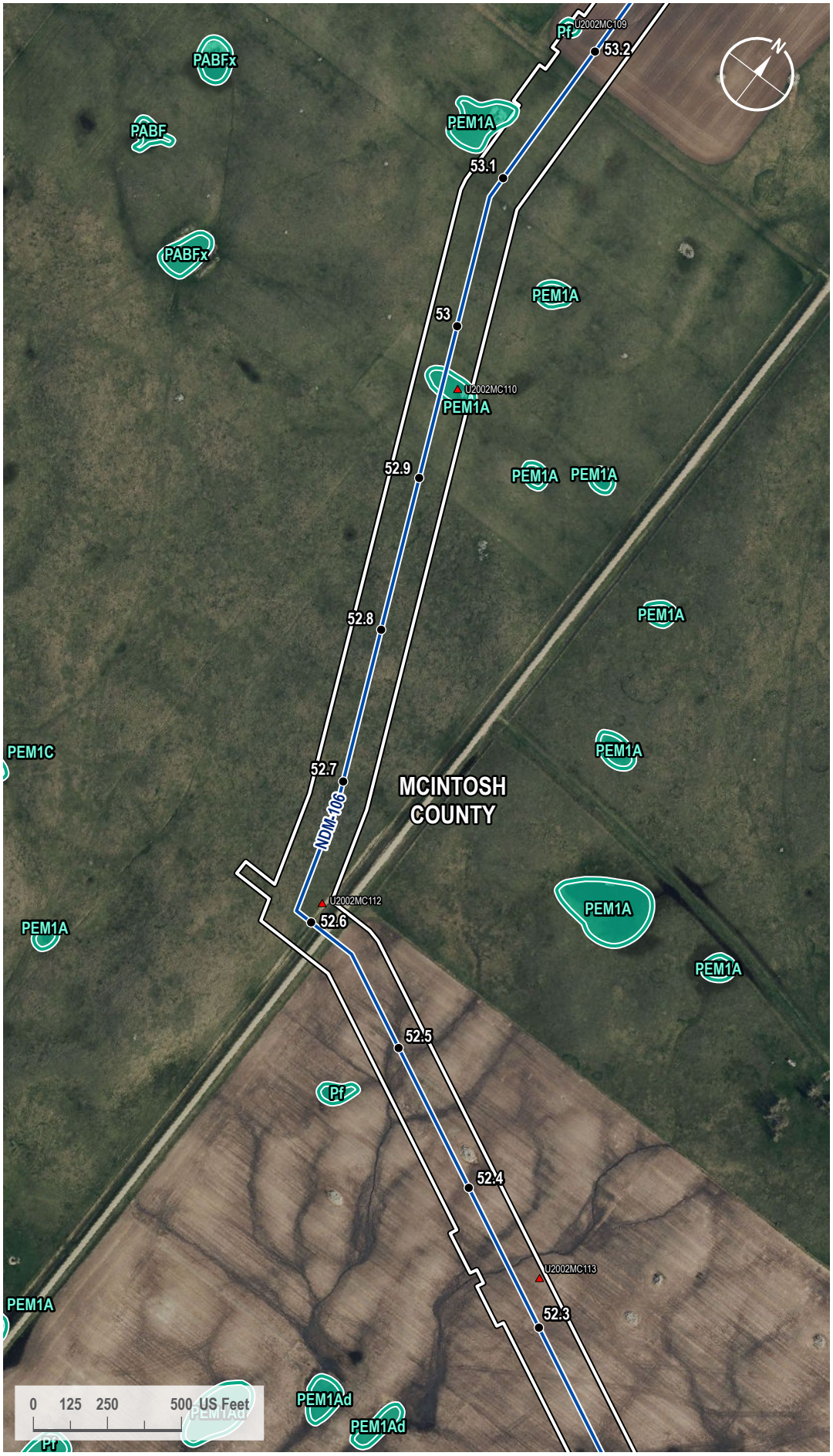

VICINITY MAP



LEGEND

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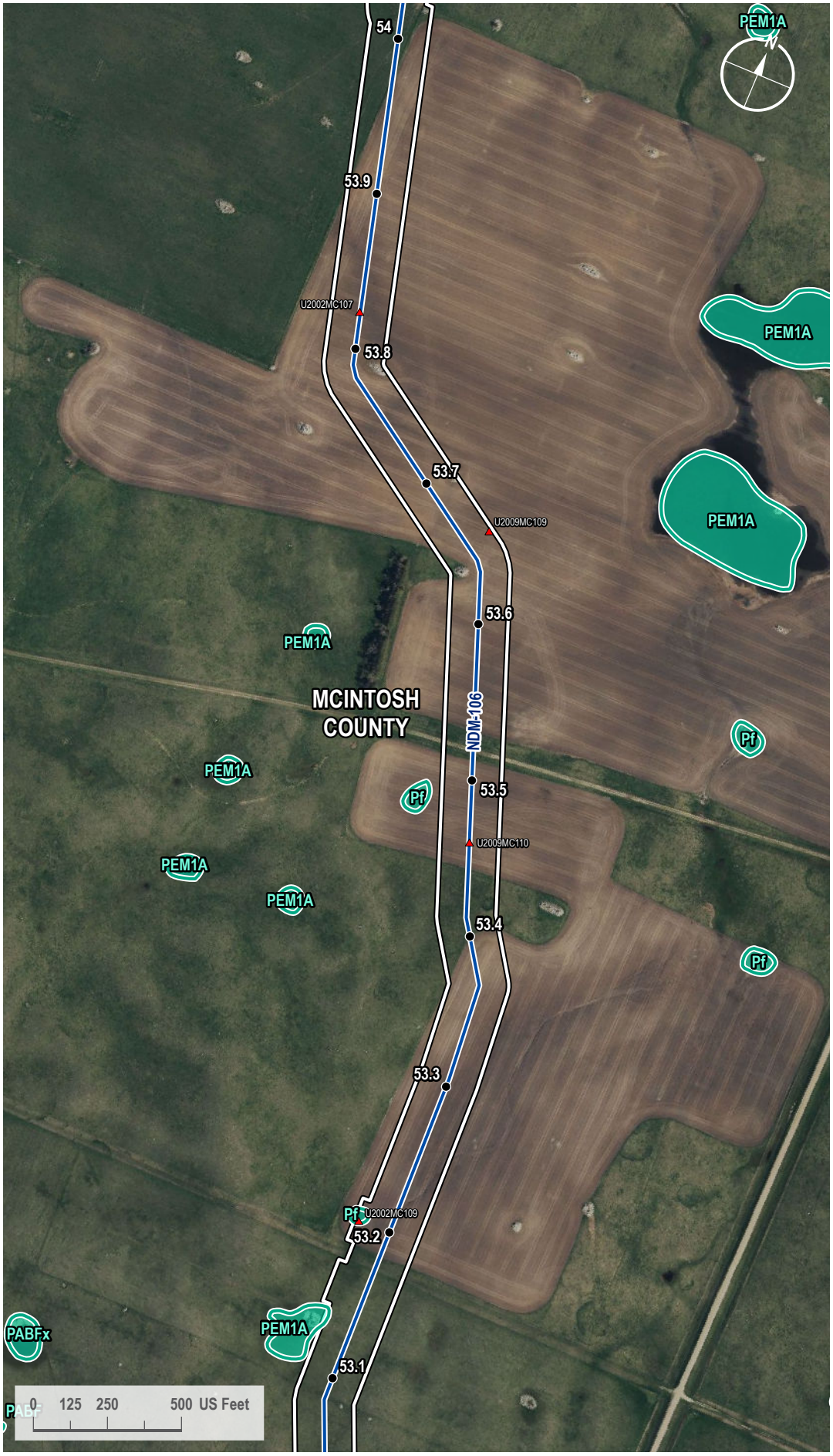

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LEGEND

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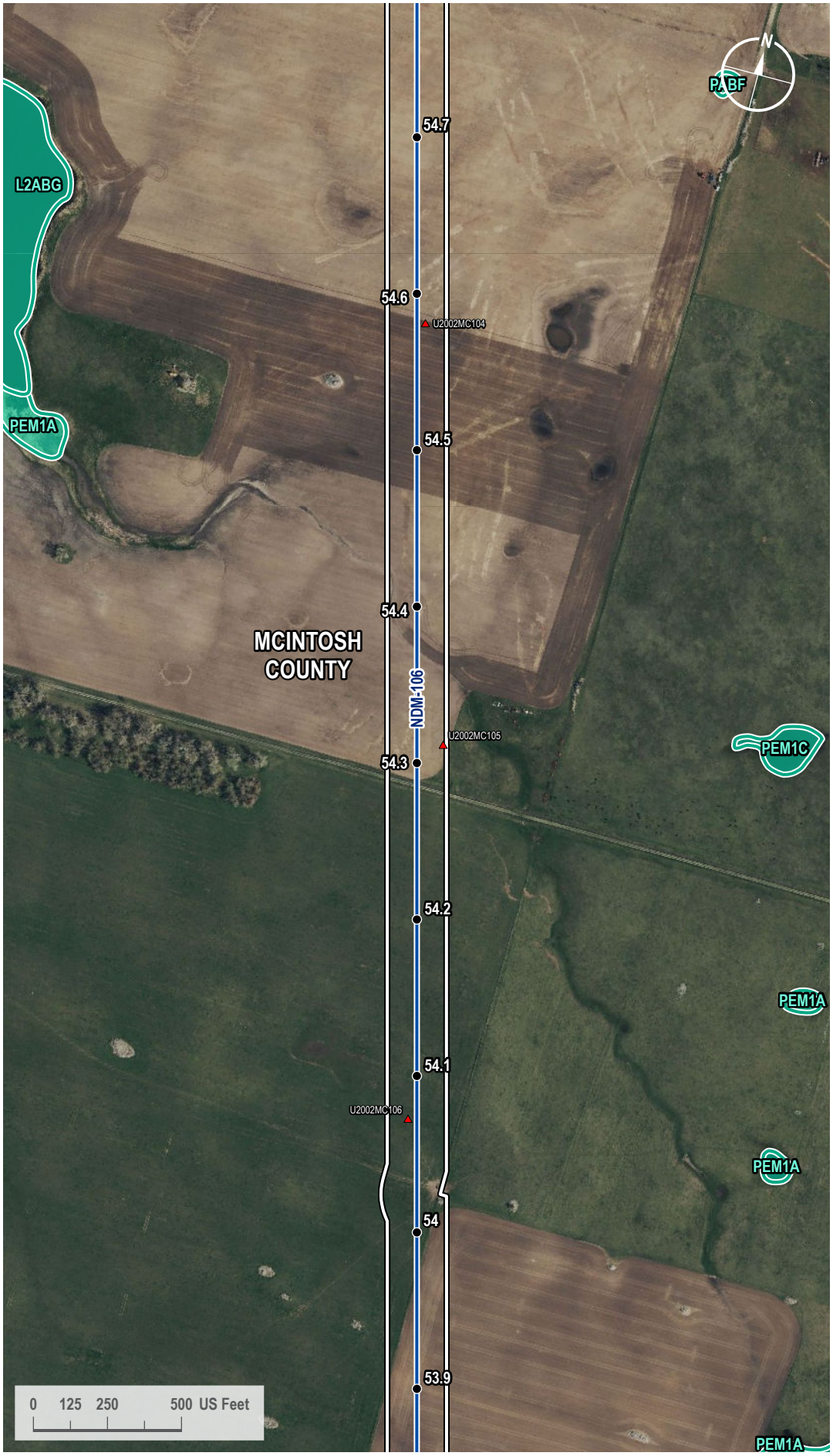

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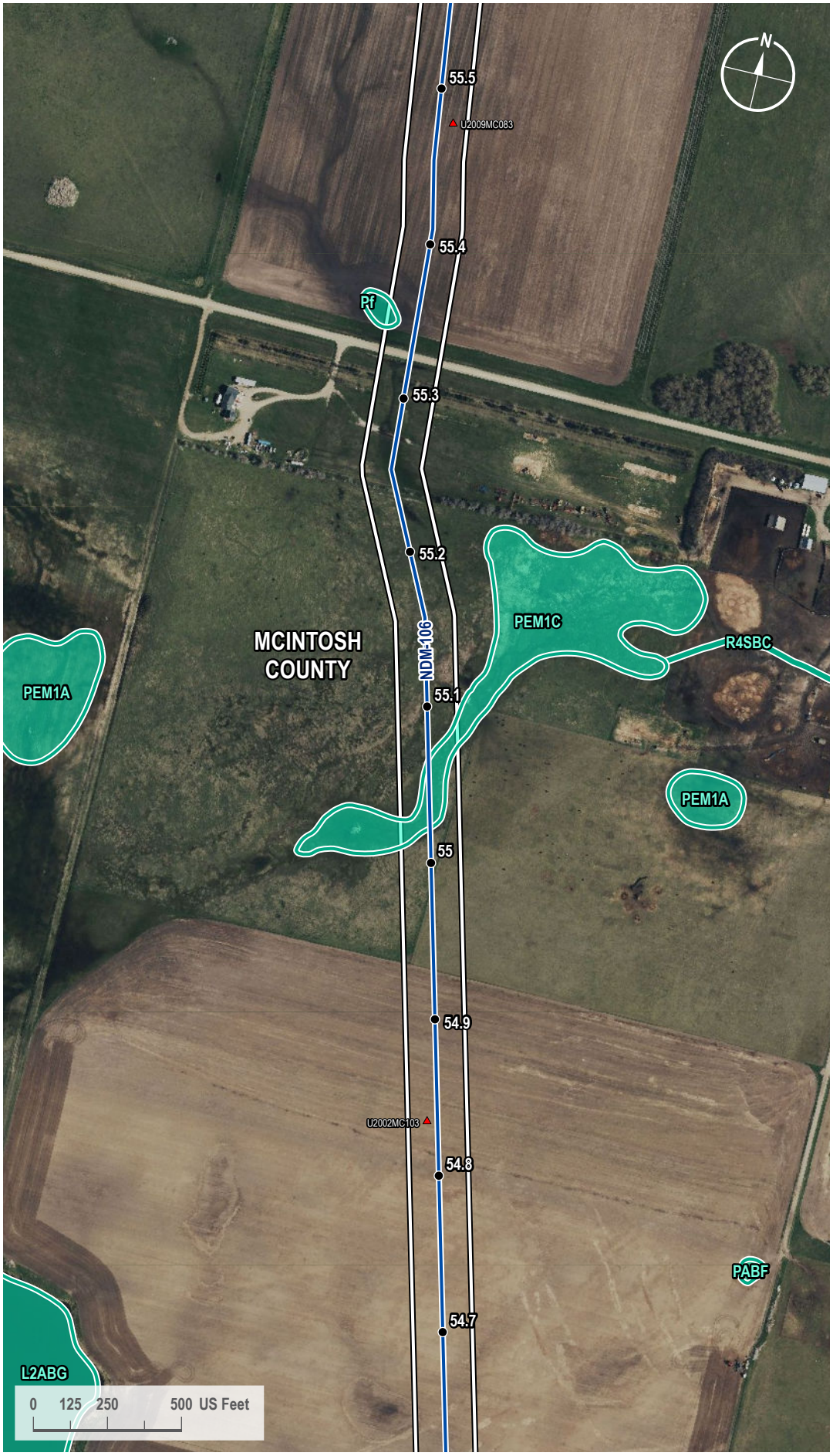

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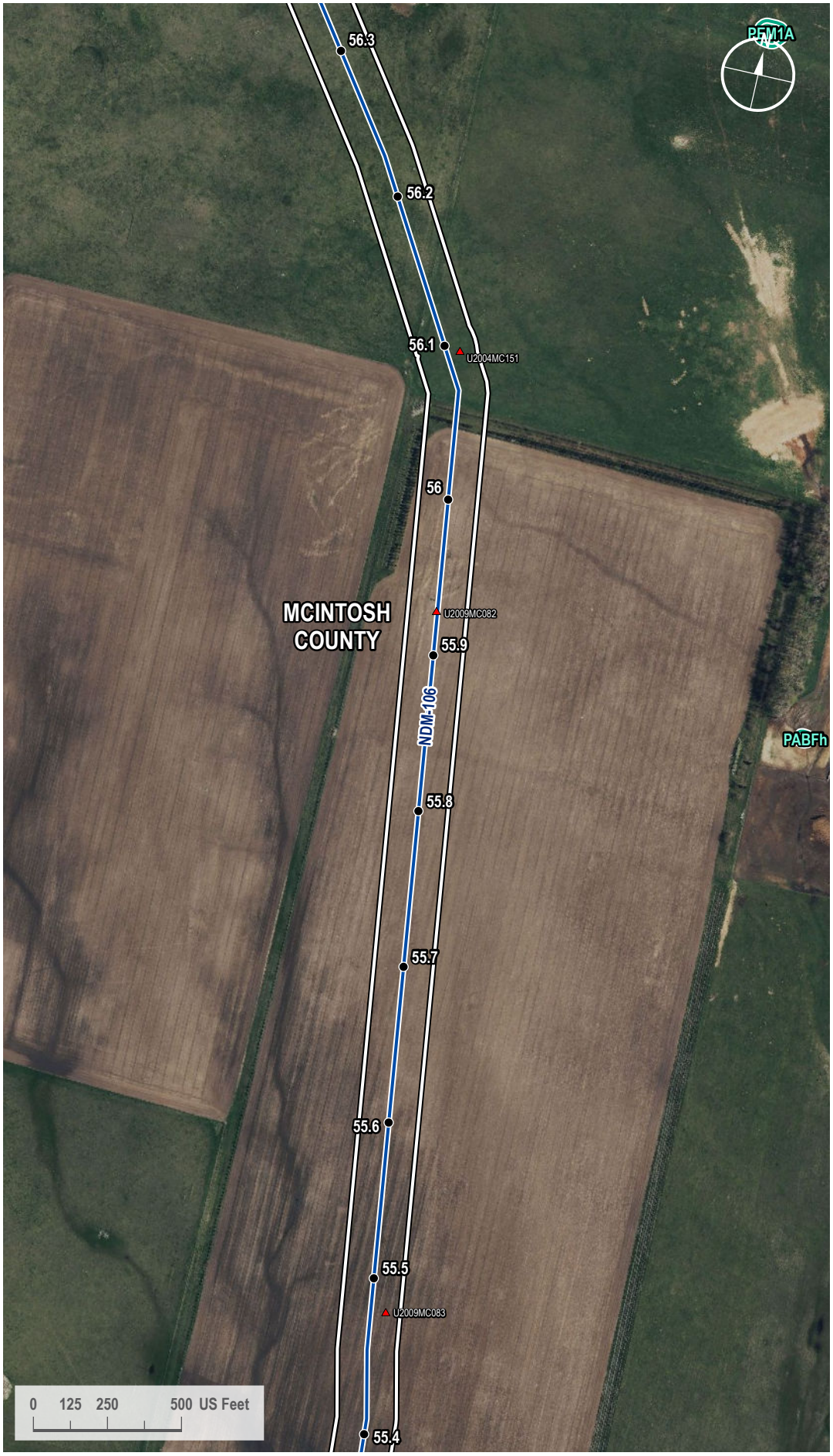

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Scale:	Projection:
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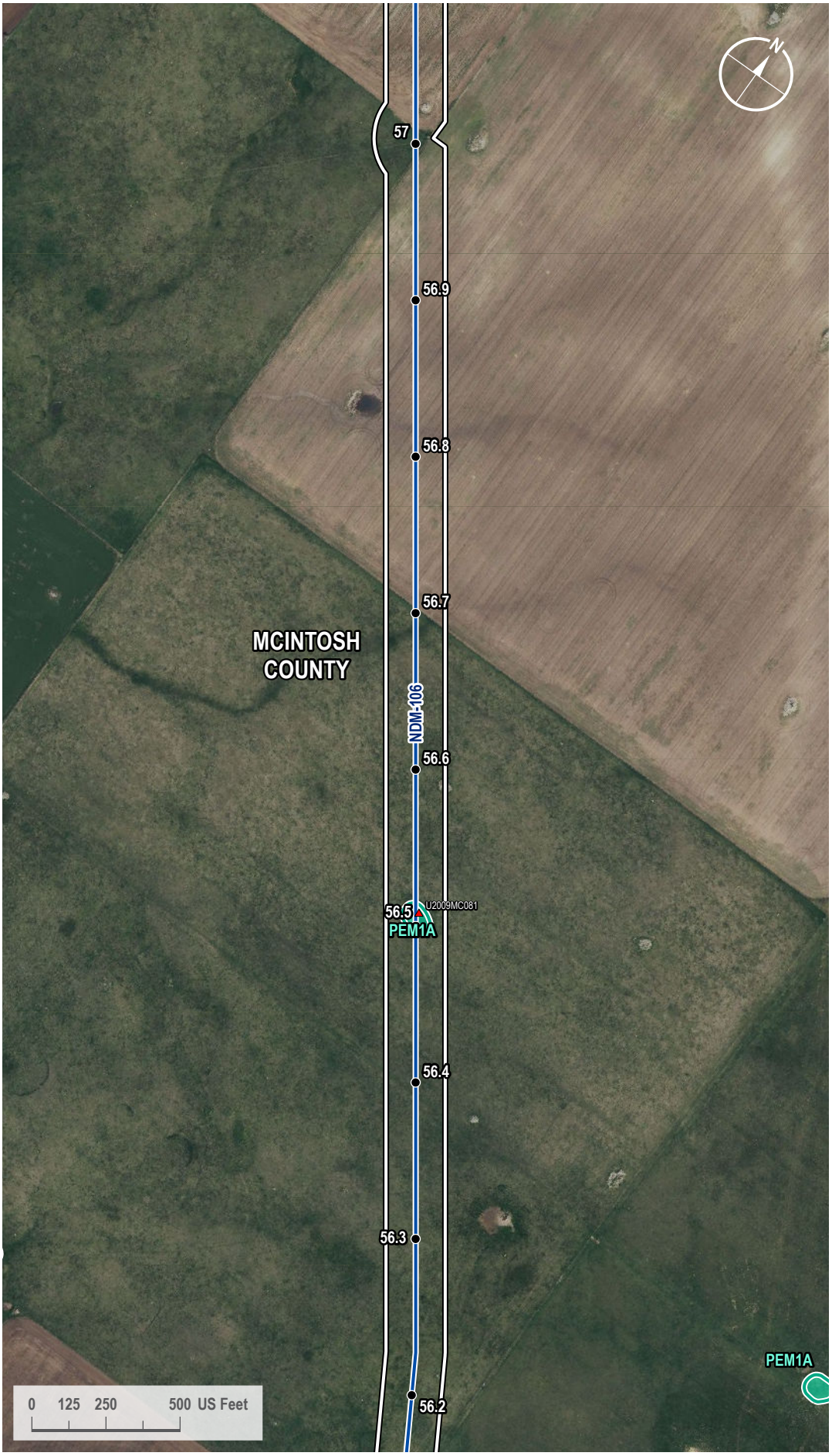

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NWI MAP



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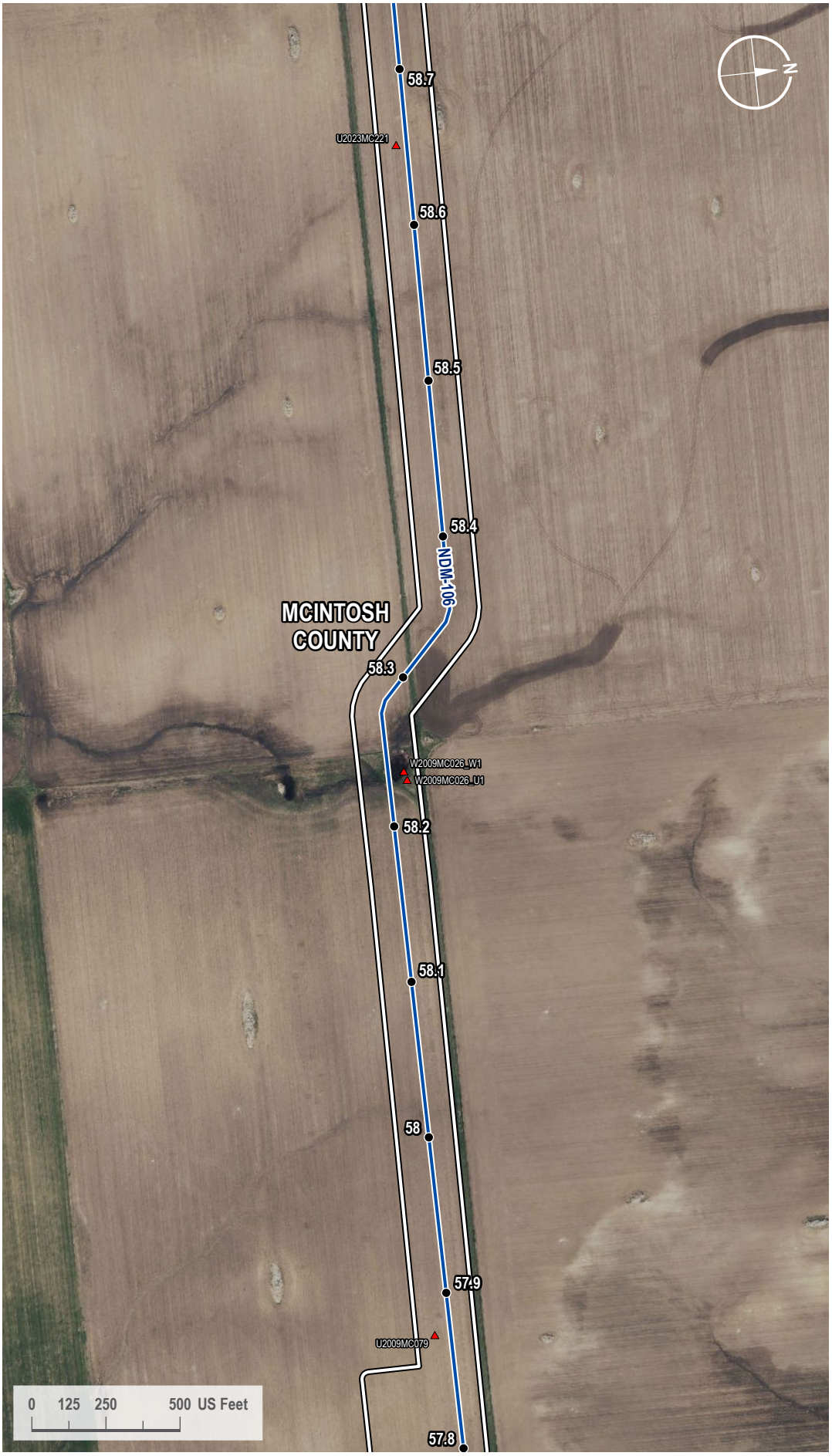

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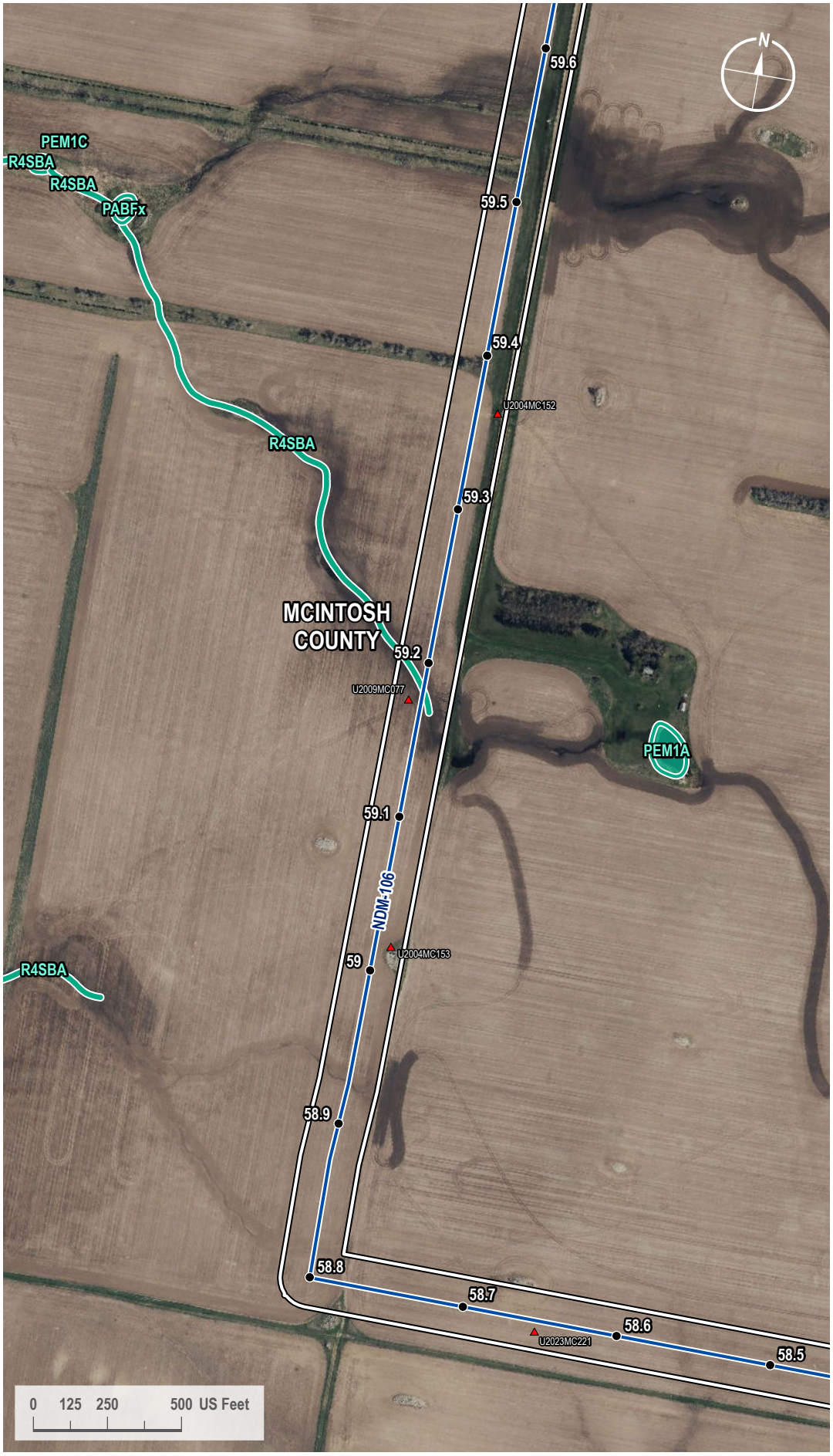

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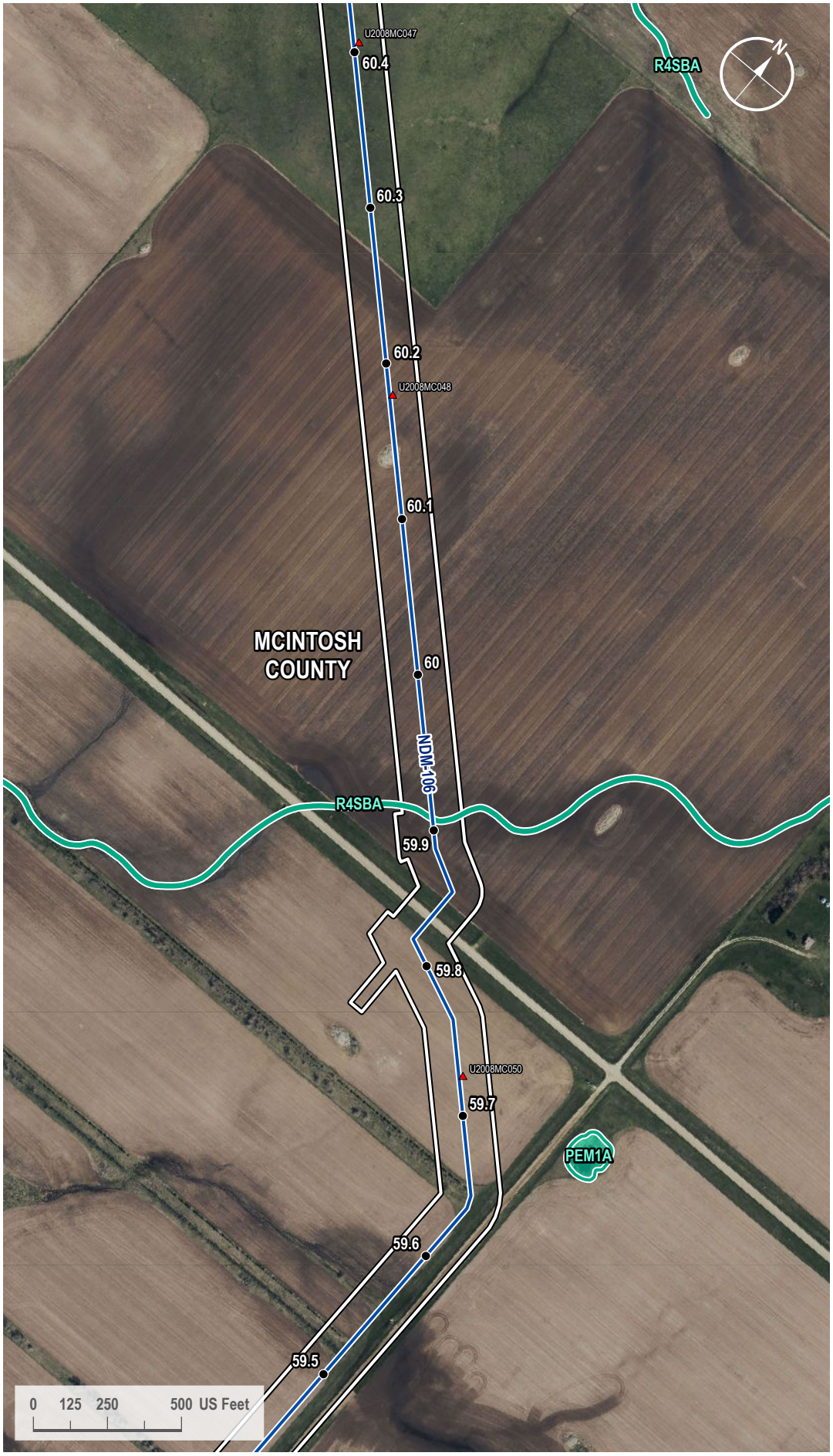

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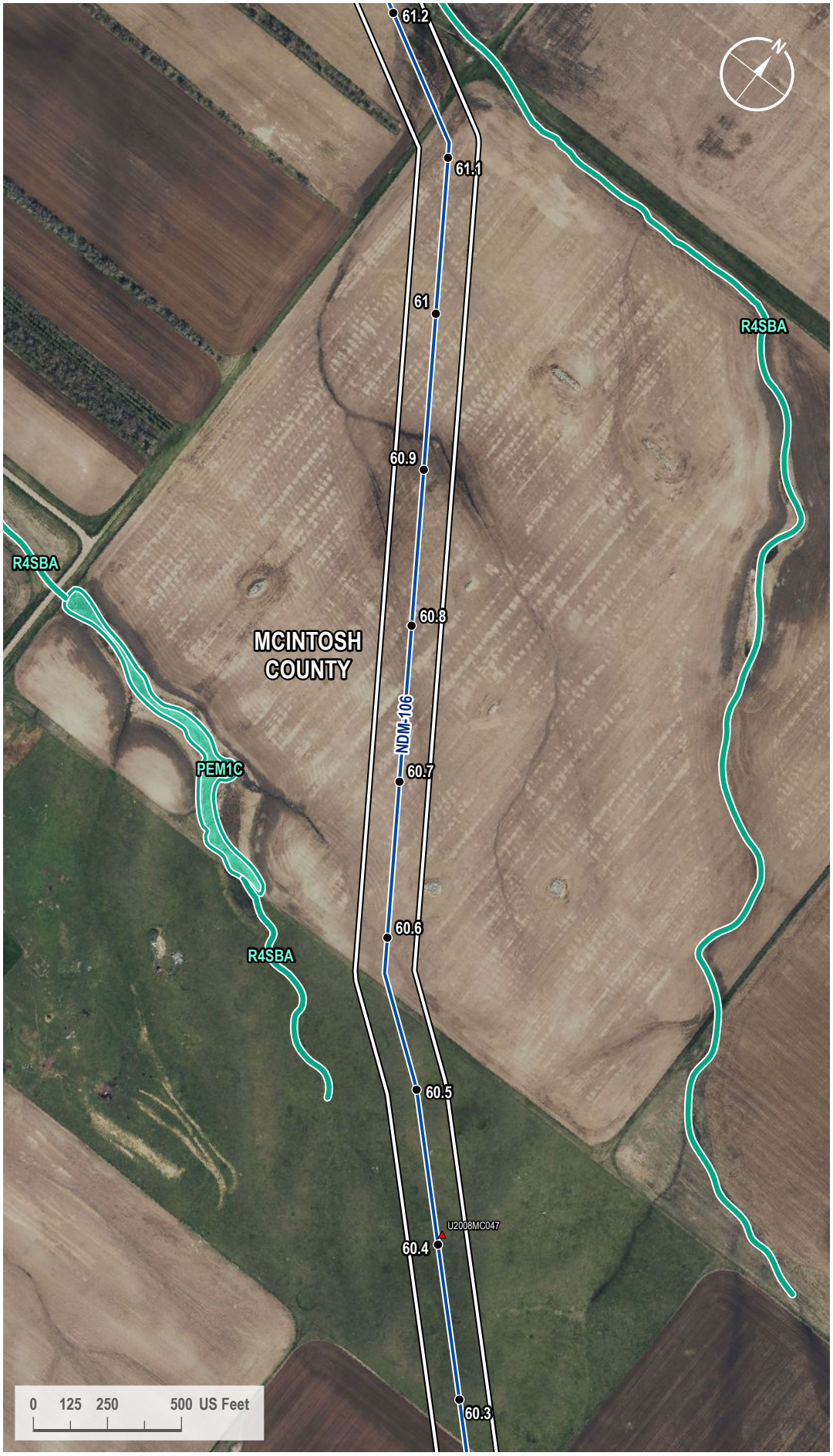

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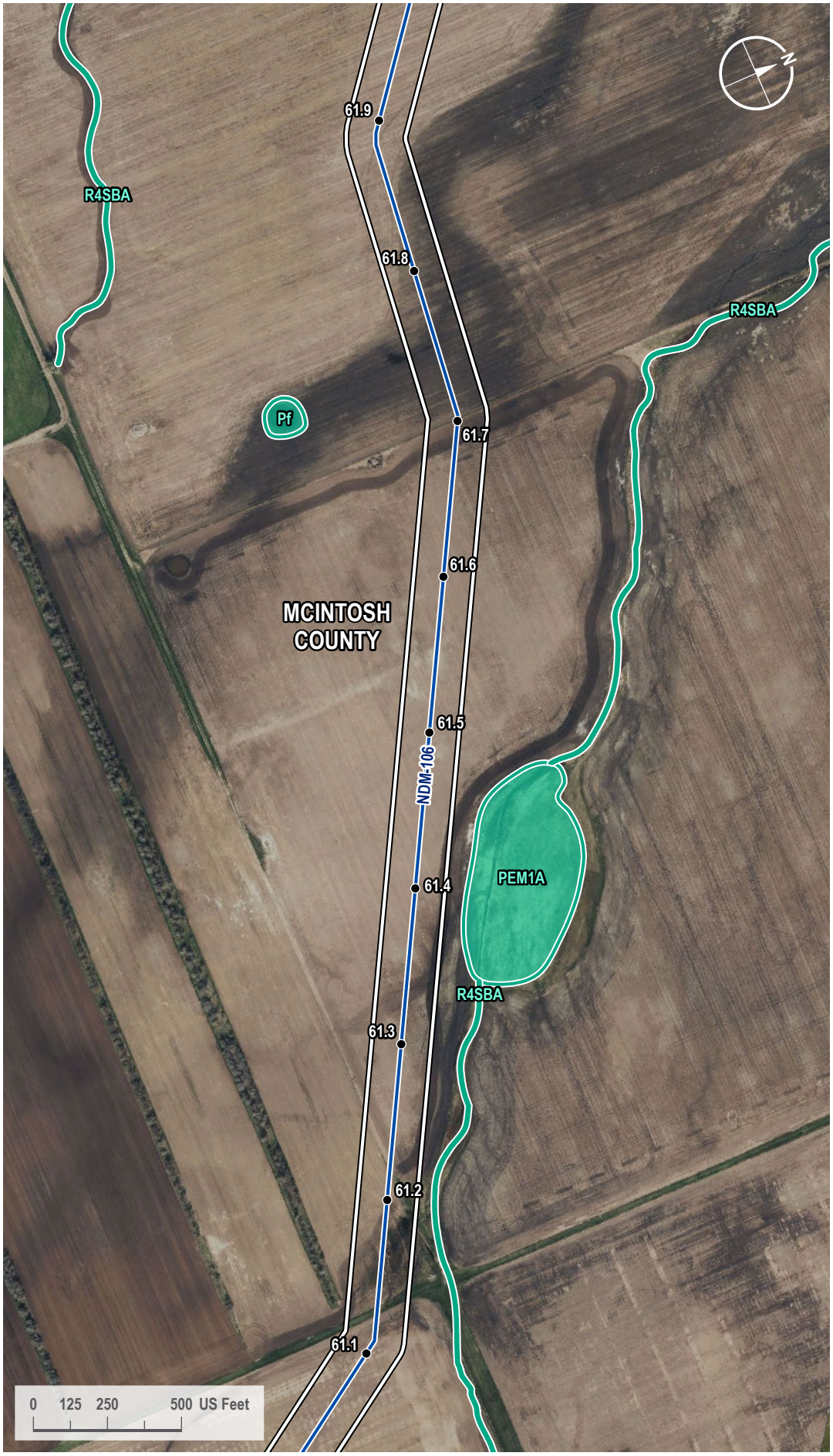

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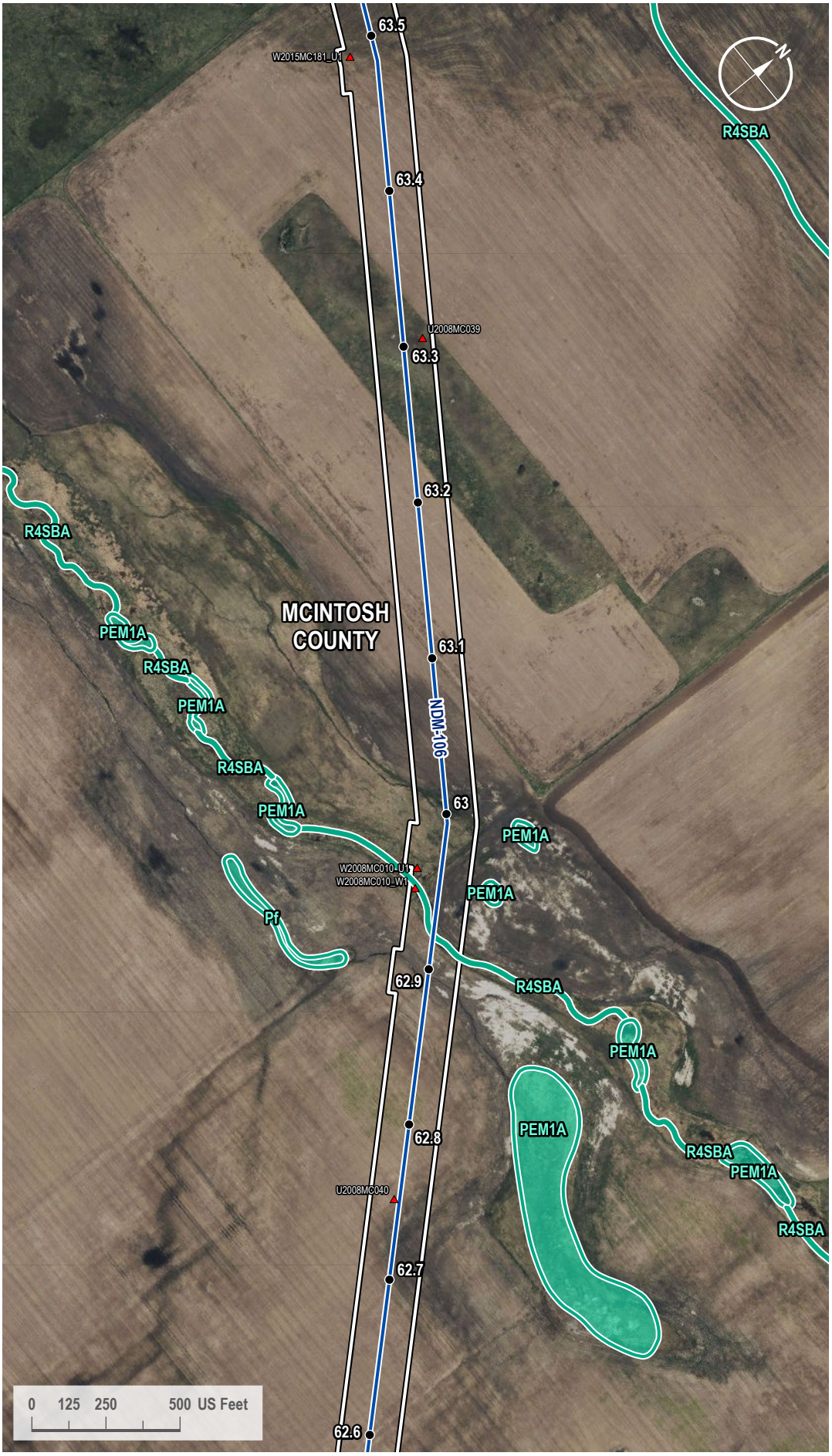

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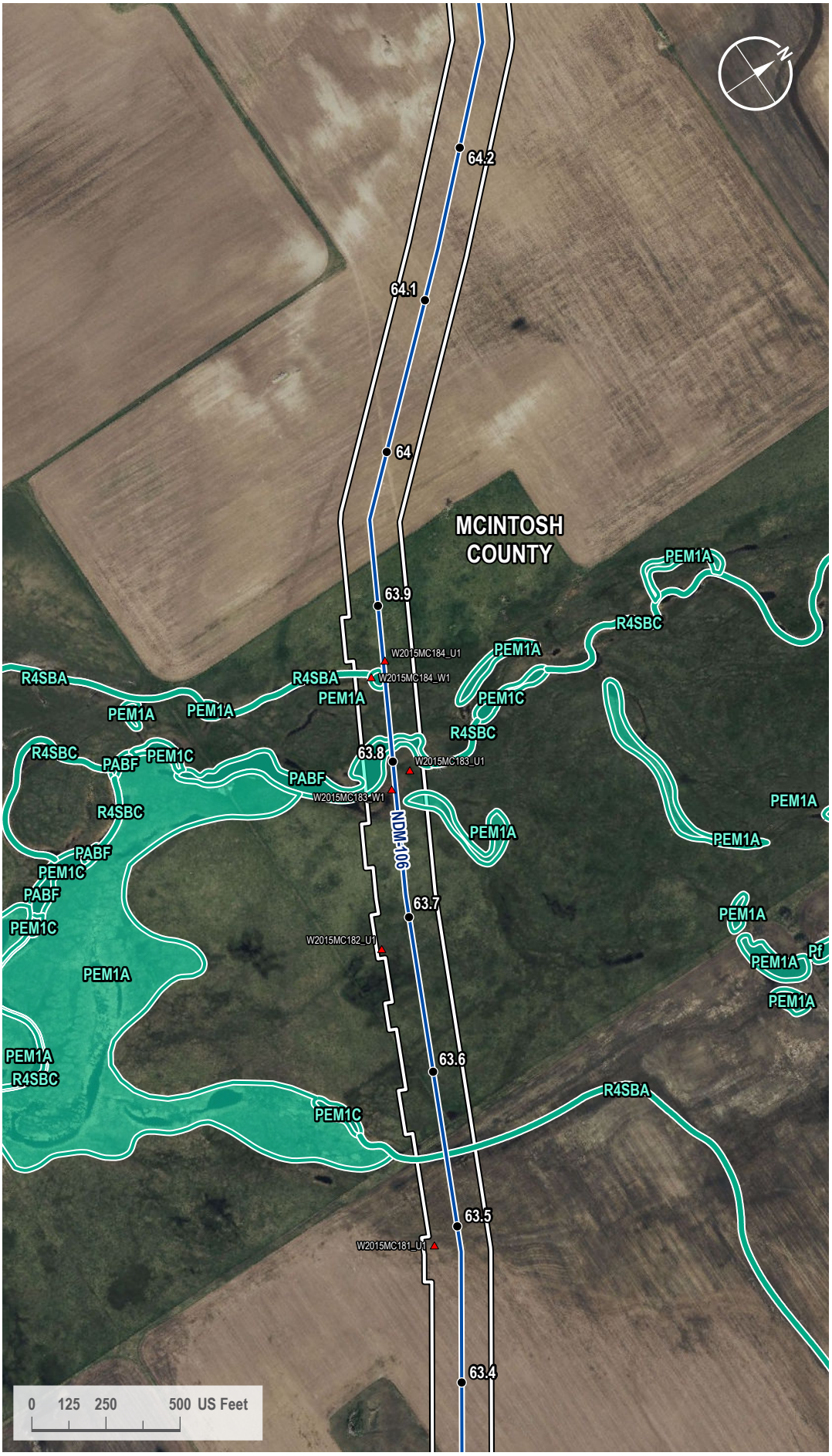

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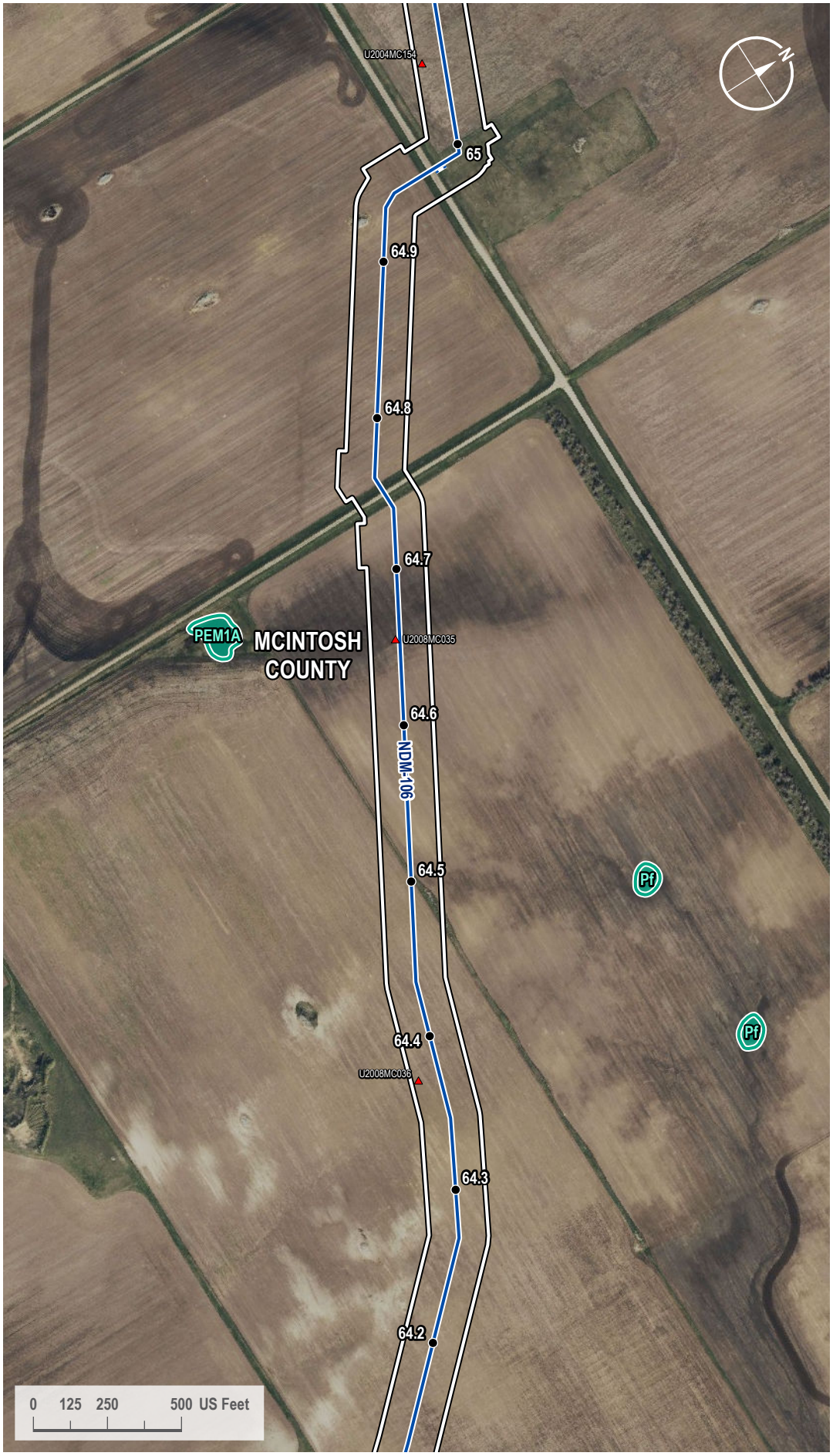

VICINITY MAP



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NWI MAP



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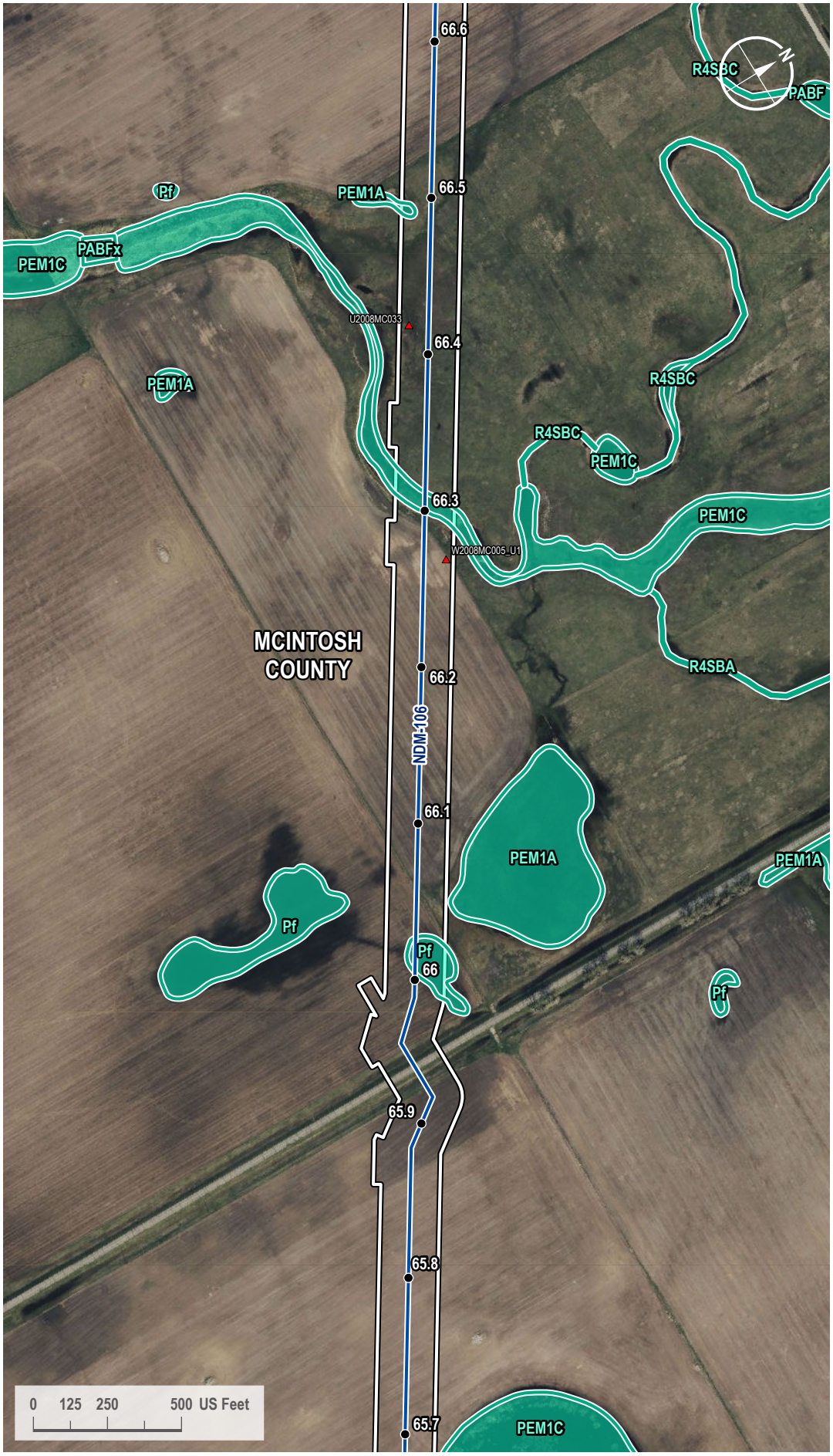

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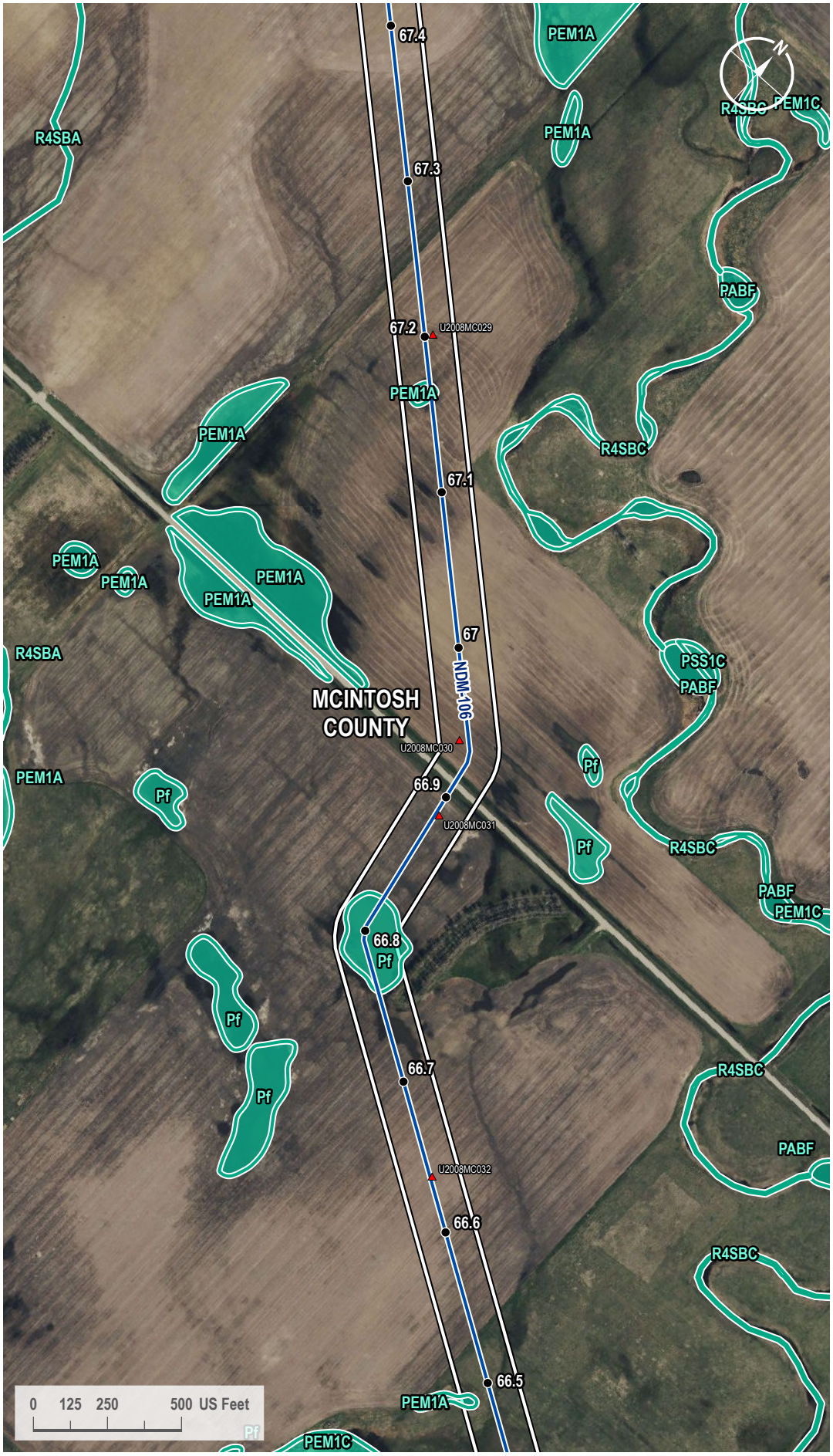

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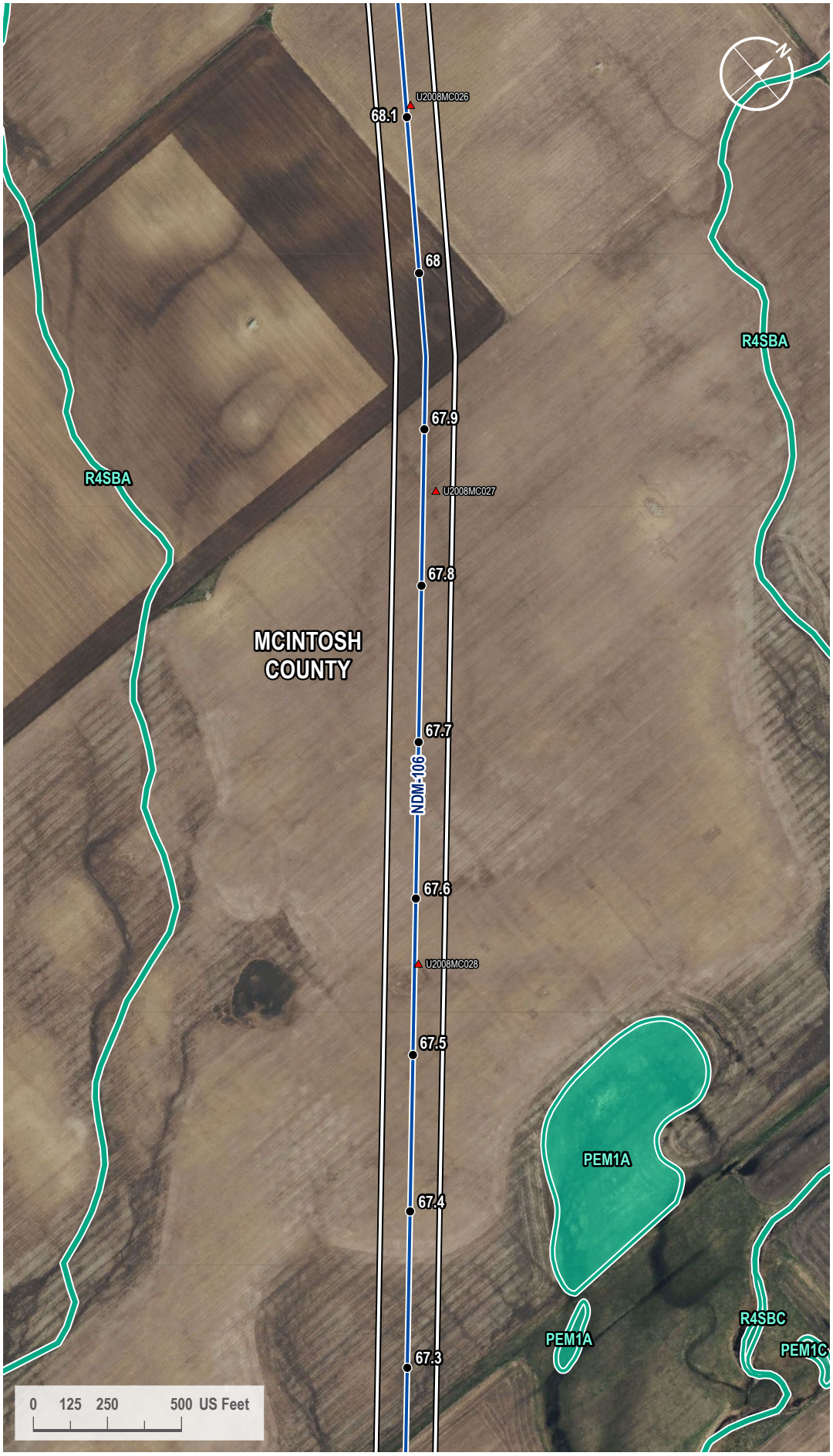

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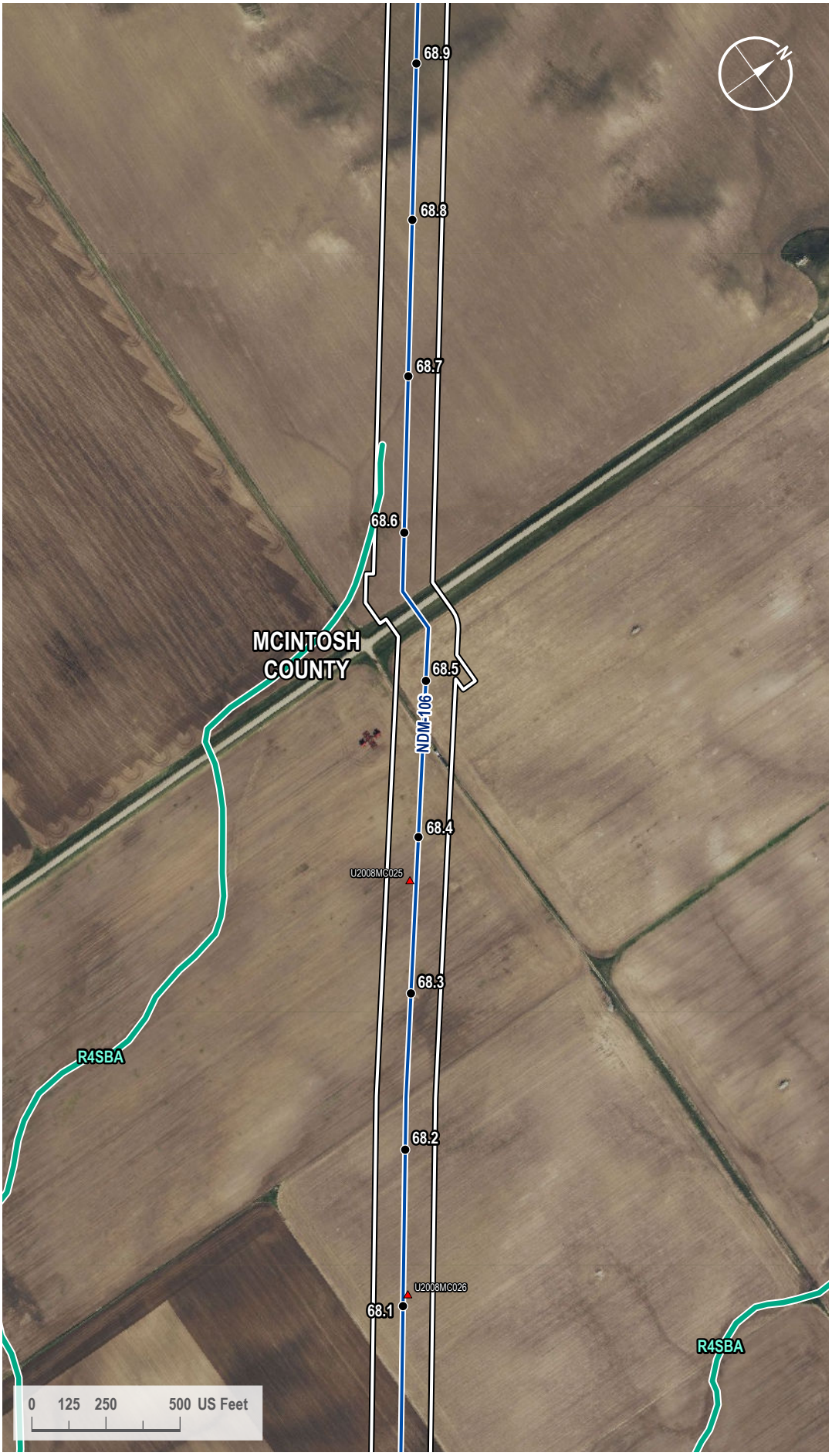

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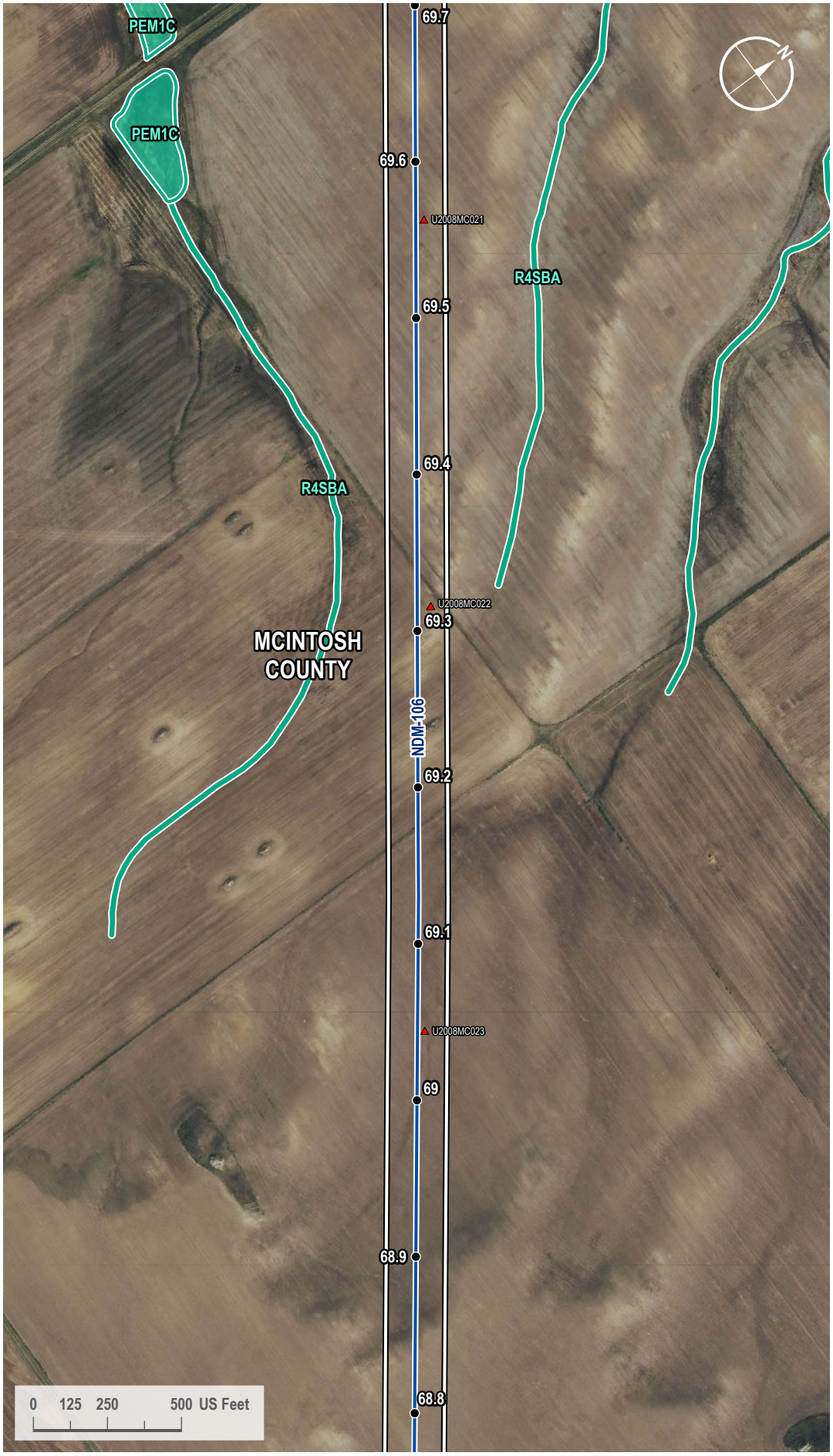

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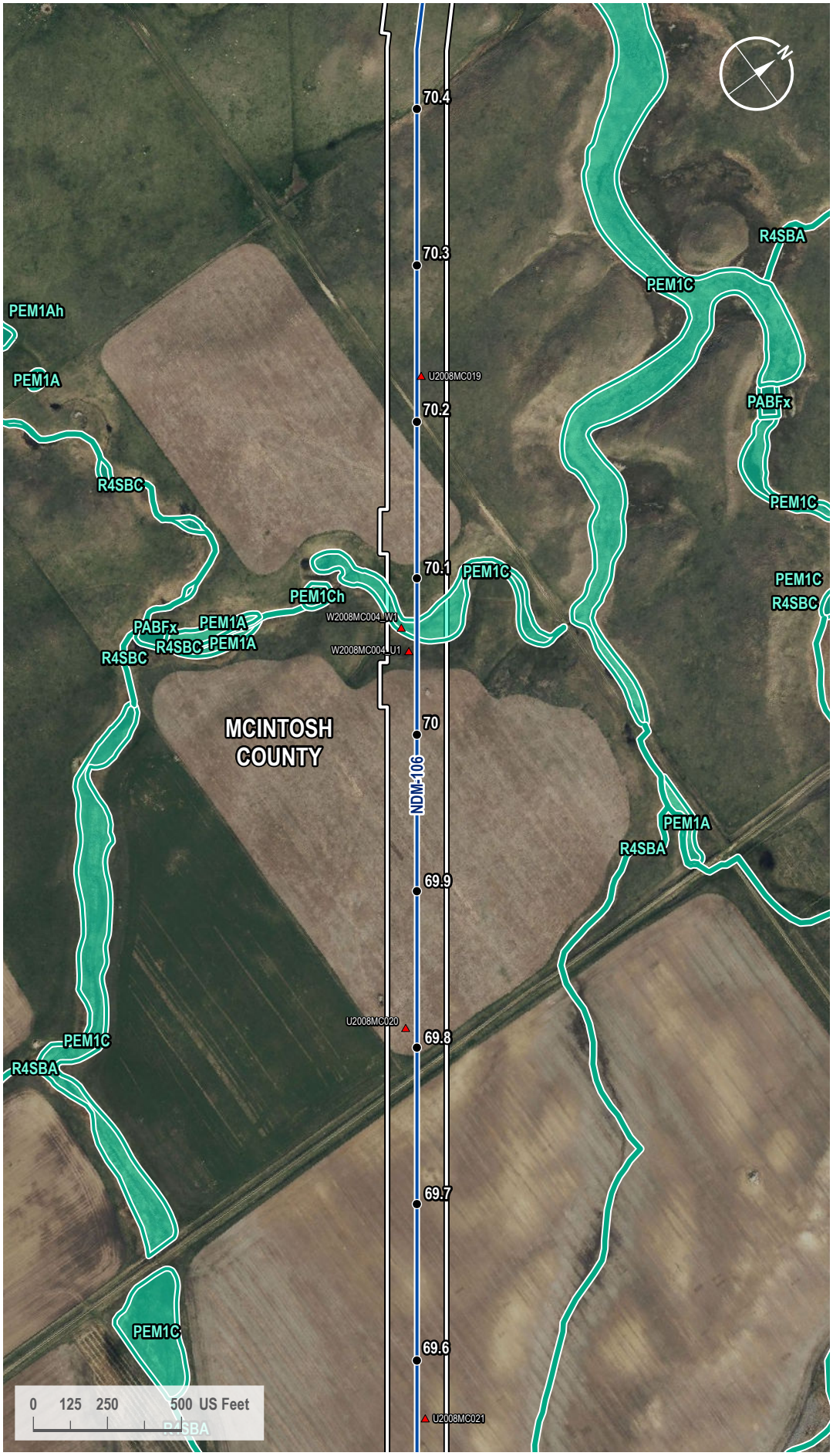

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Sheet:	**Drawing Number:**
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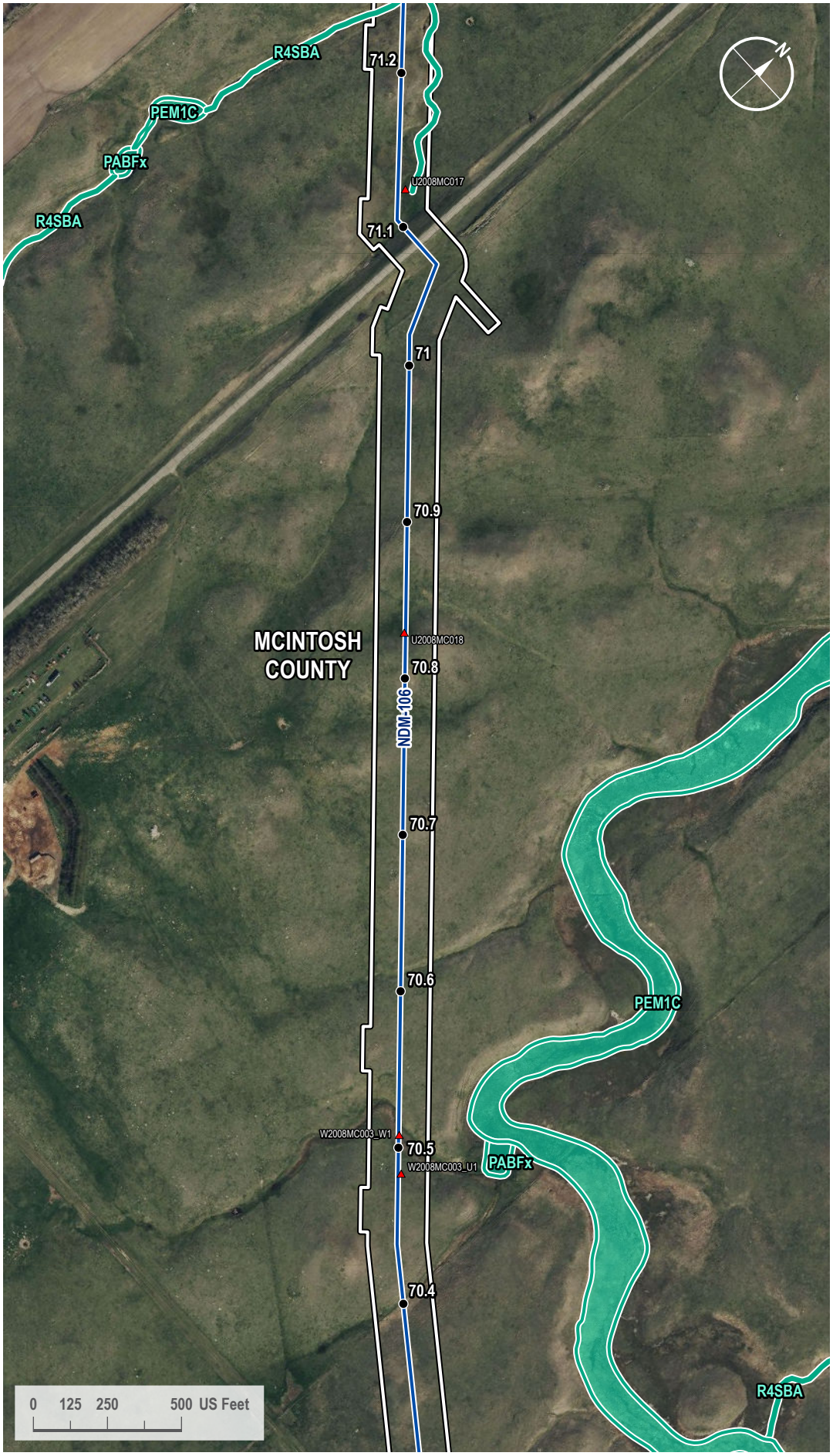
NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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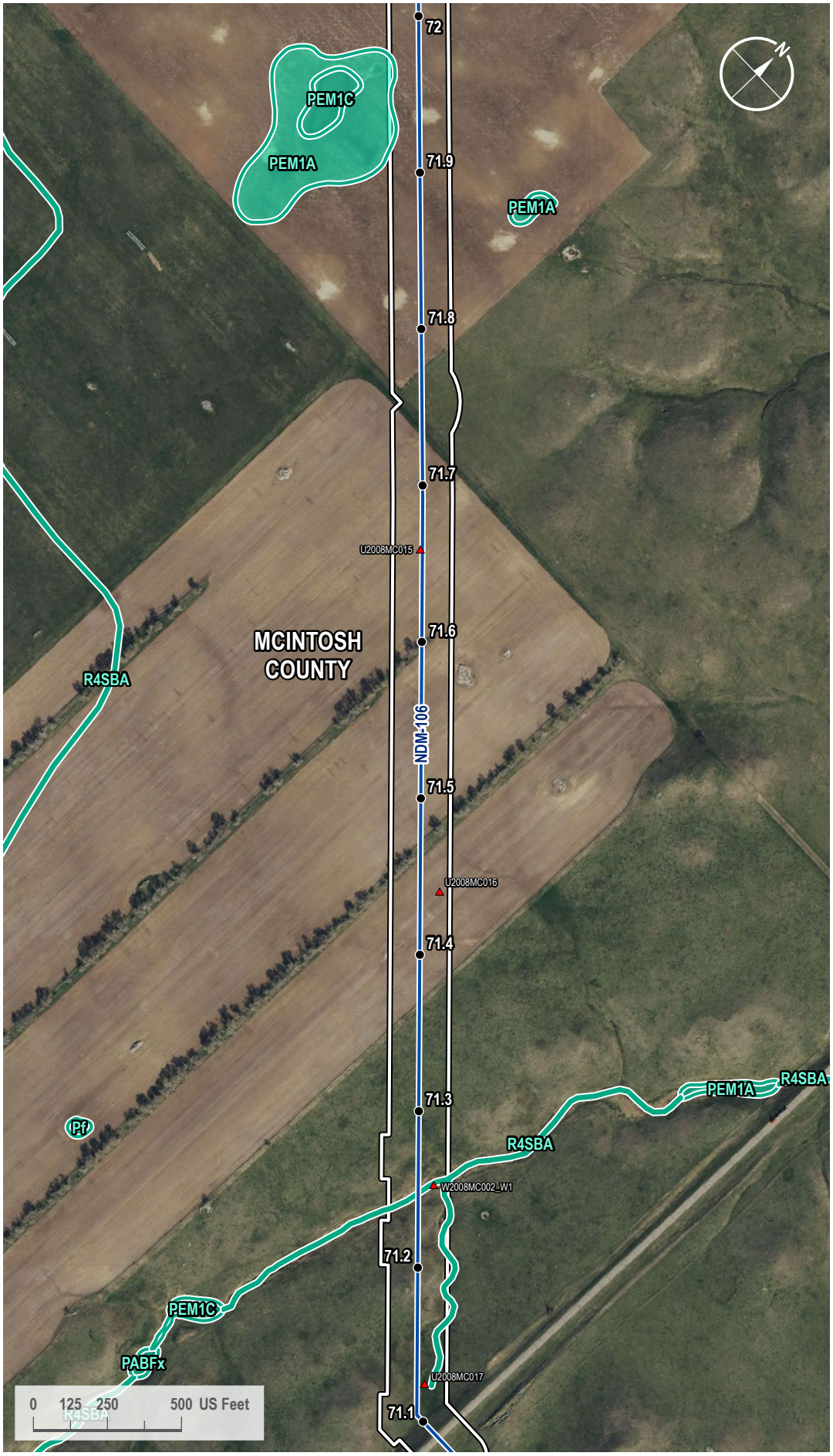

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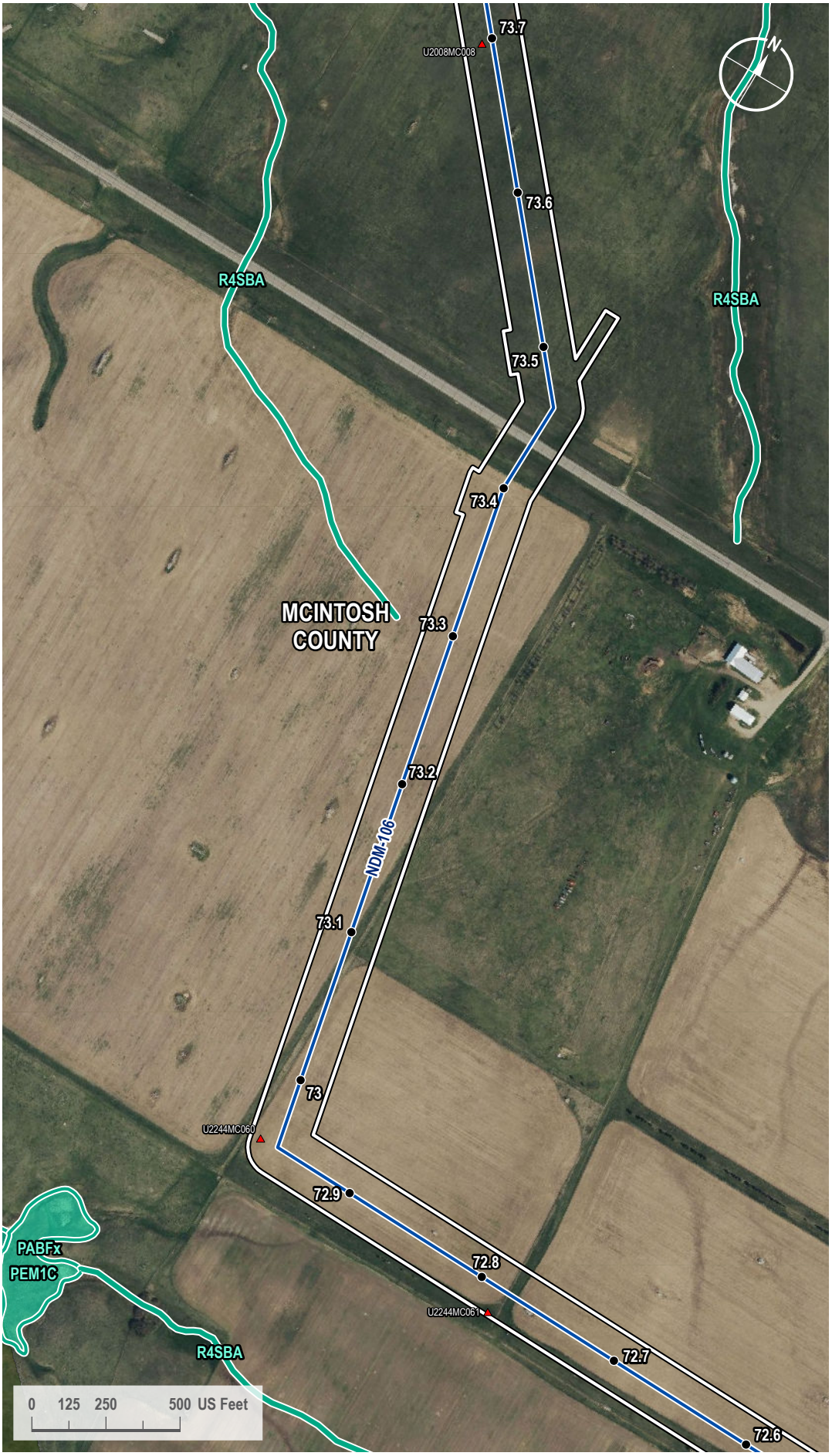

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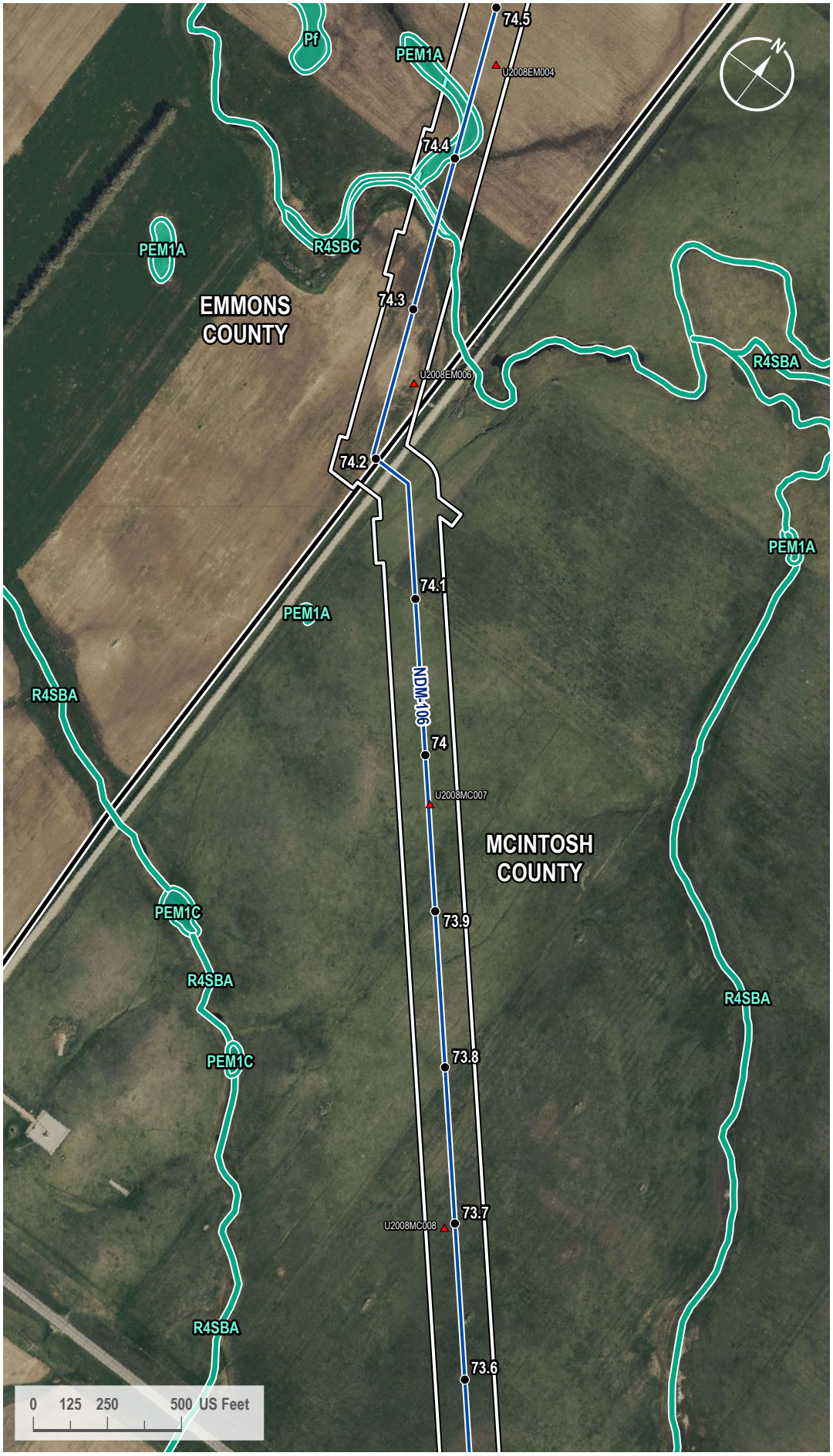

VICINITY MAP



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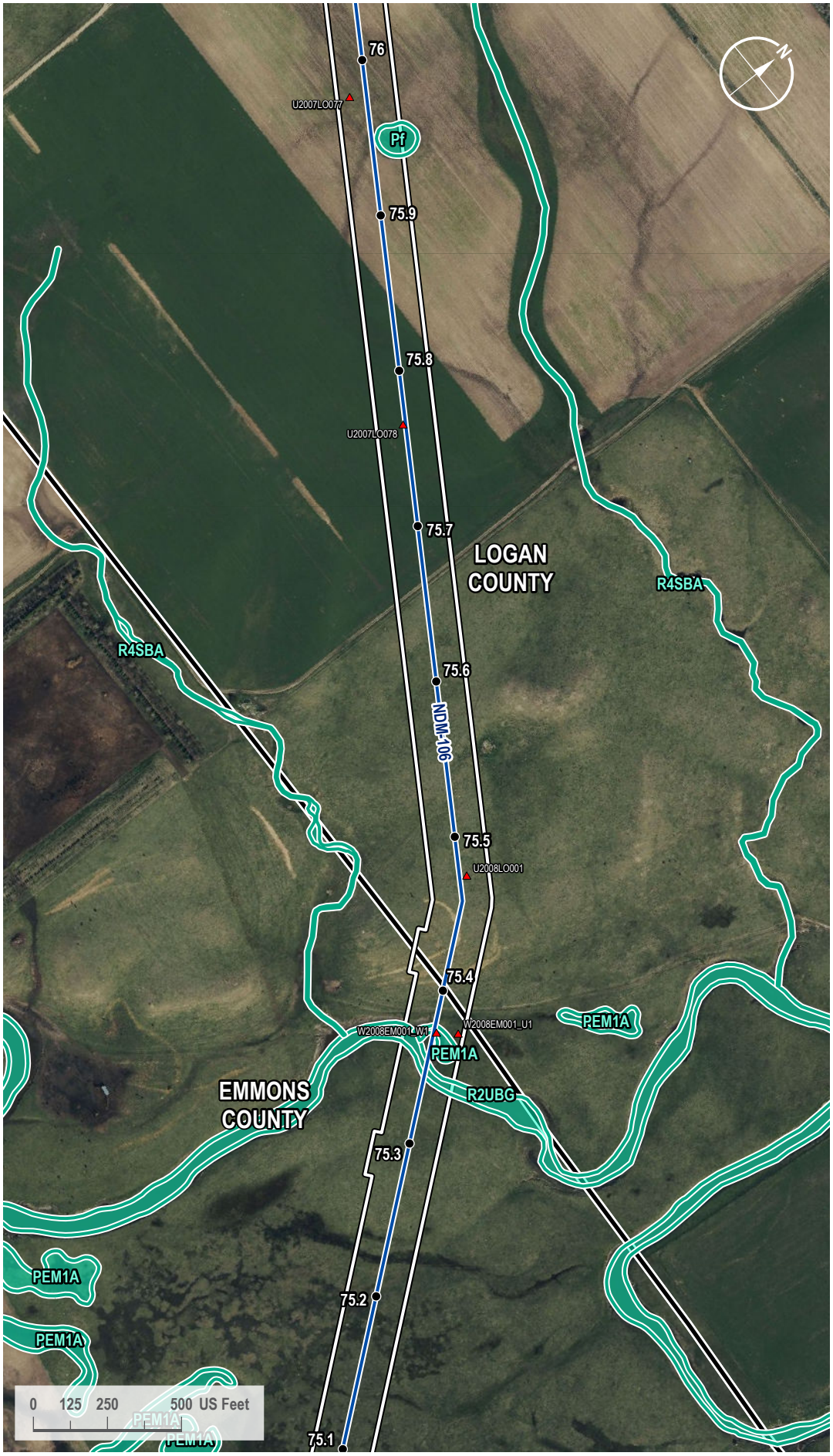

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NWI MAP



VICINITY MAP



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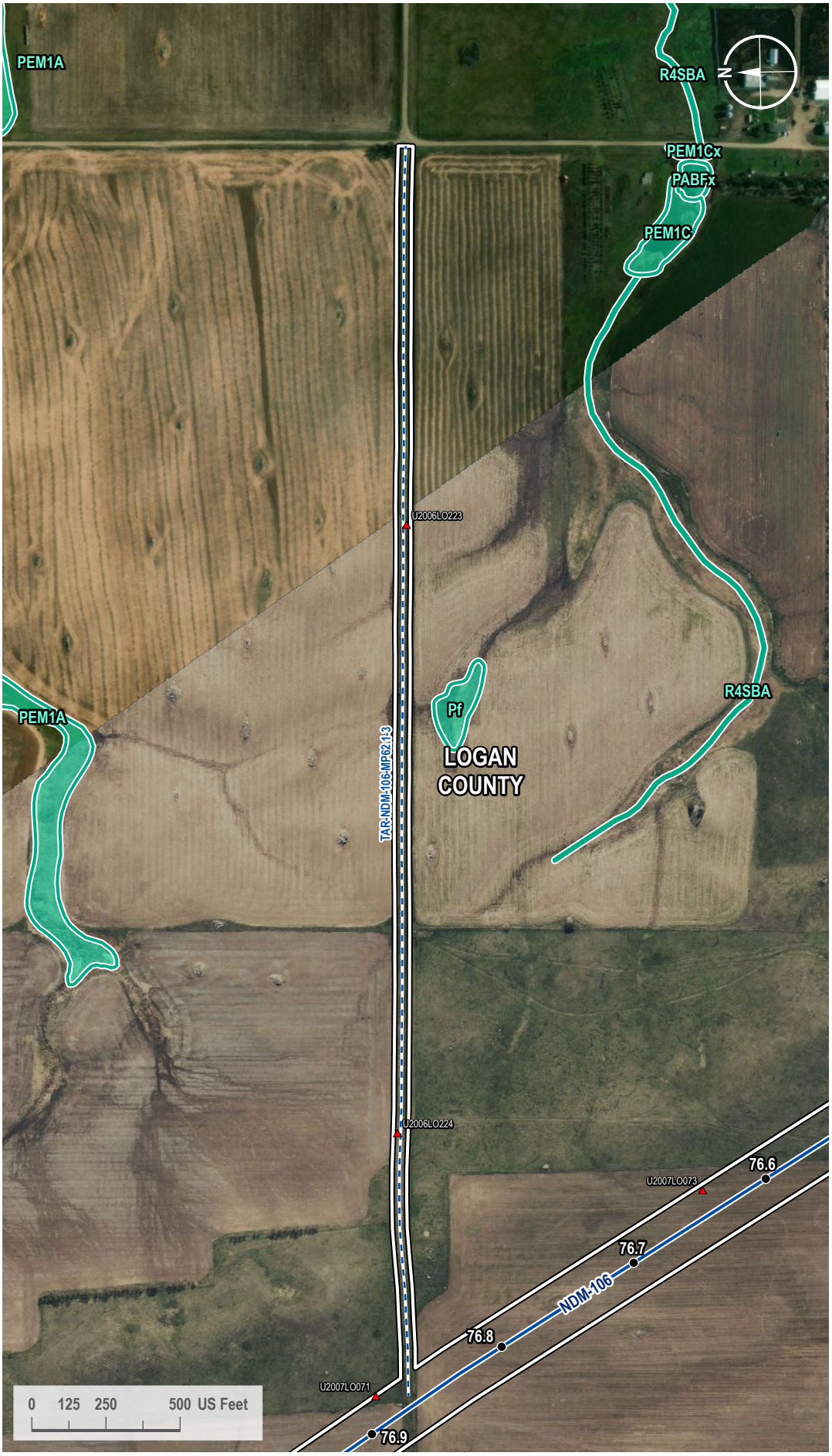

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NWI MAP



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NWI MAP



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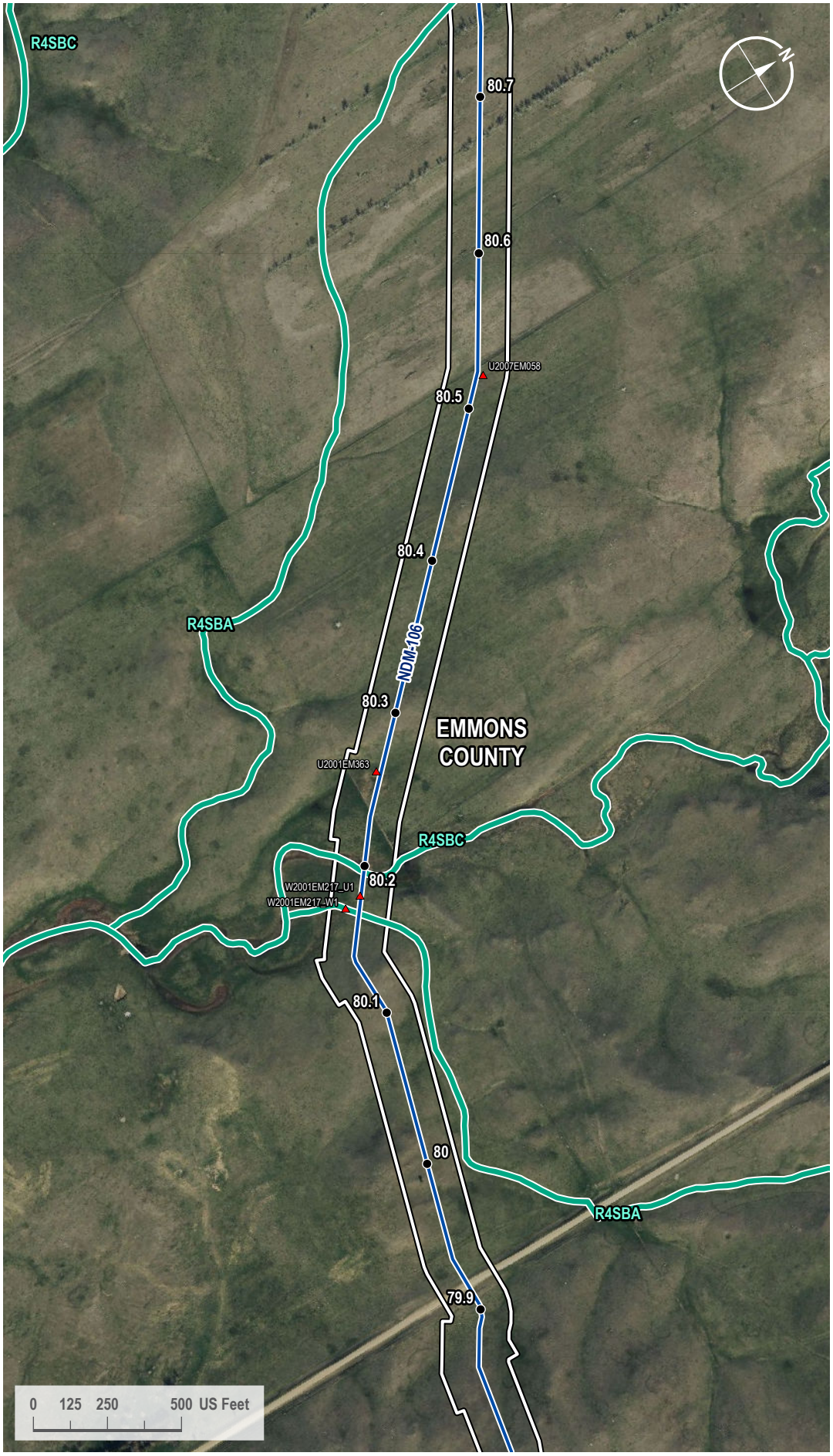

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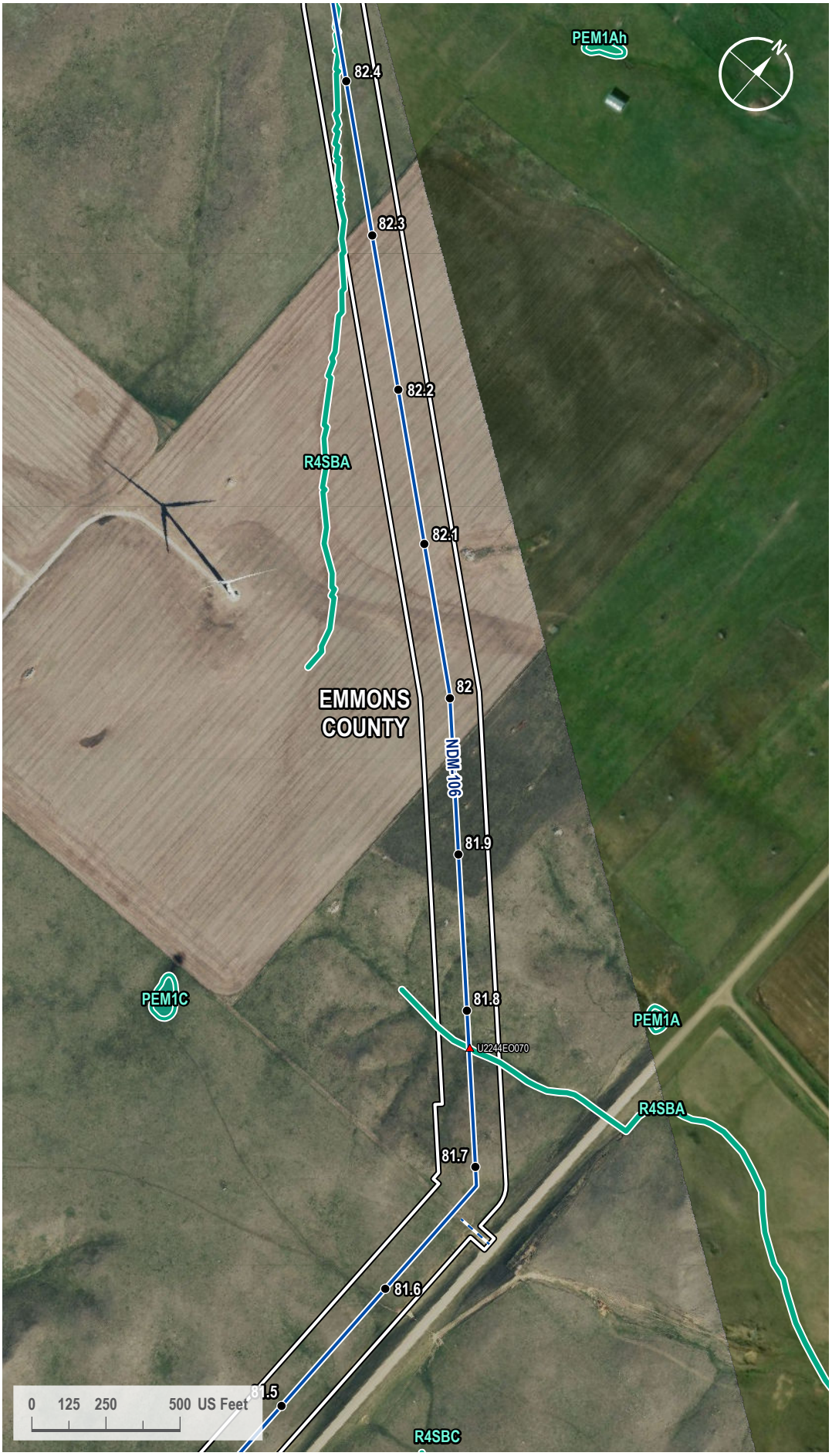

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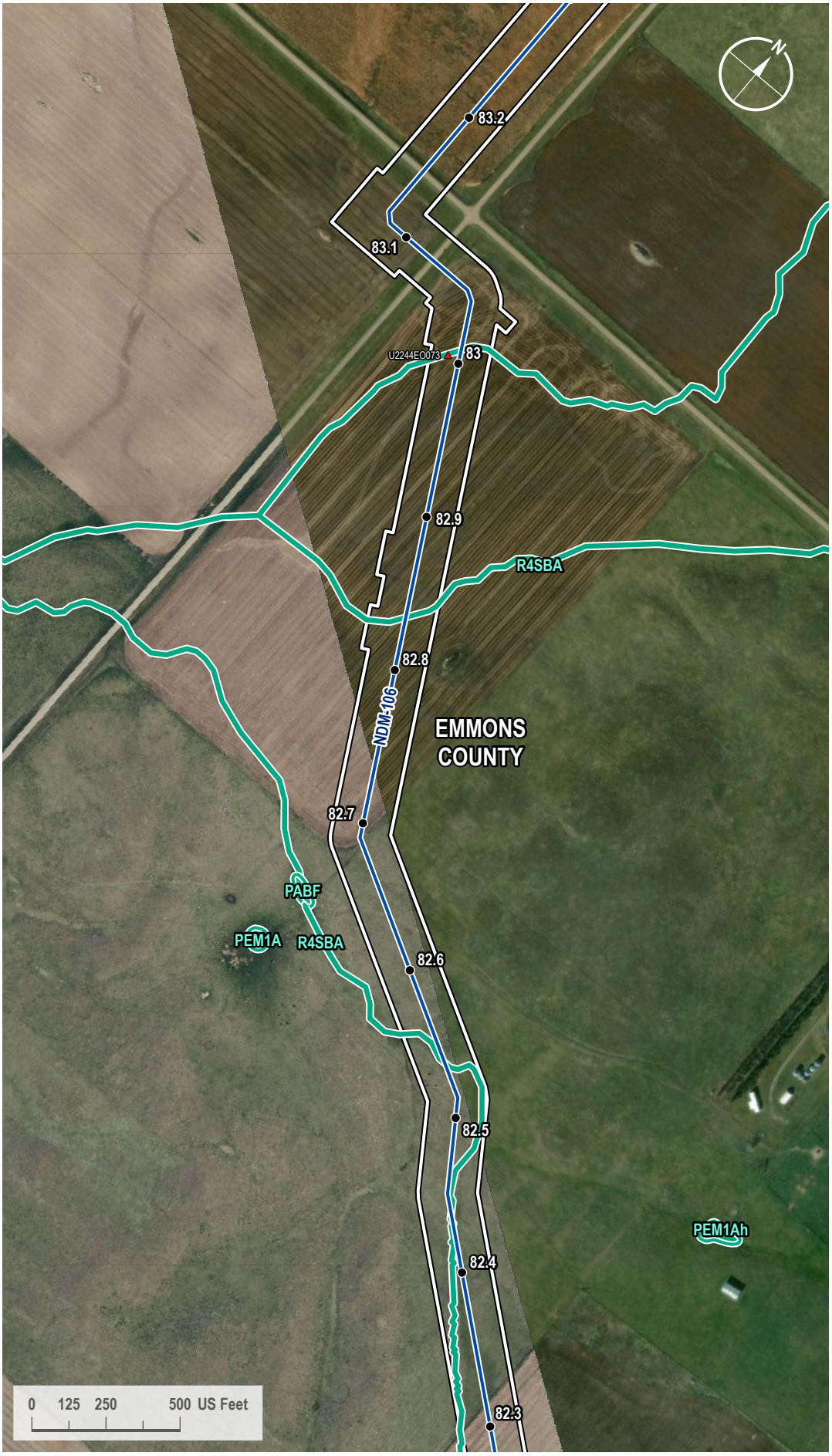

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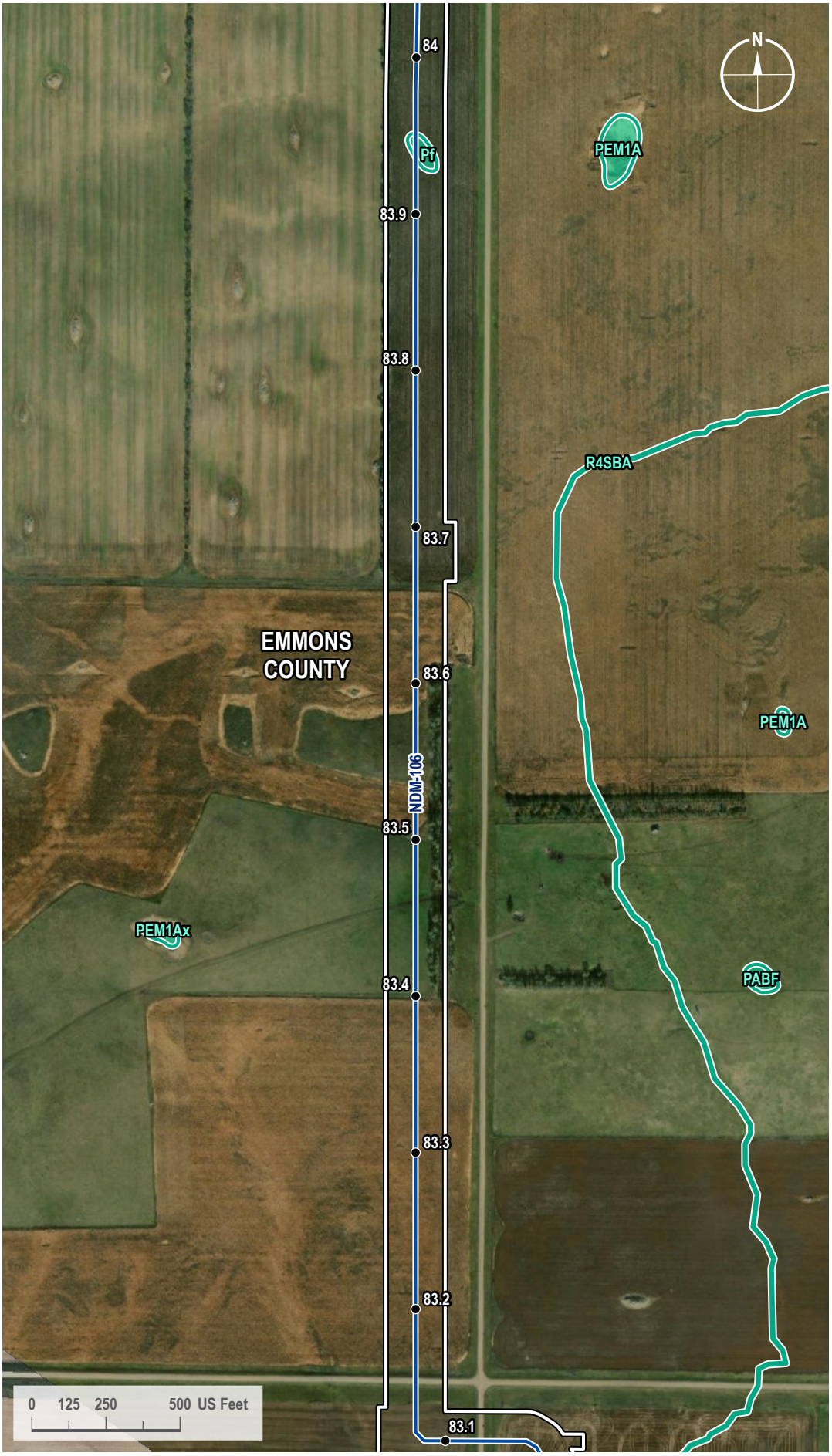

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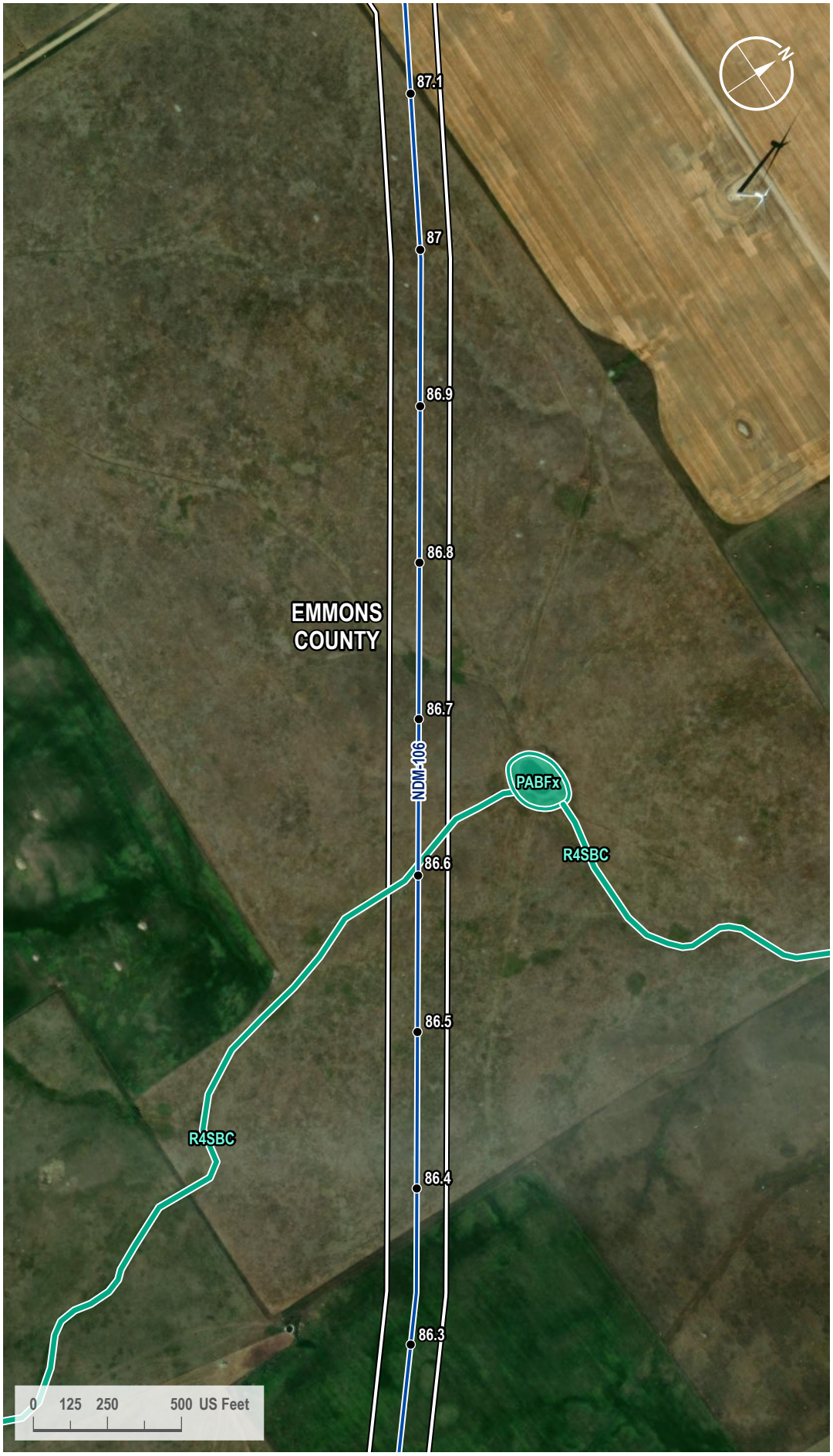

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

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NWI MAP



VICINITY MAP



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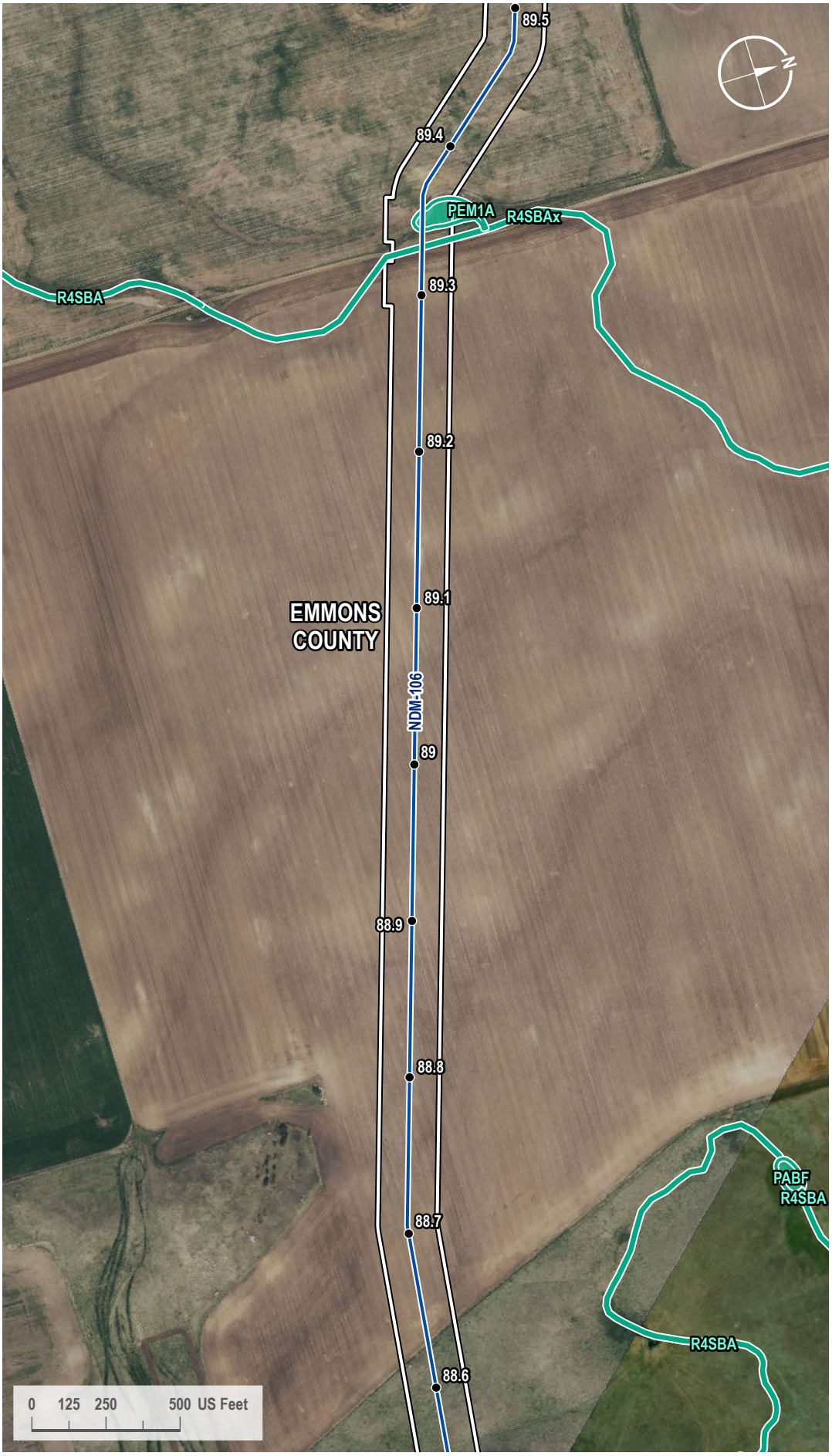

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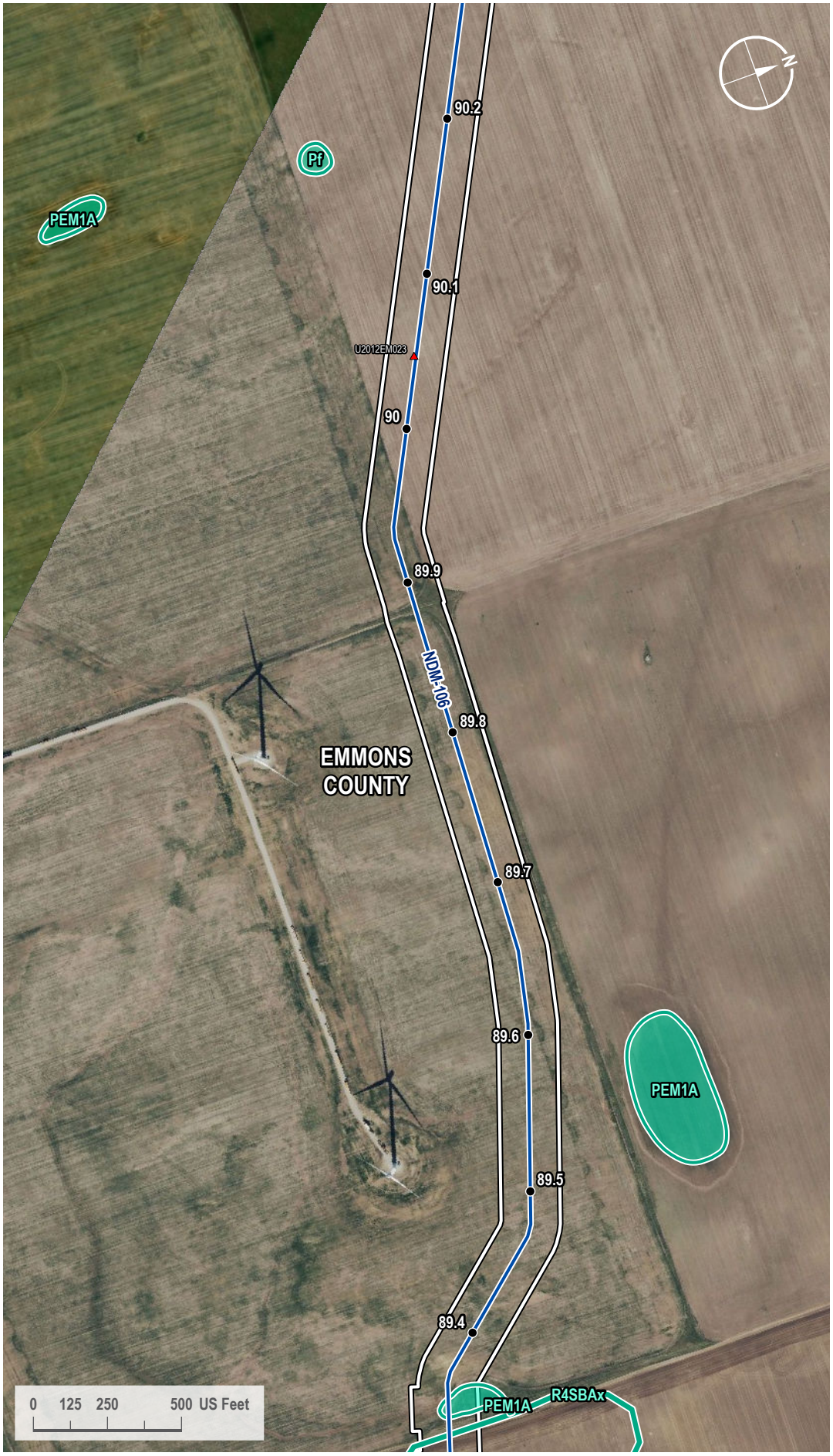

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LEGEND

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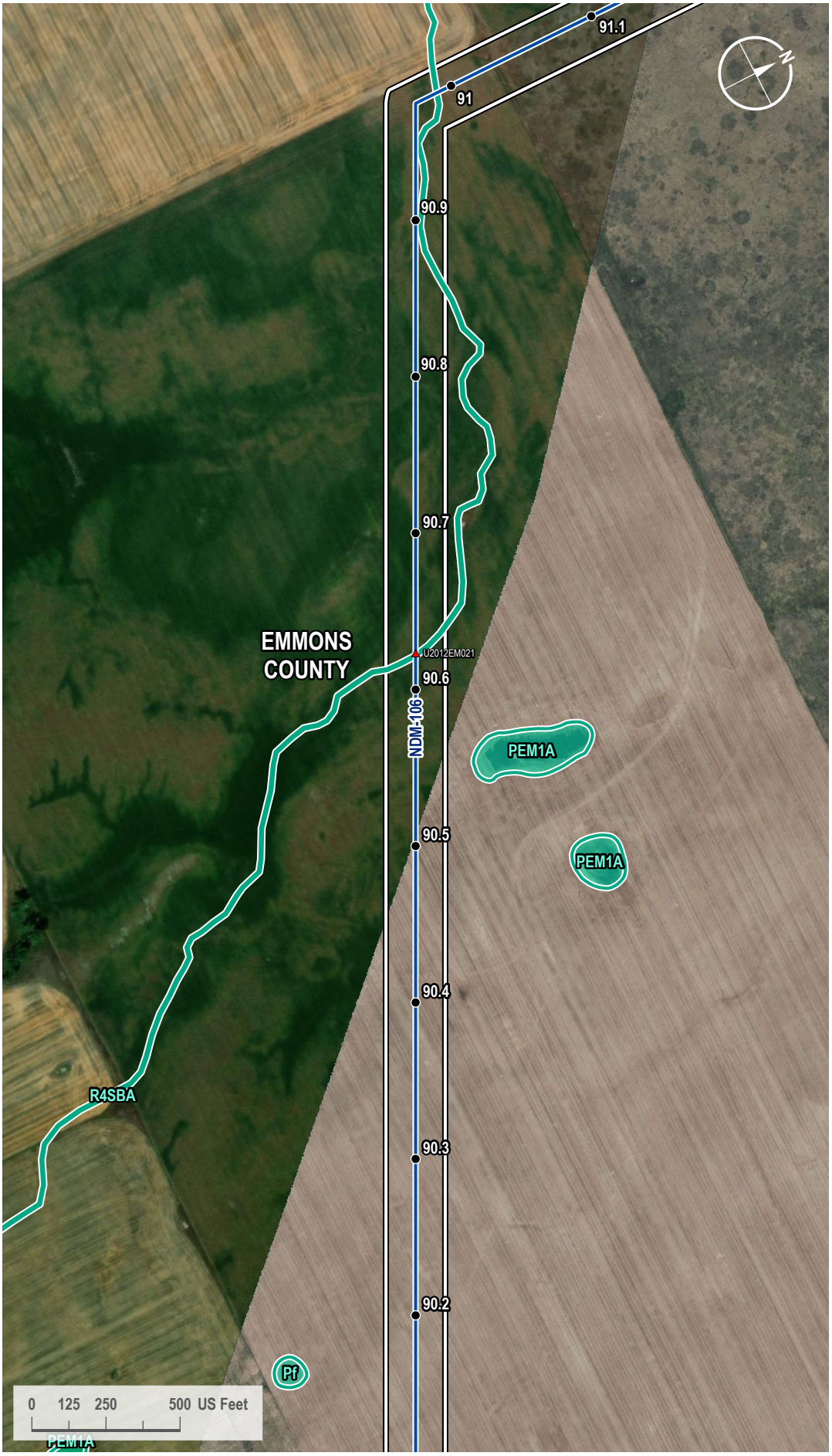

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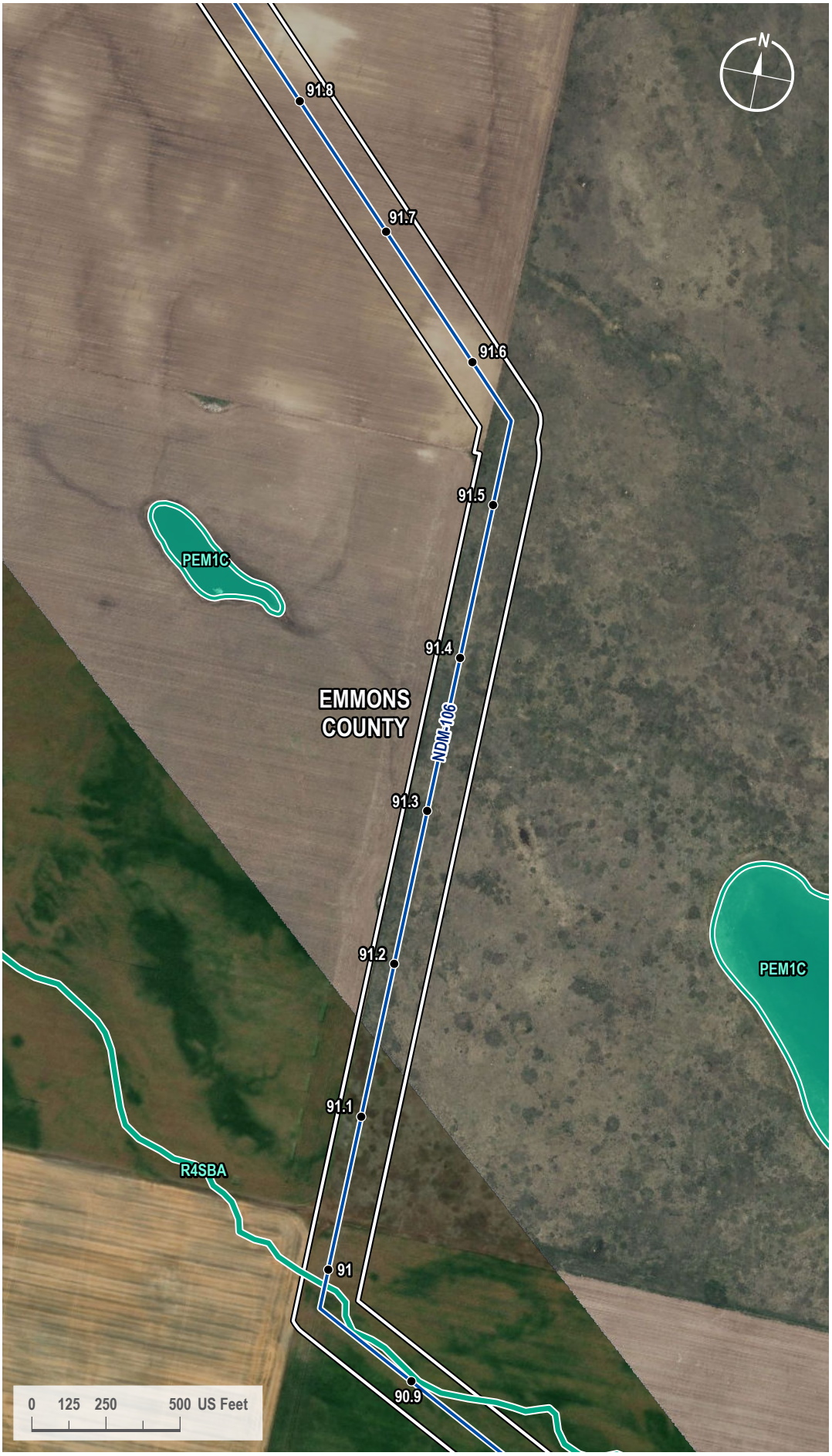

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NWI MAP



VICINITY MAP



LEGEND

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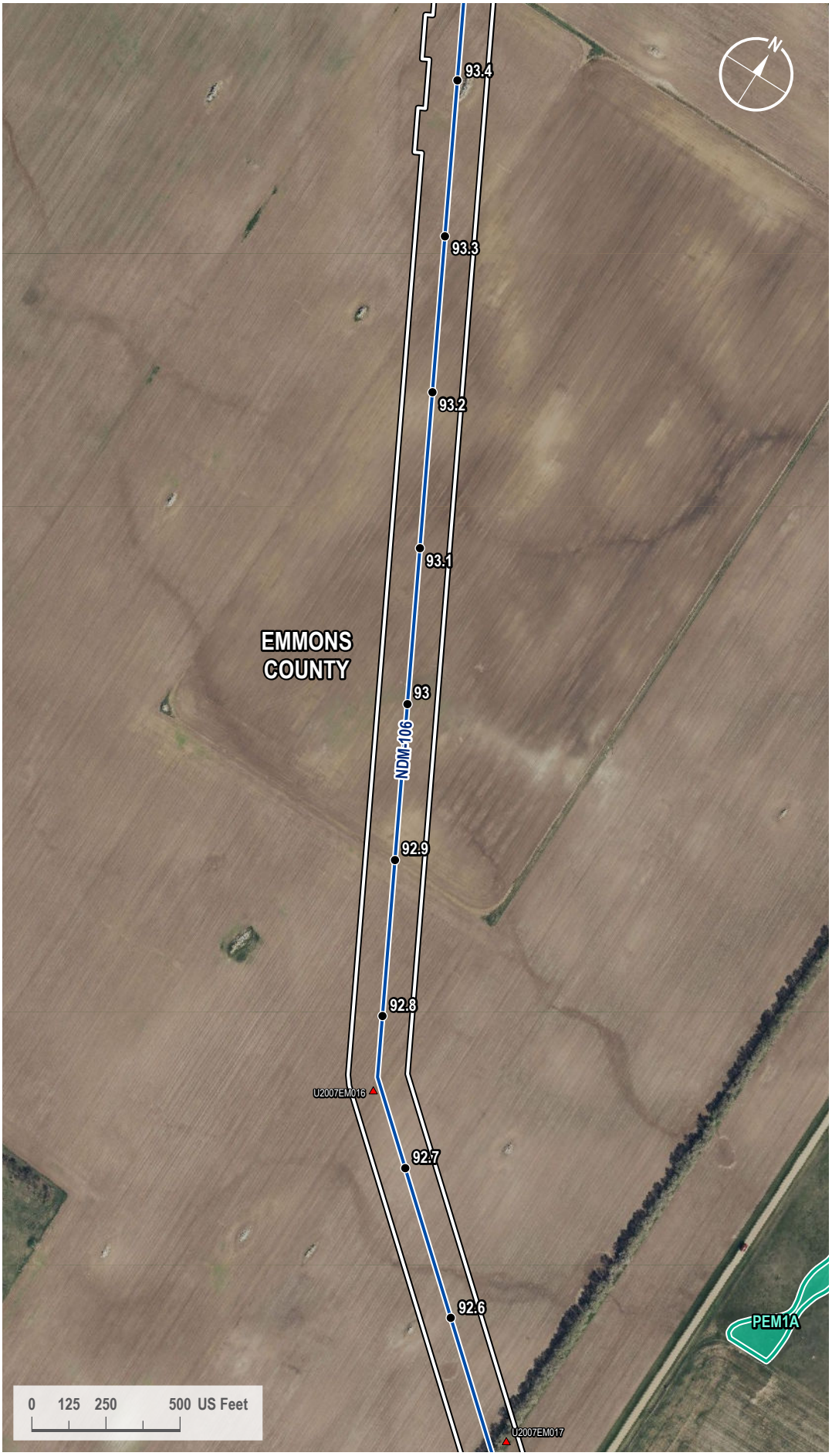

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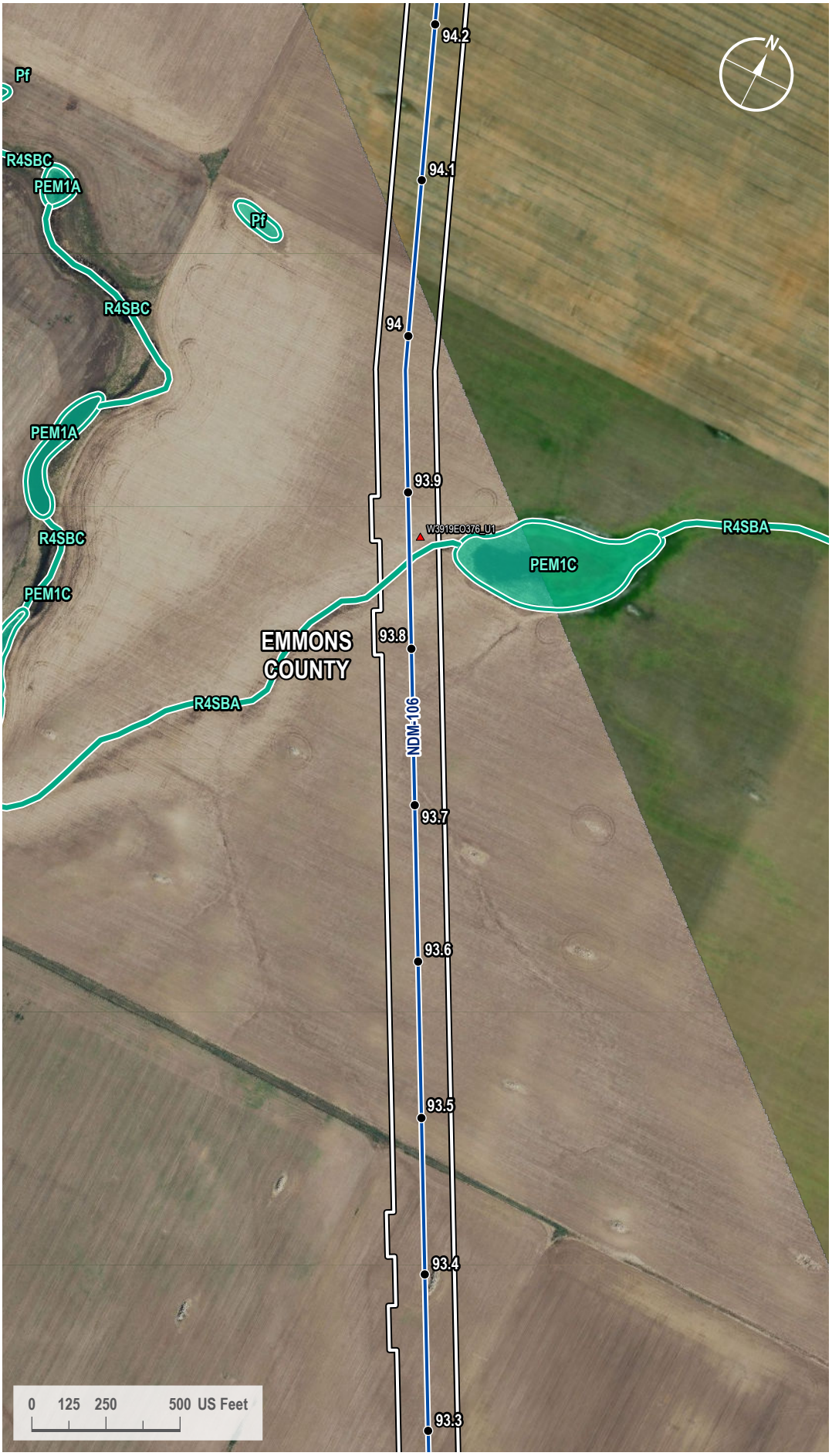

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LEGEND

- Milepost
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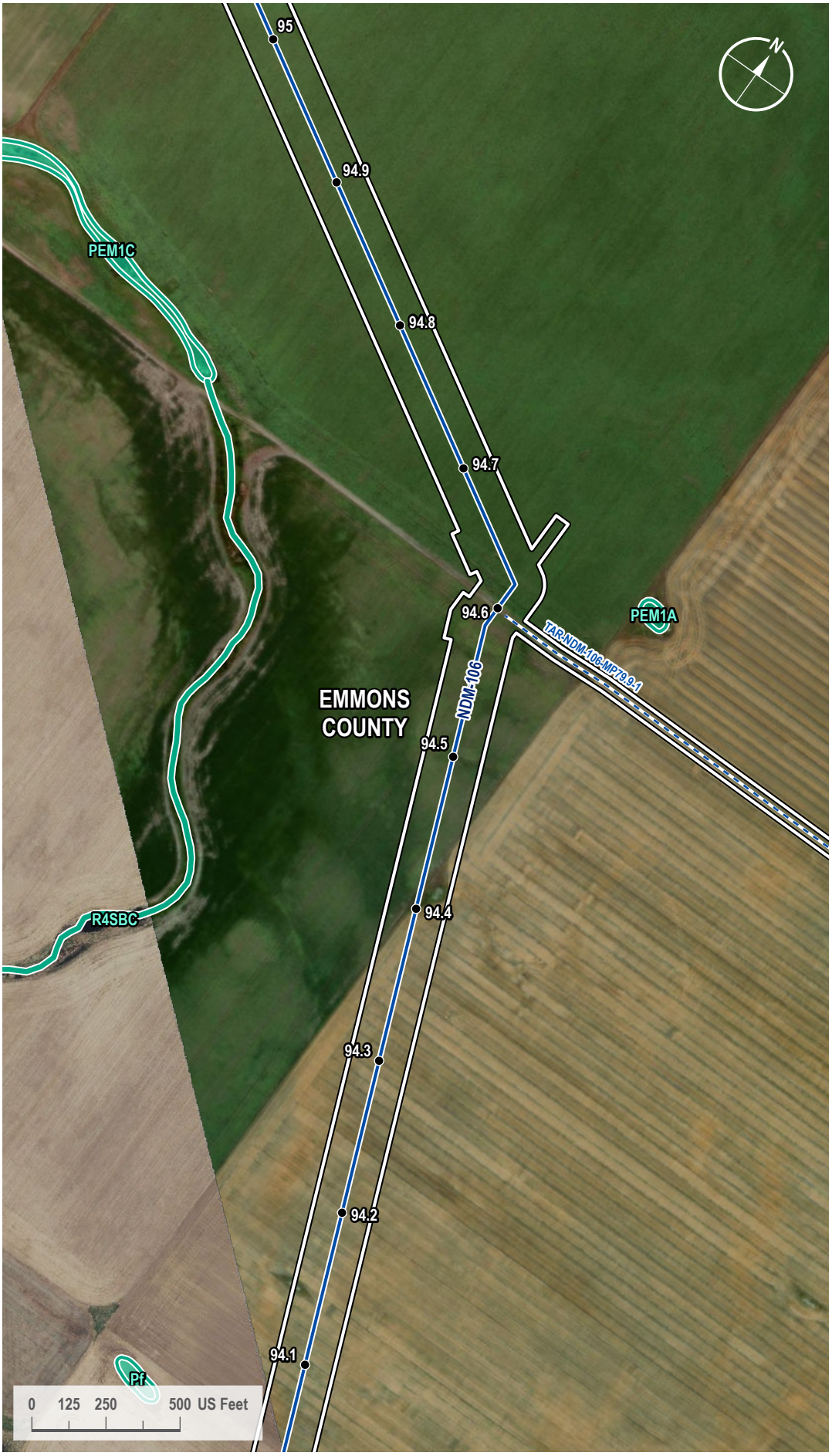

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
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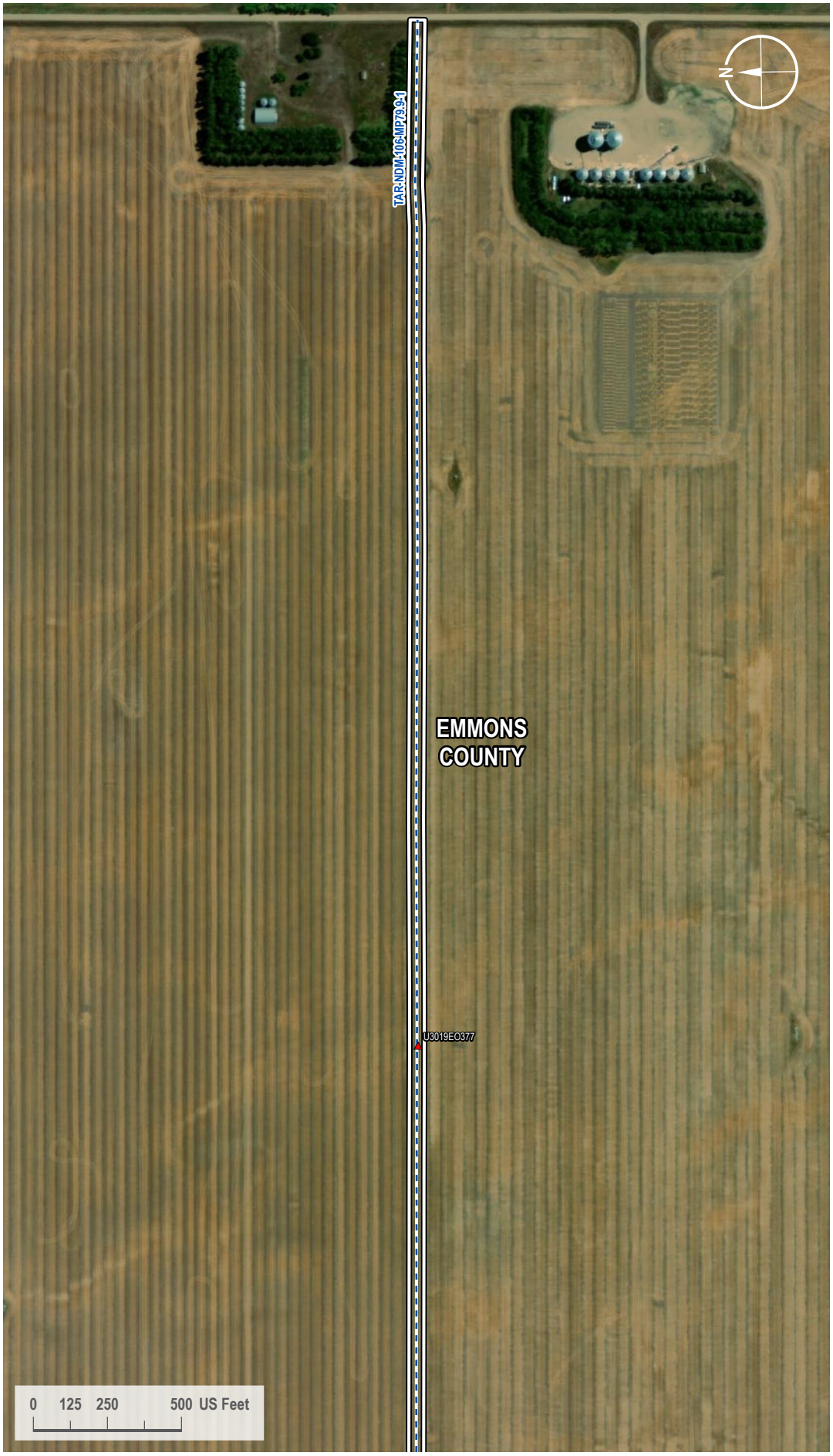

VICINITY MAP



LEGEND

- Soil Station
- Access Road
- 200-foot Siting Corridor

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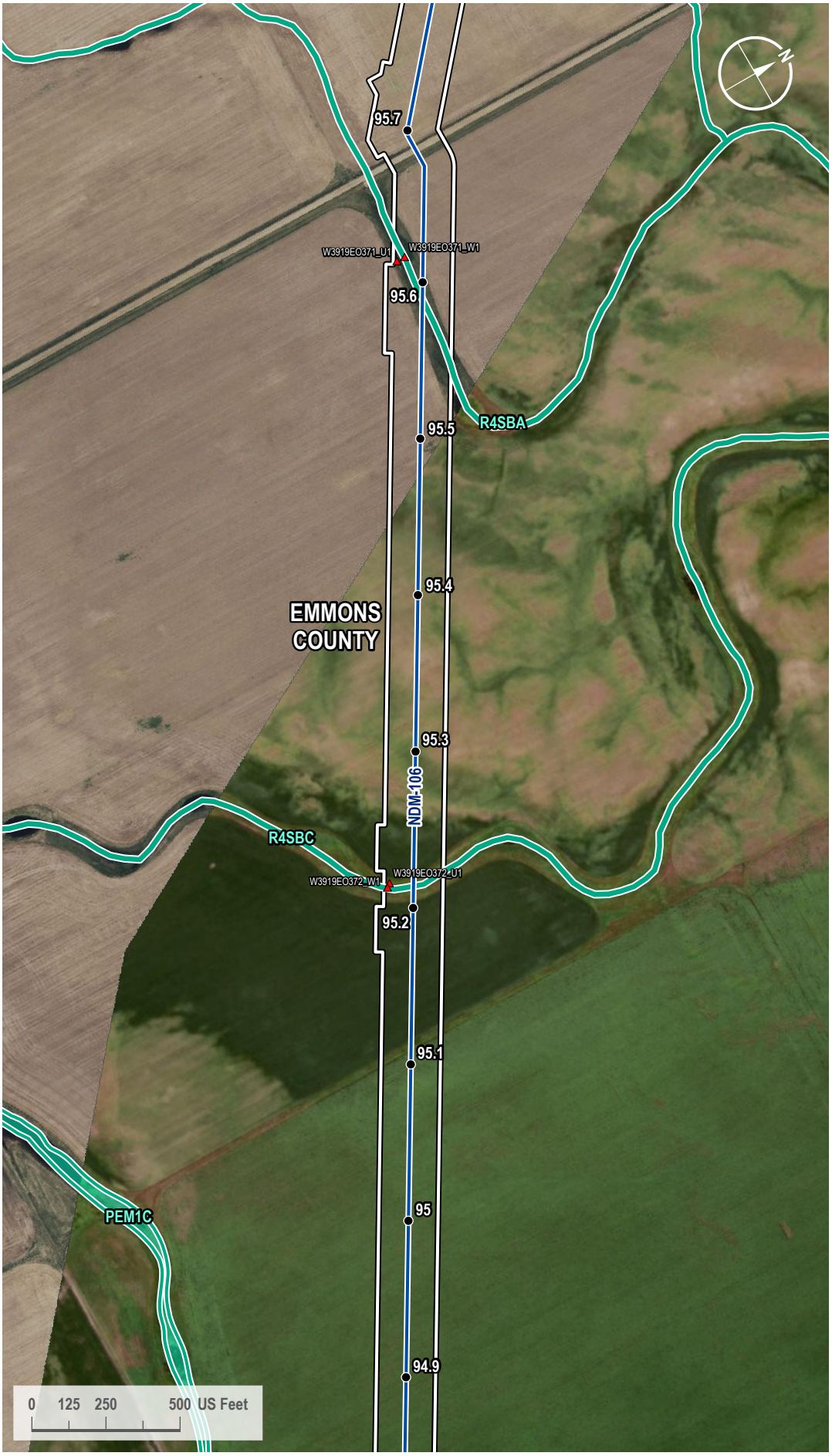

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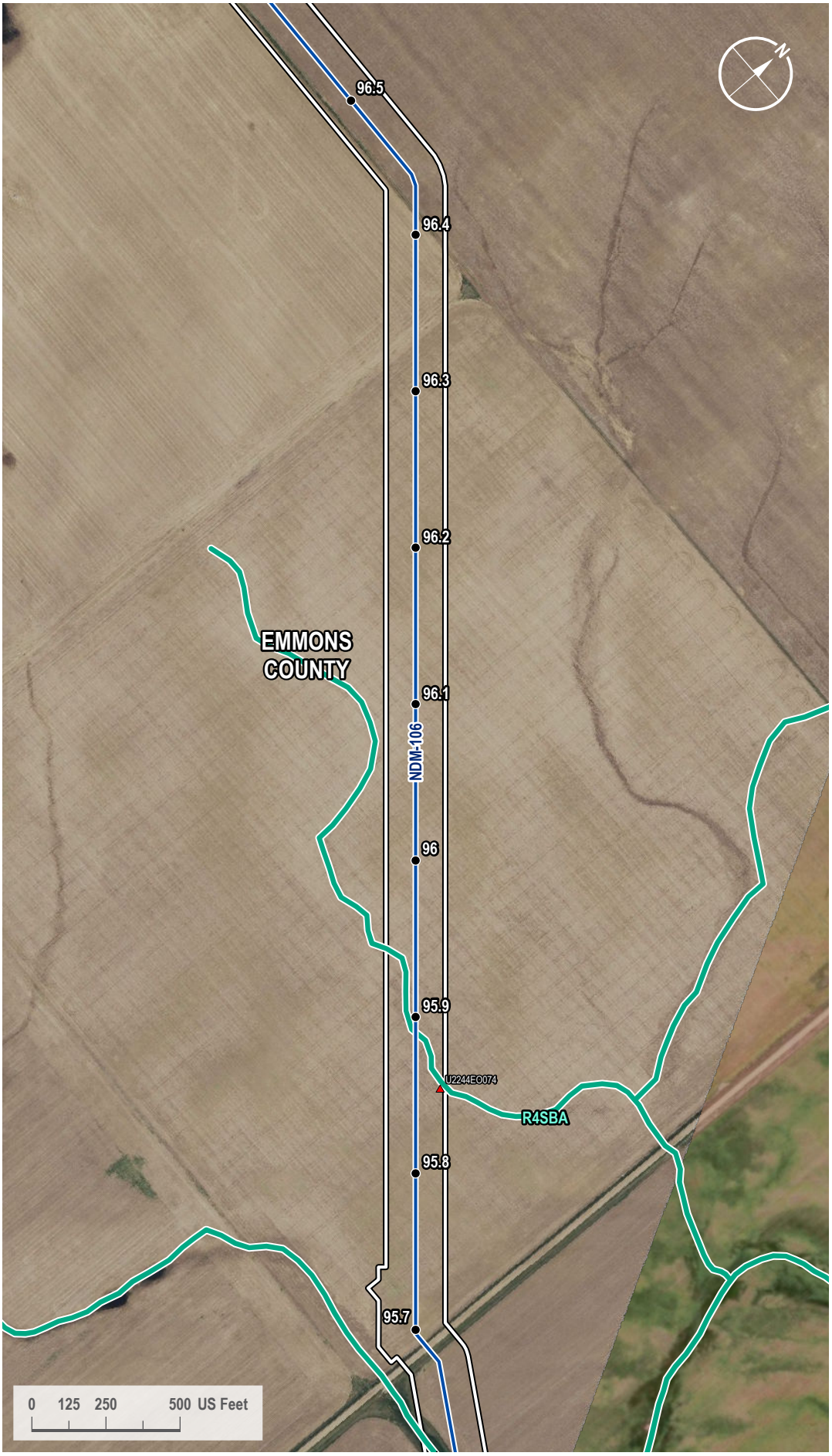

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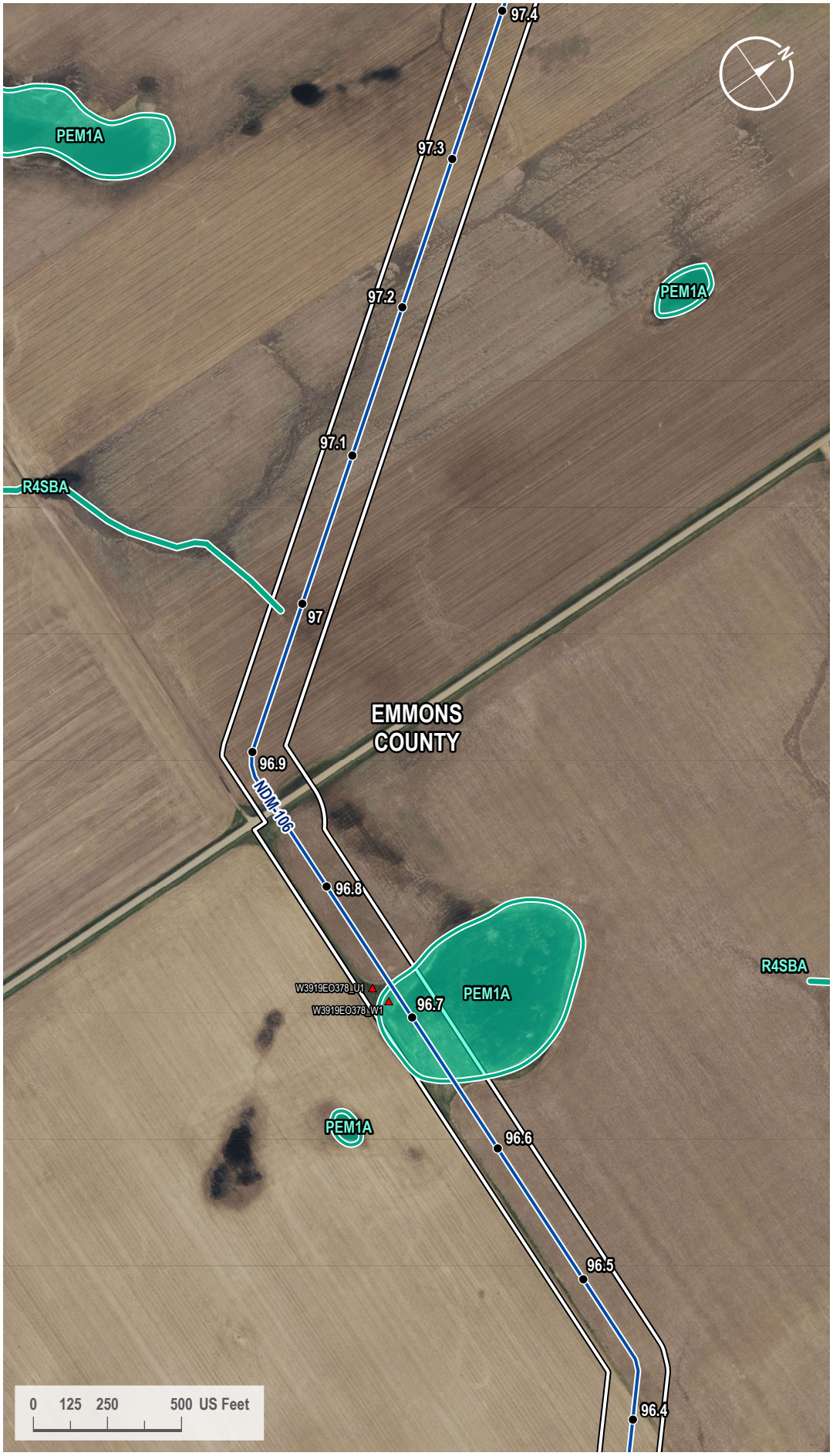

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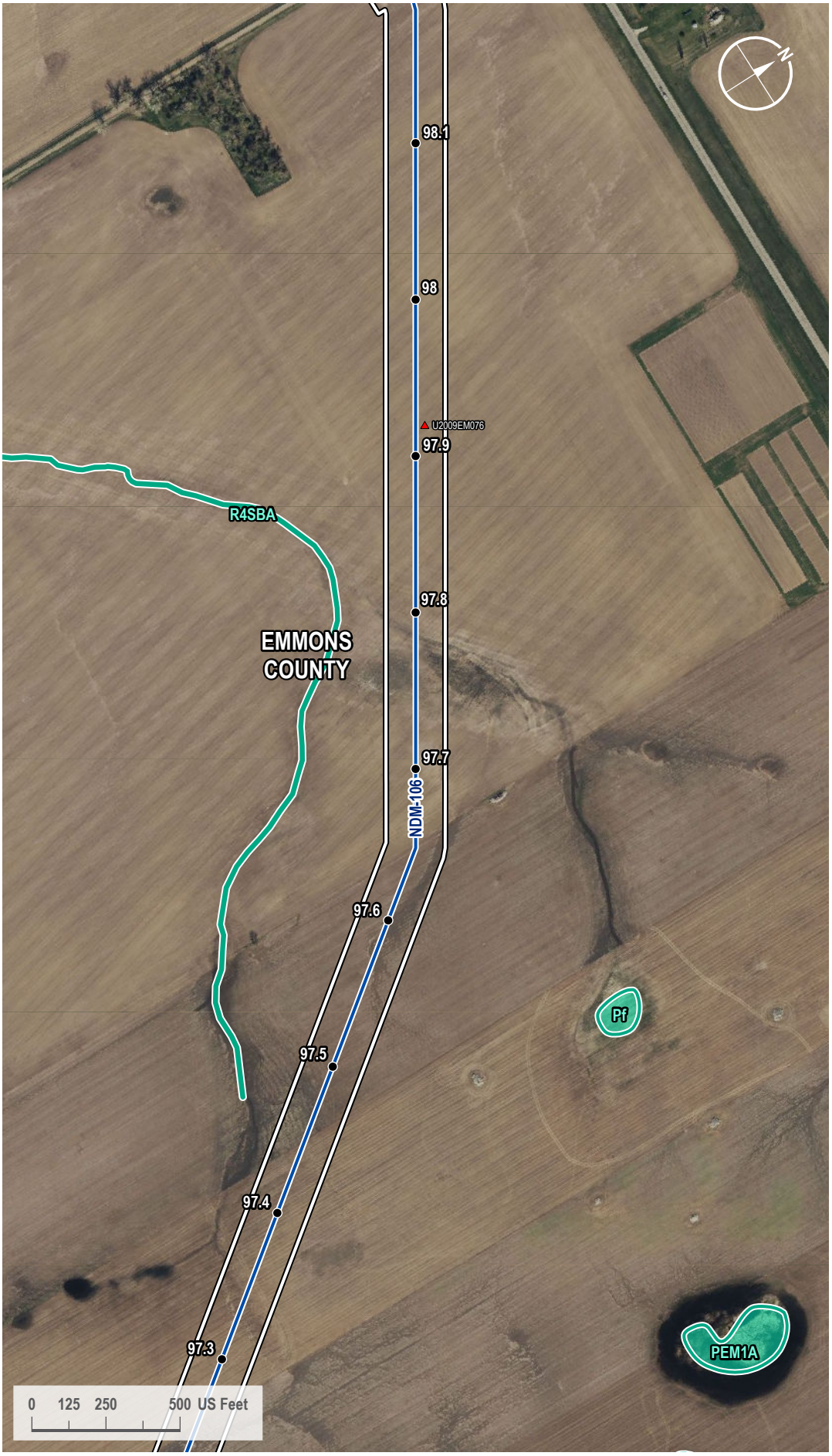

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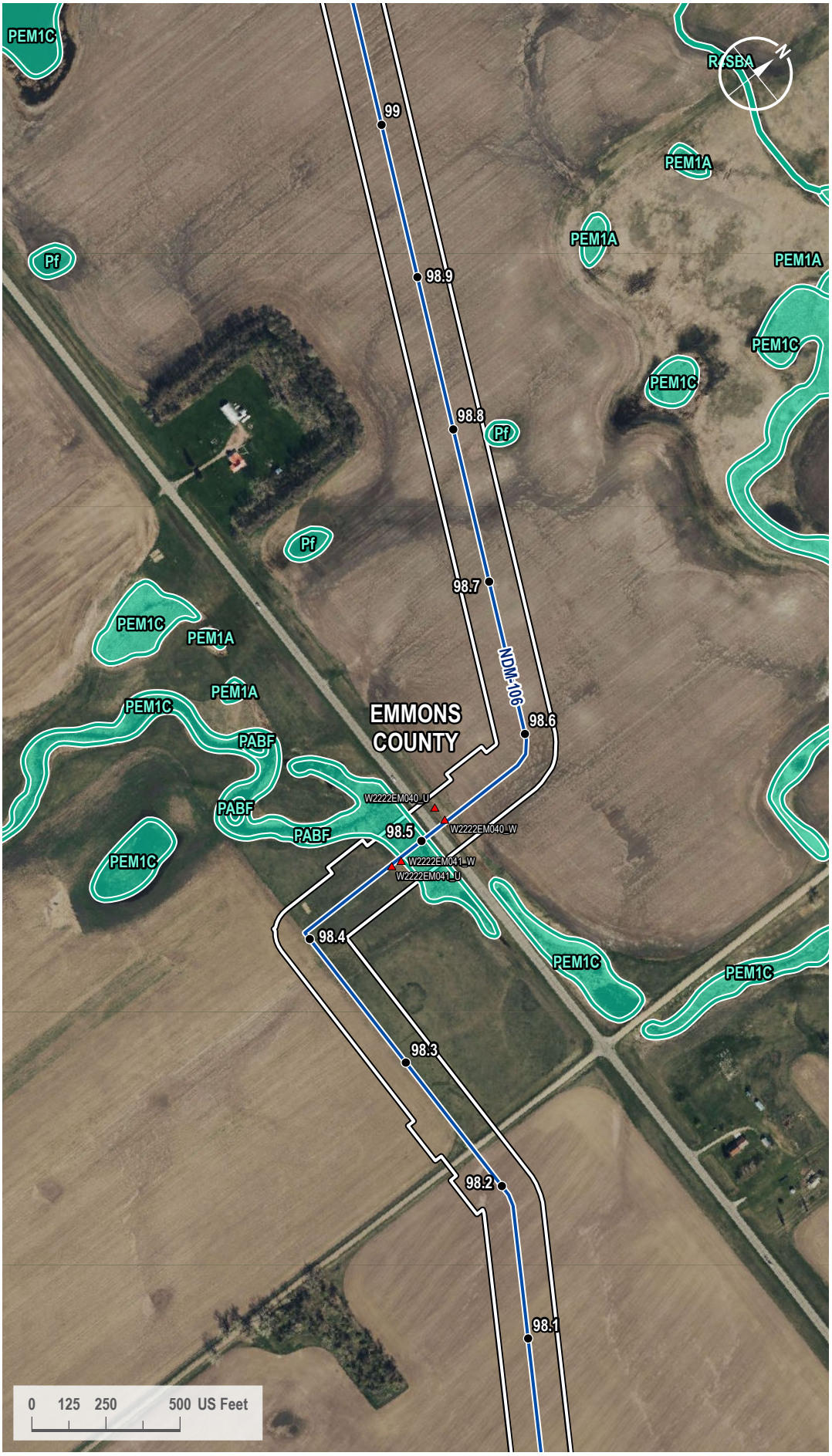

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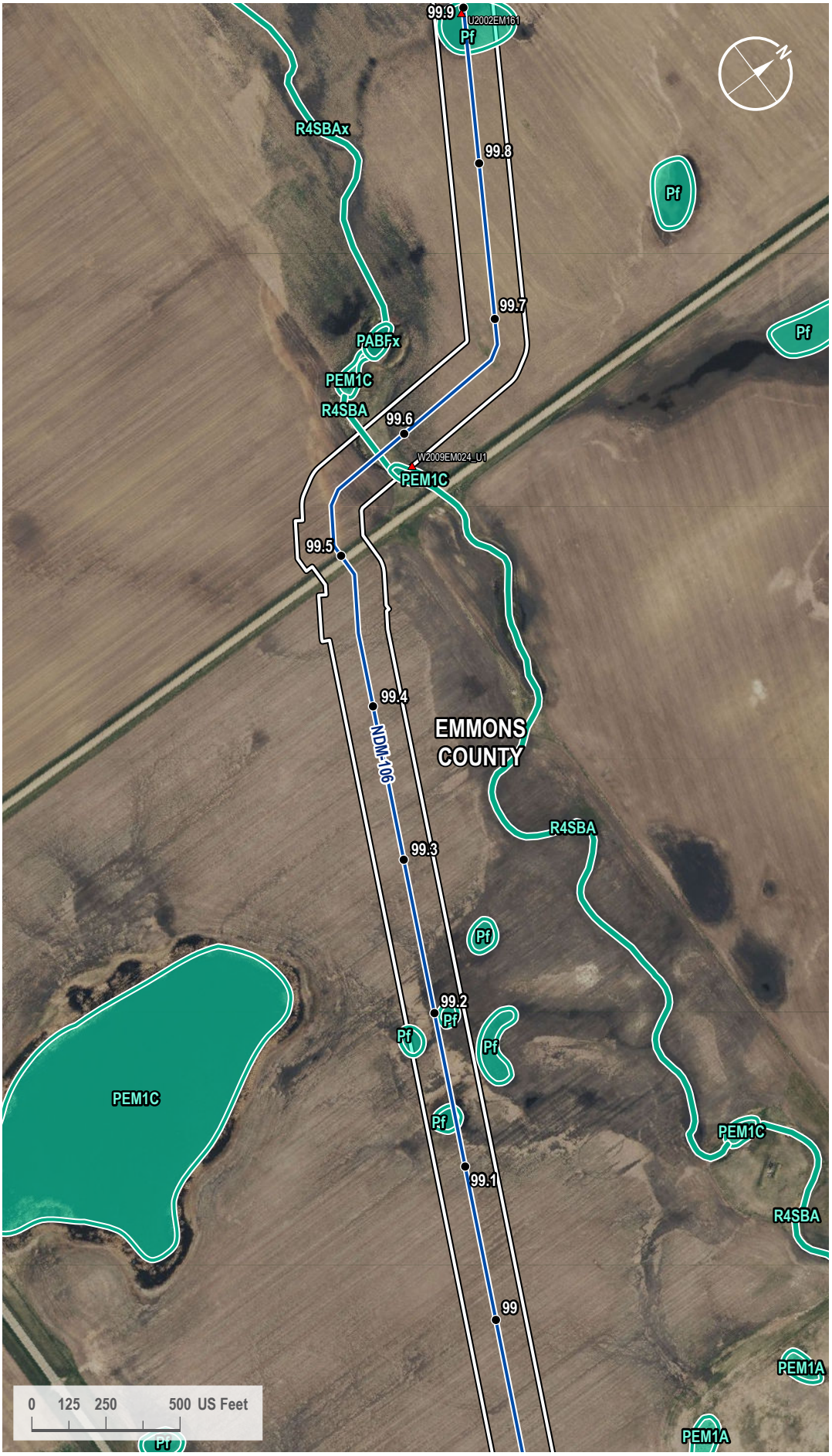

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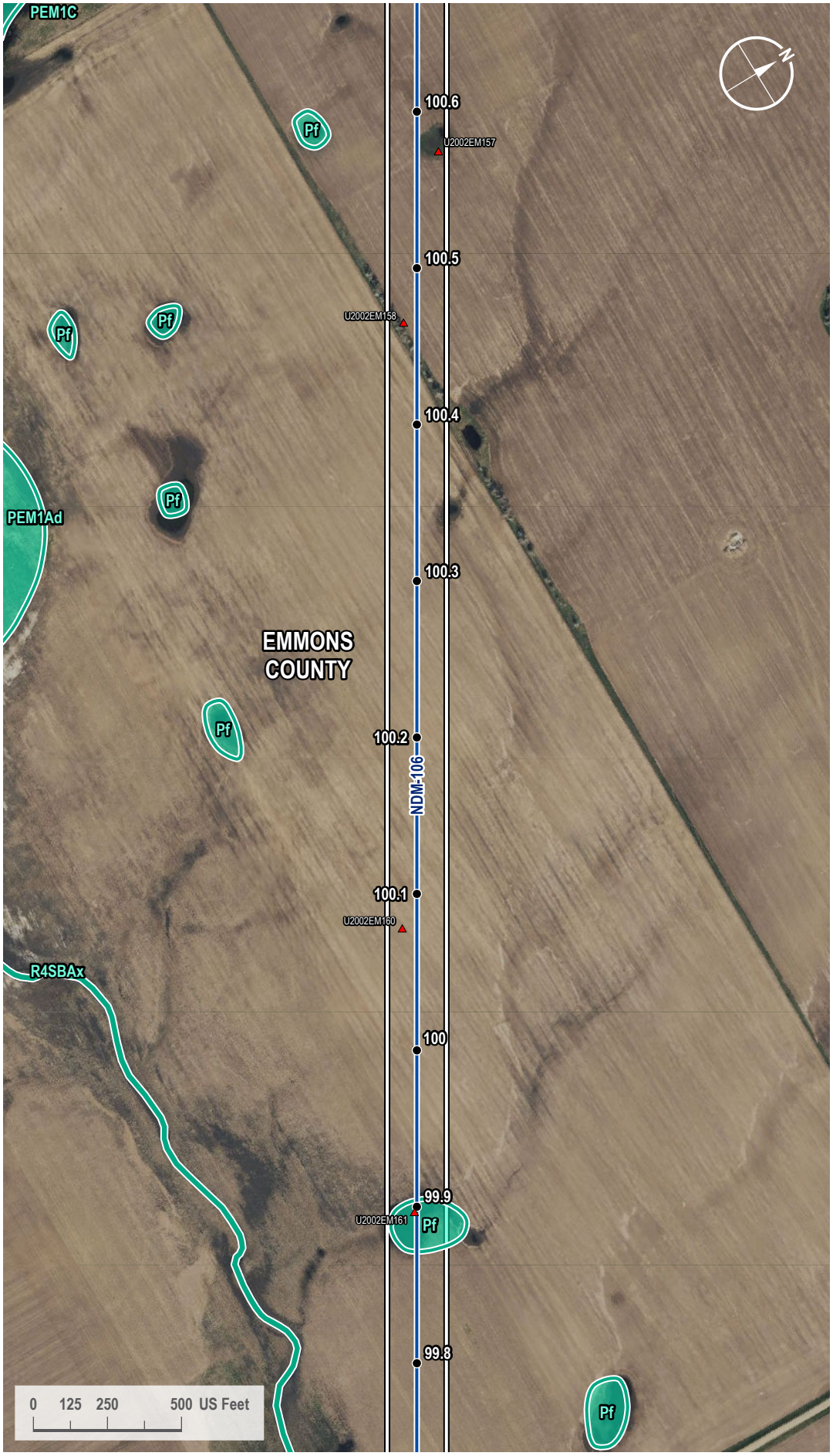

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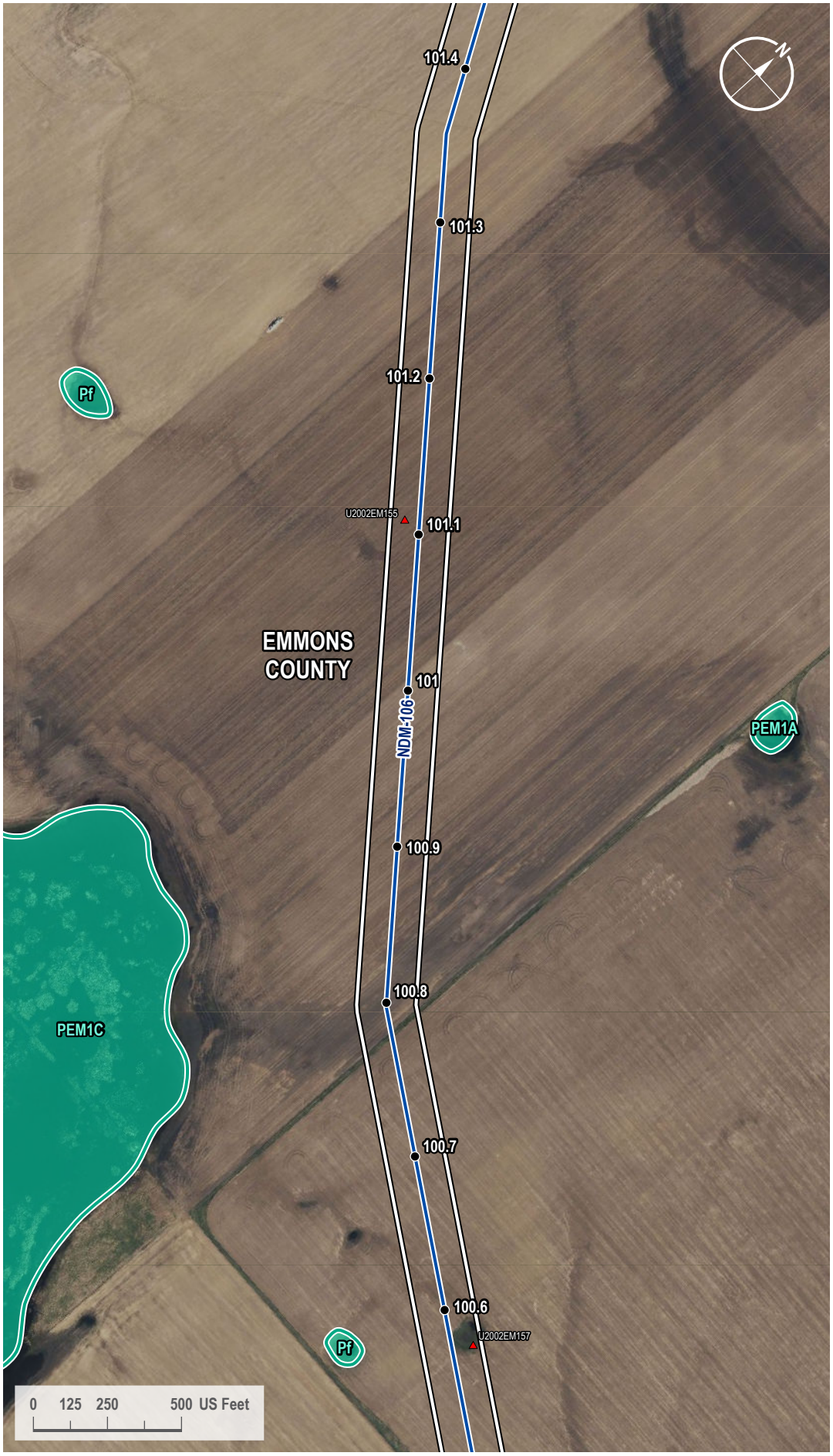
NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Figure Title: NWI Map

Figure Number: Appendix A-4

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
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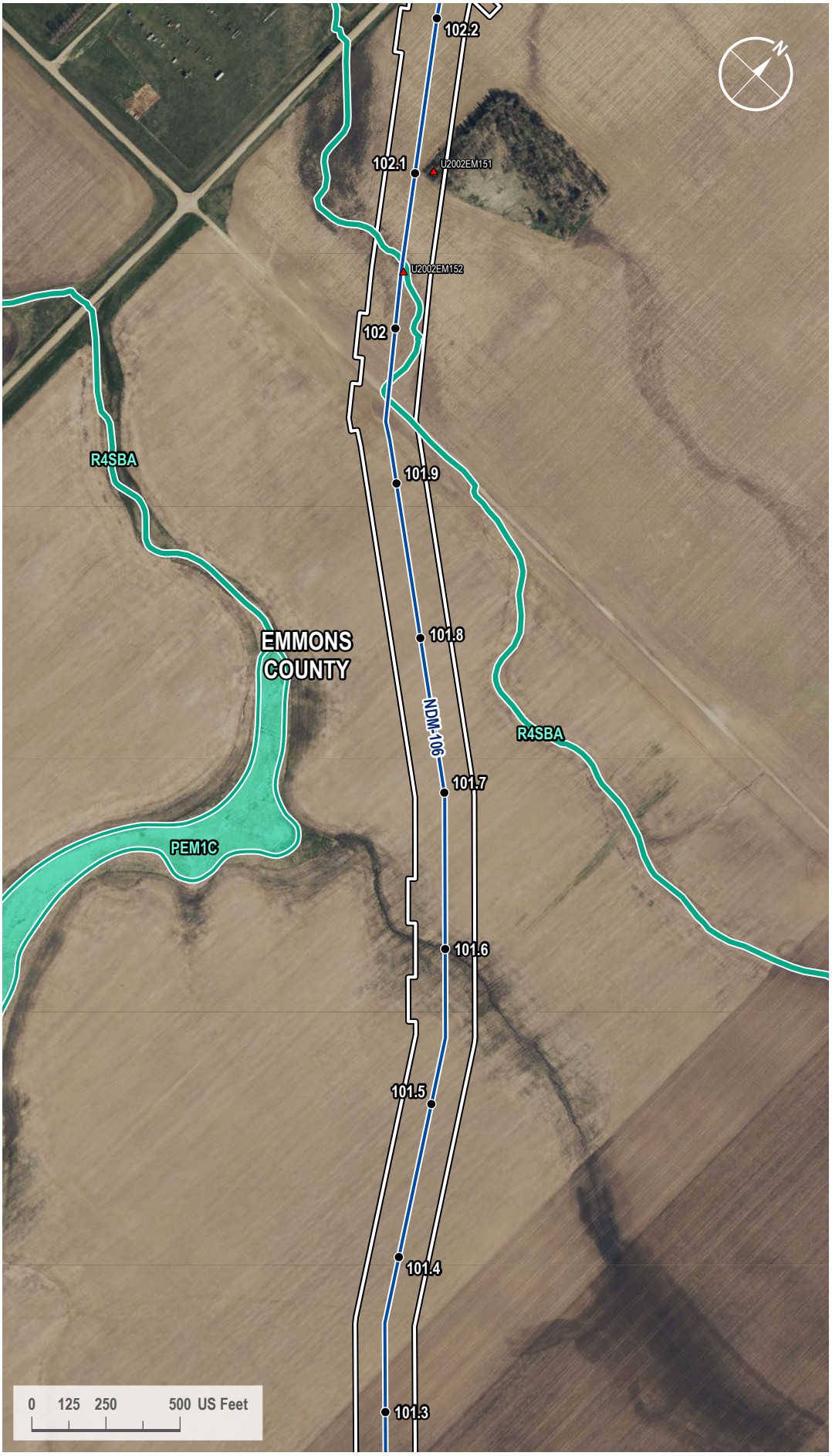

VICINITY MAP



LEGEND

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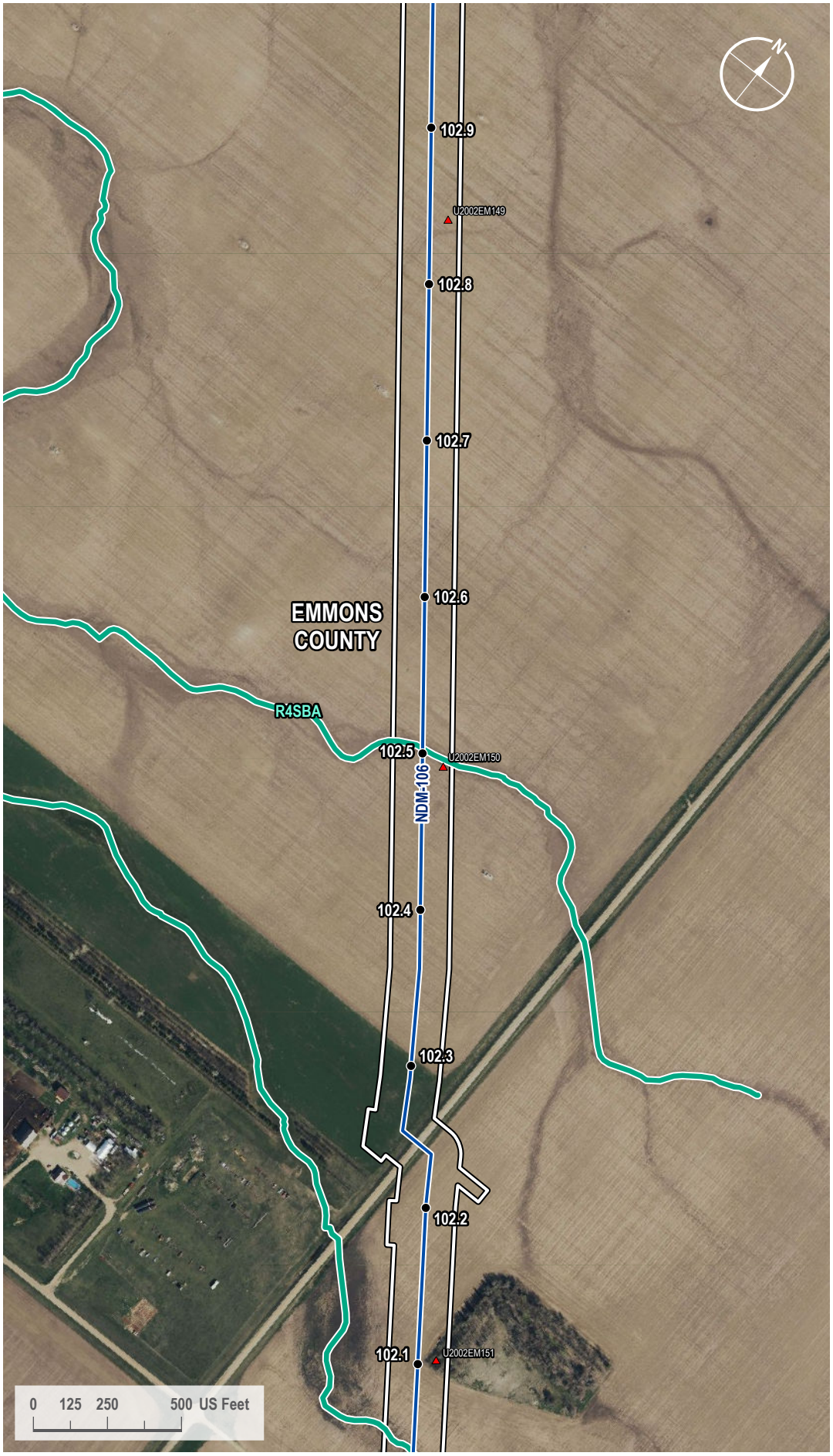

VICINITY MAP



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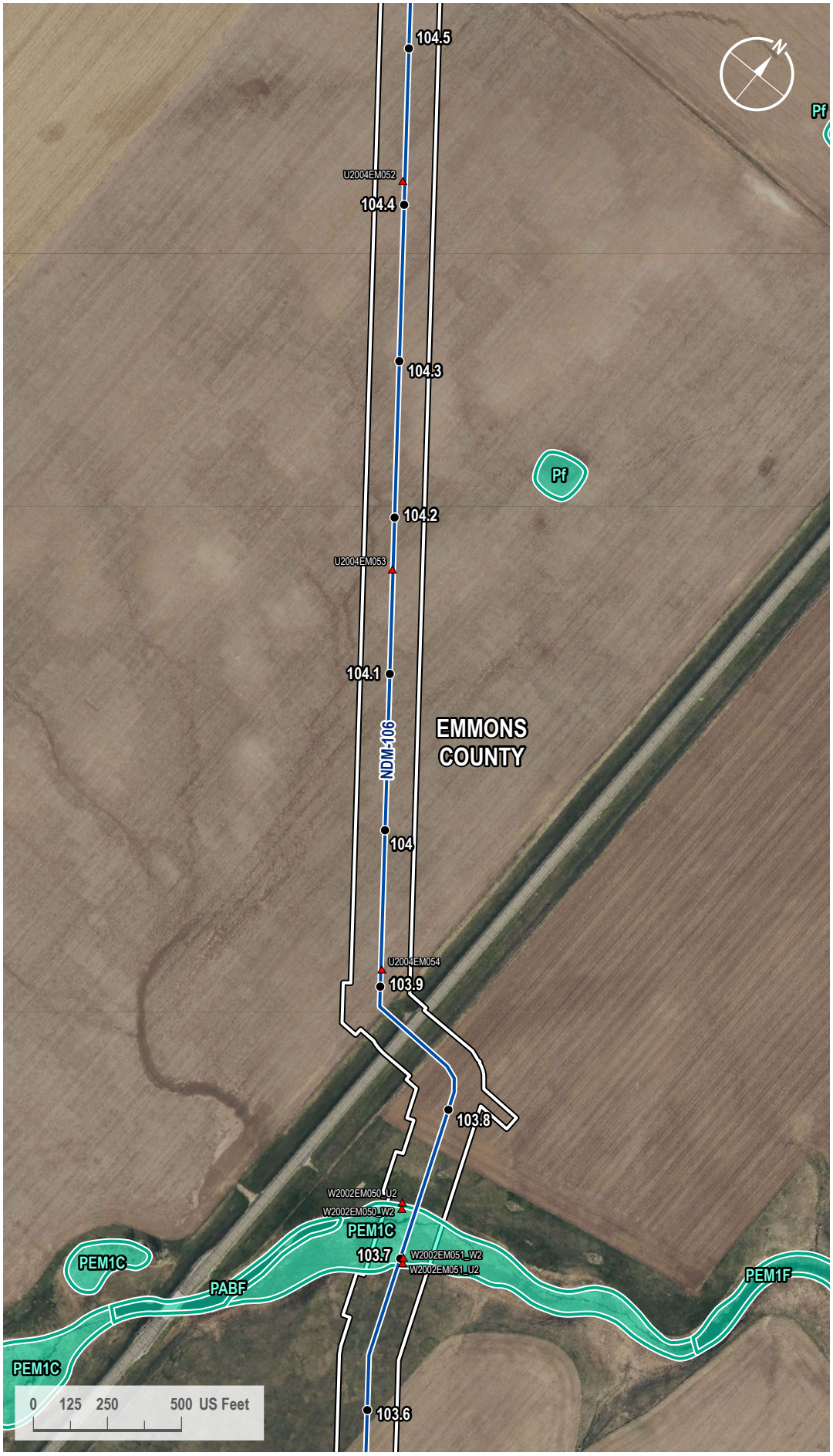

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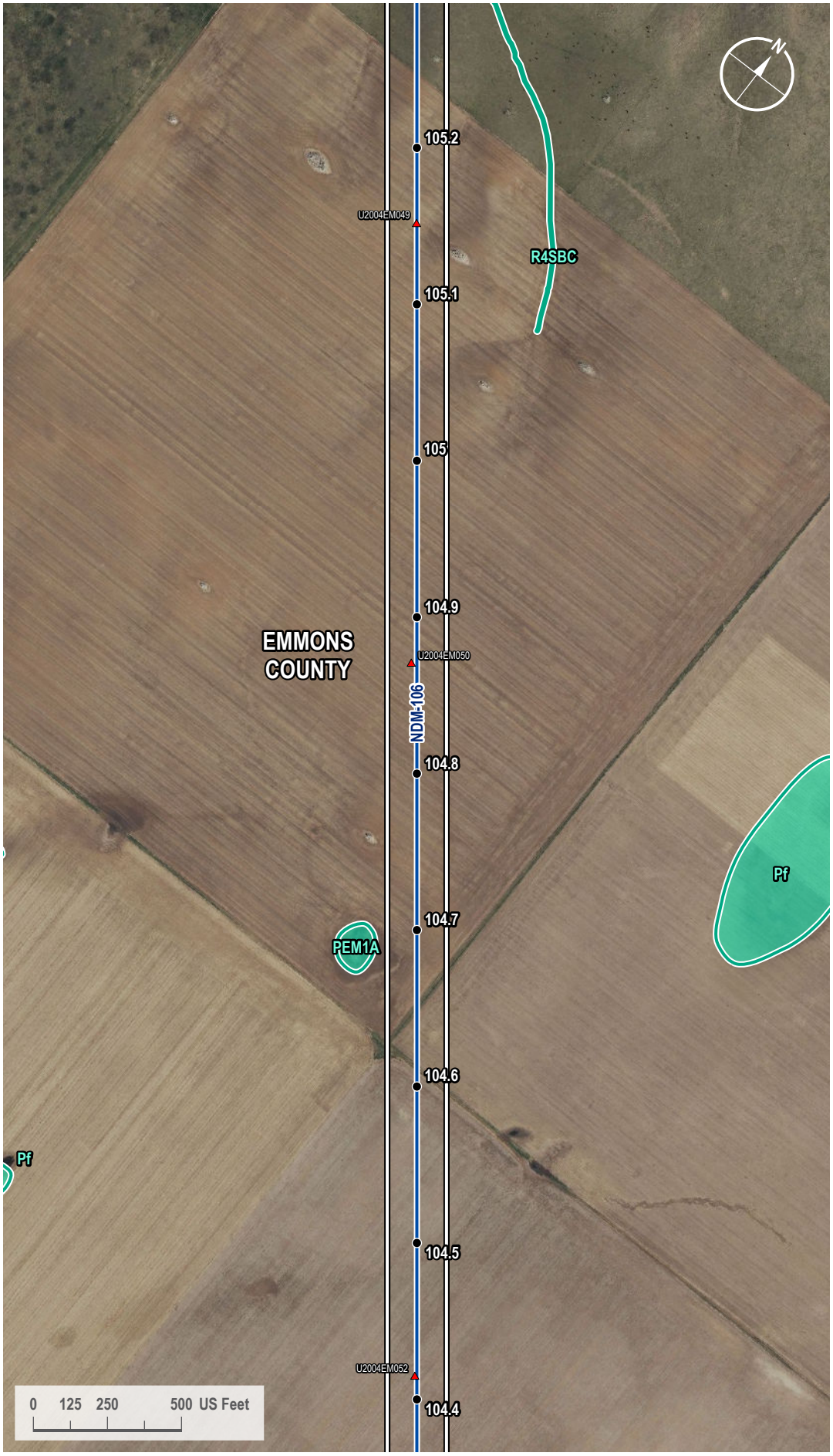

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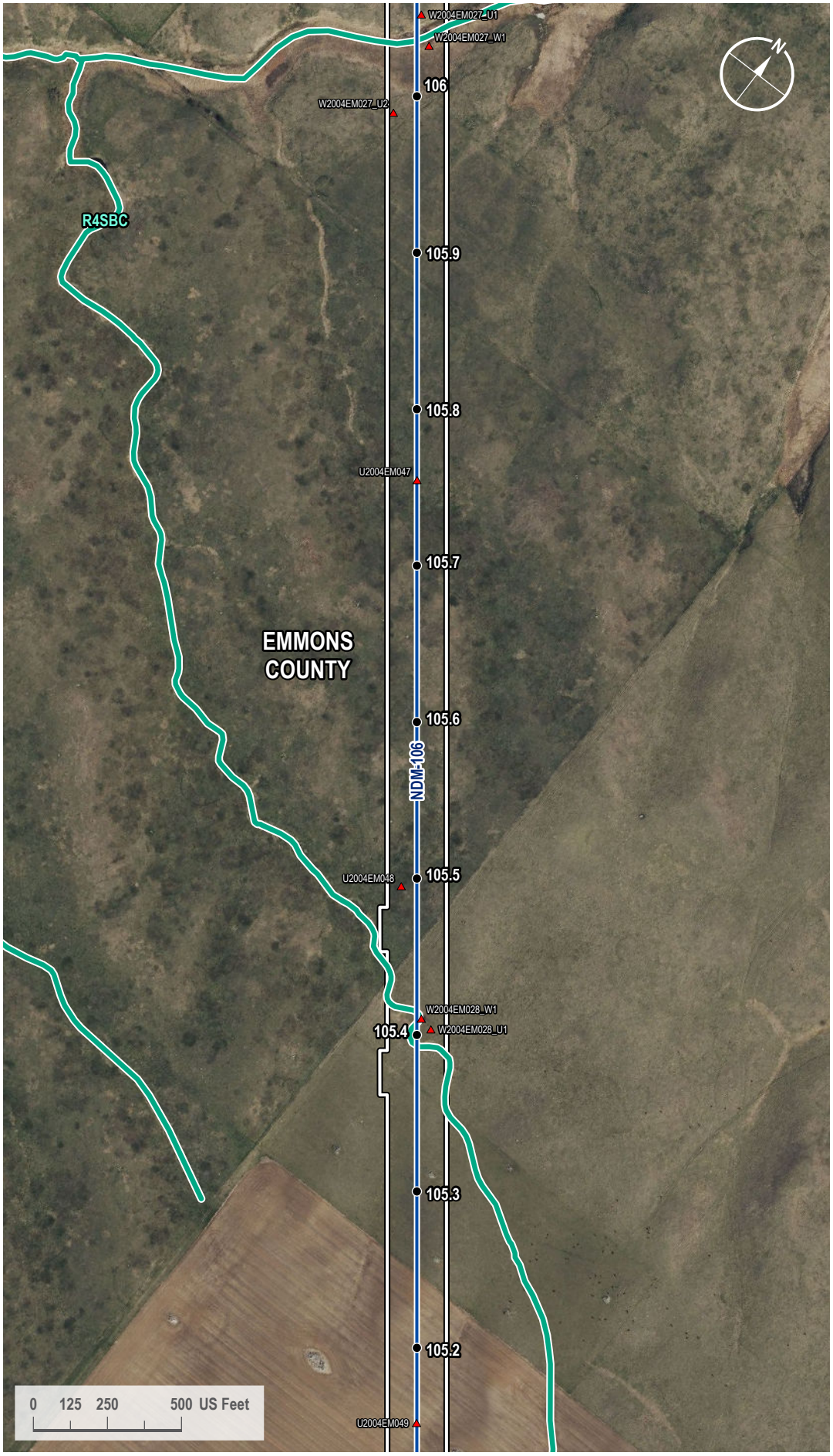

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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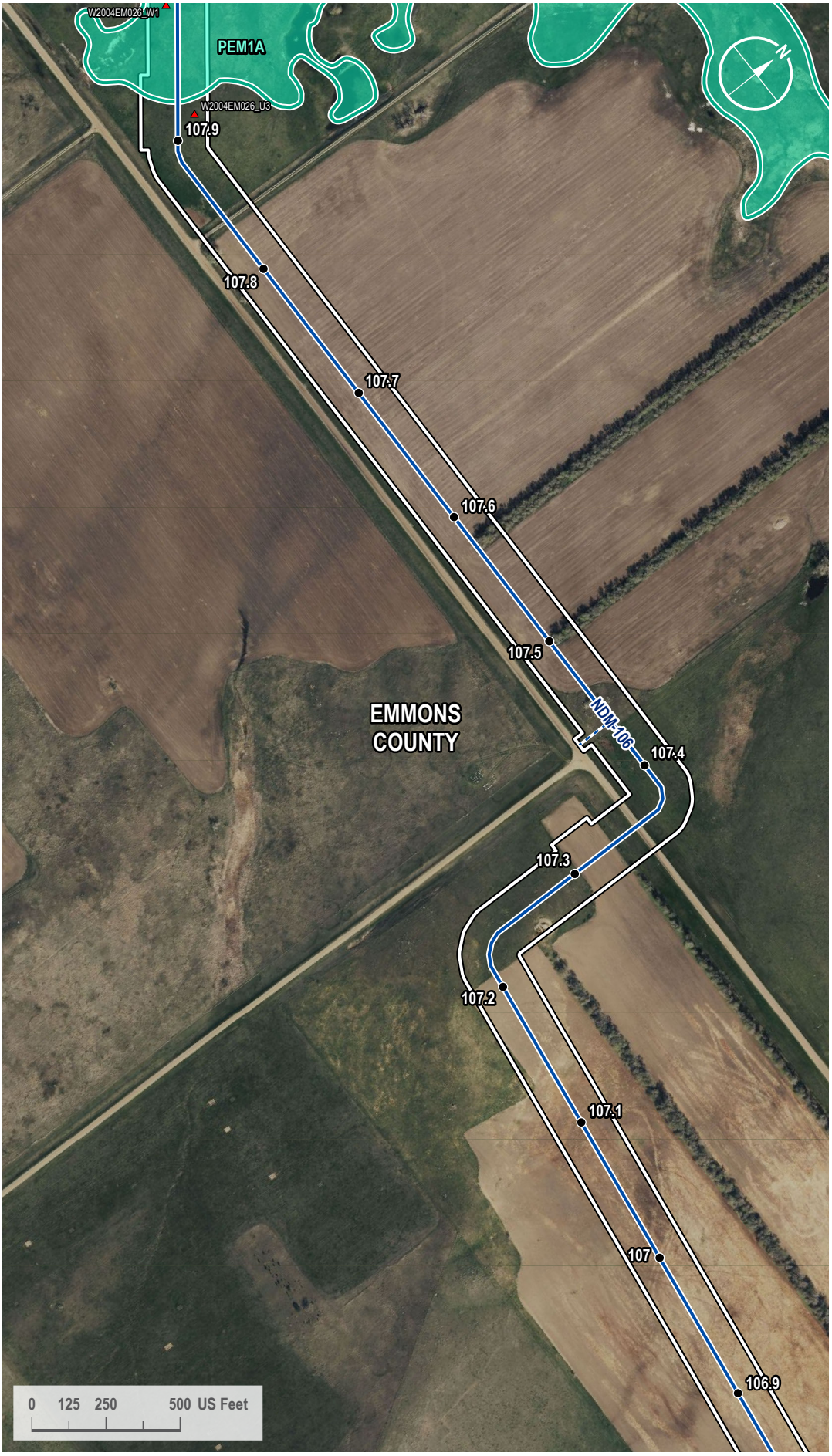

VICINITY MAP



LEGEND

- Milepost
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- Proposed Route
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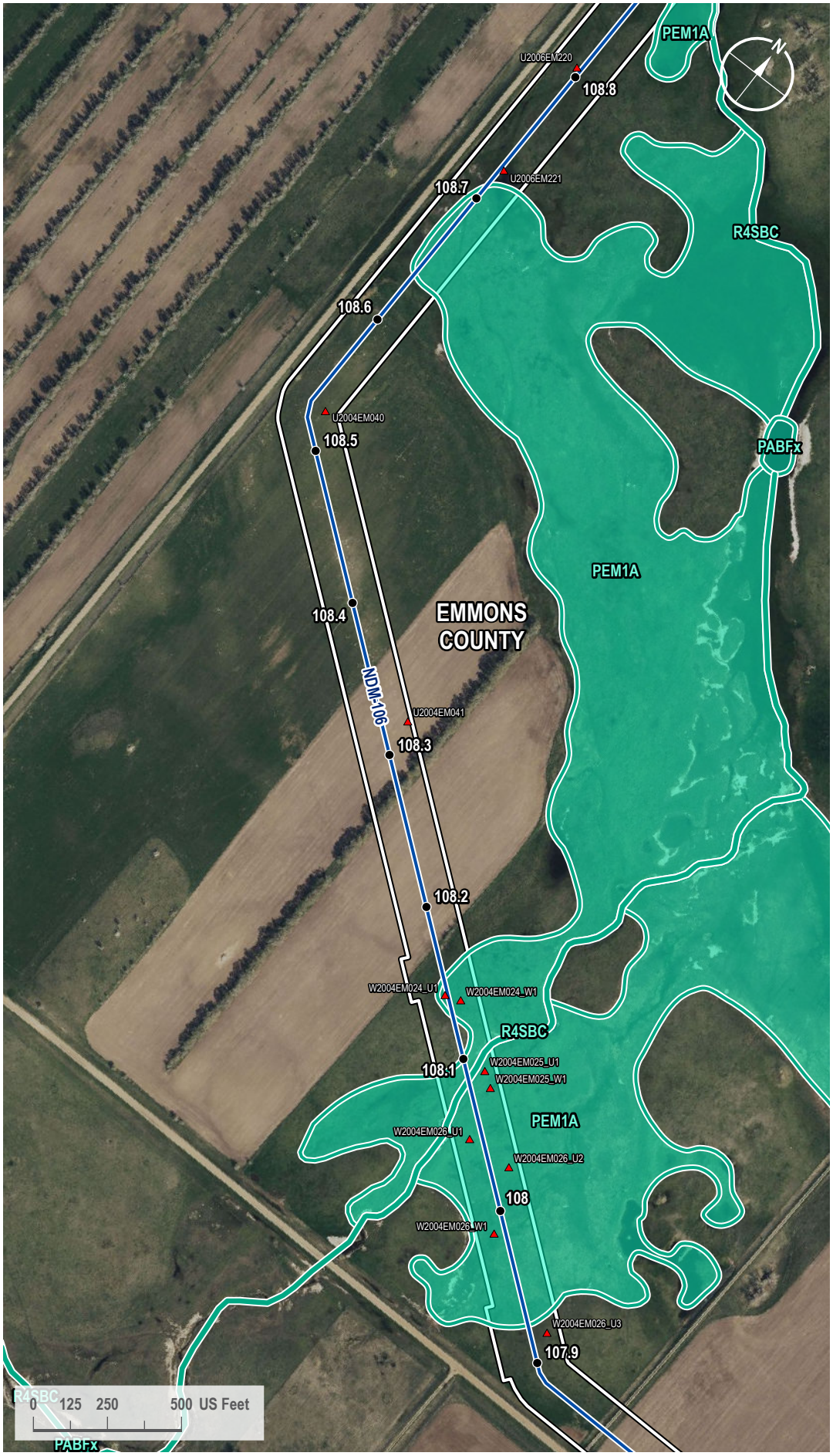

VICINITY MAP



LEGEND

- Milepost
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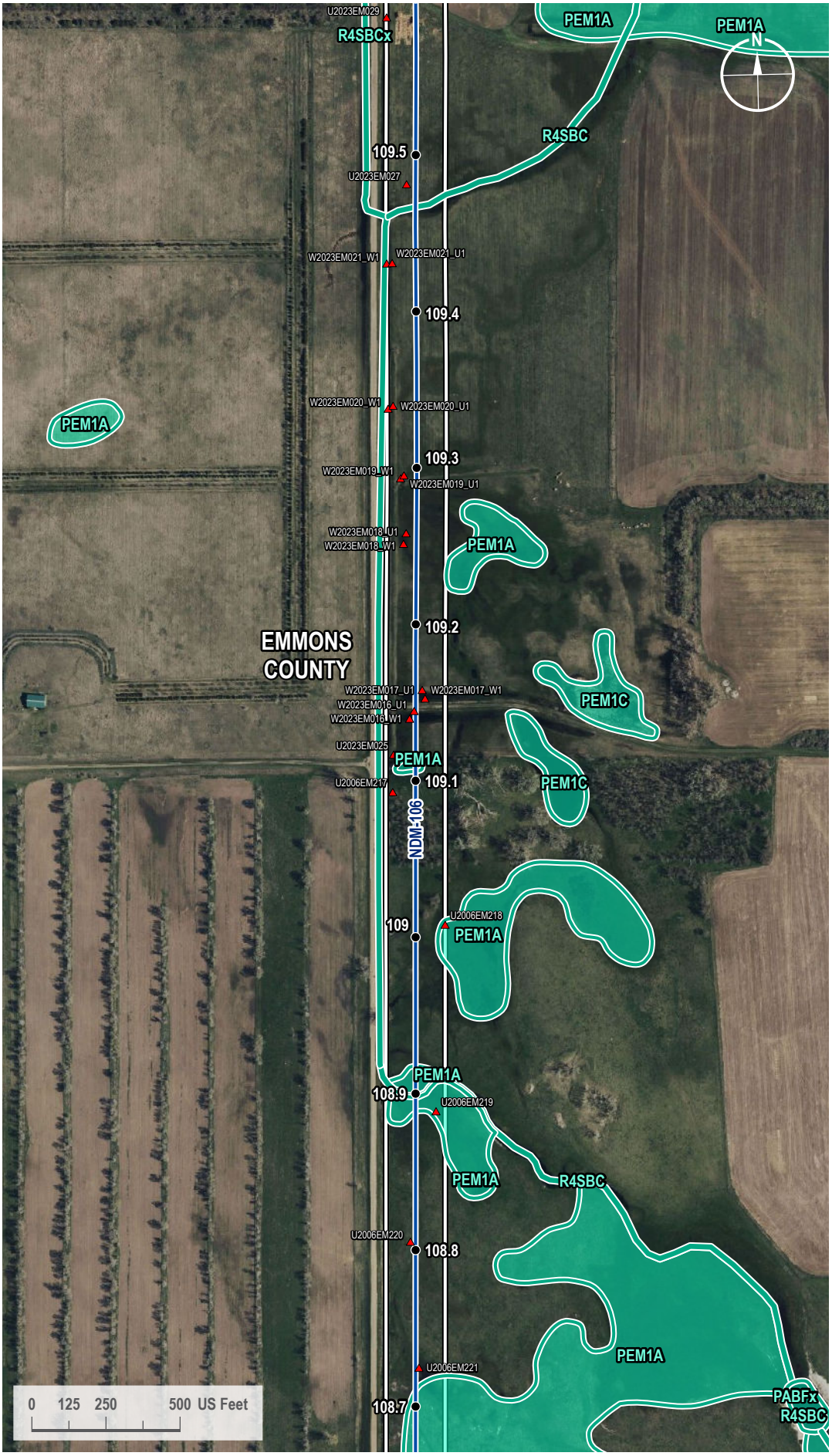

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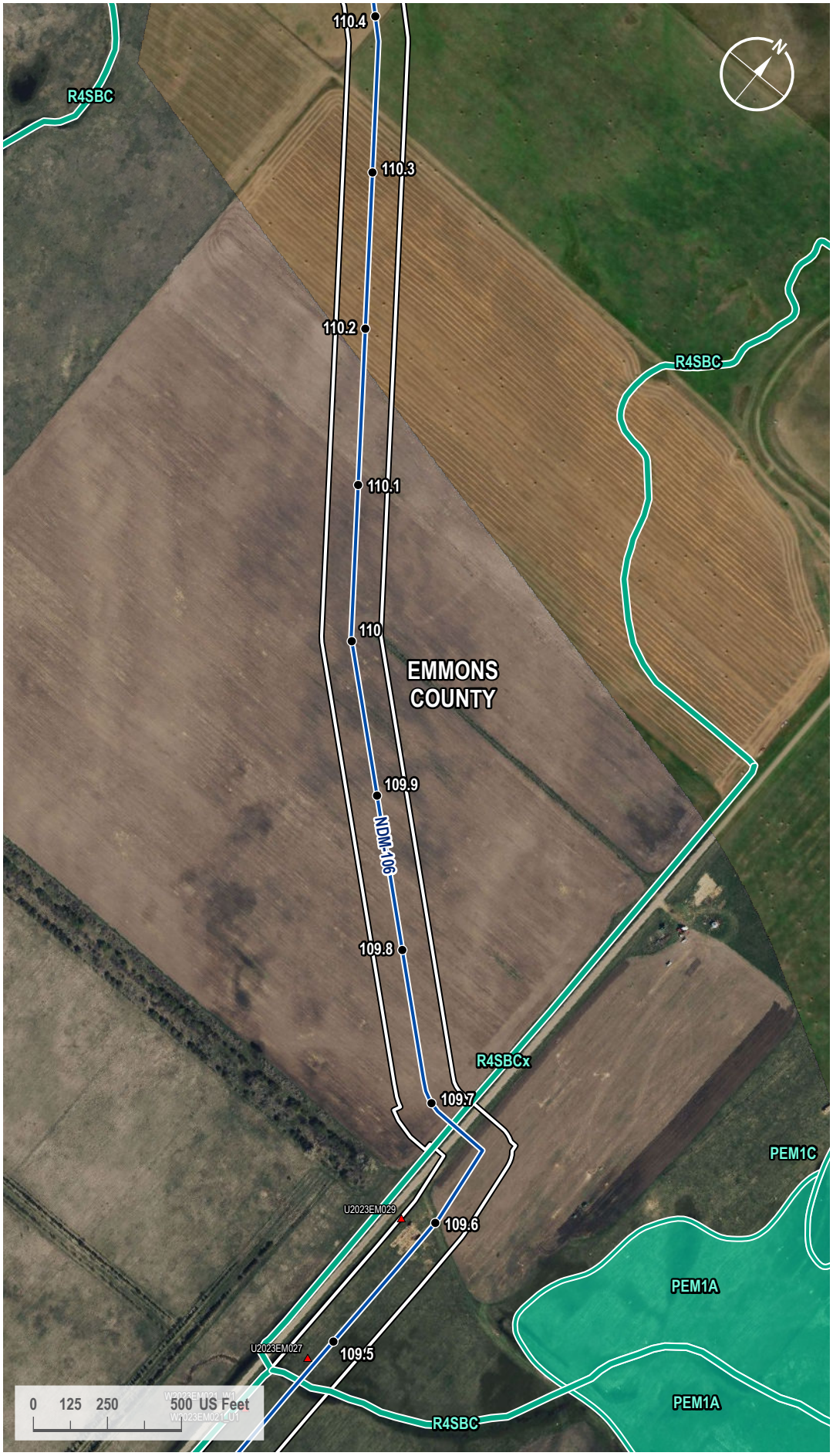

VICINITY MAP



LEGEND

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NWI MAP



VICINITY MAP



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NWI MAP



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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
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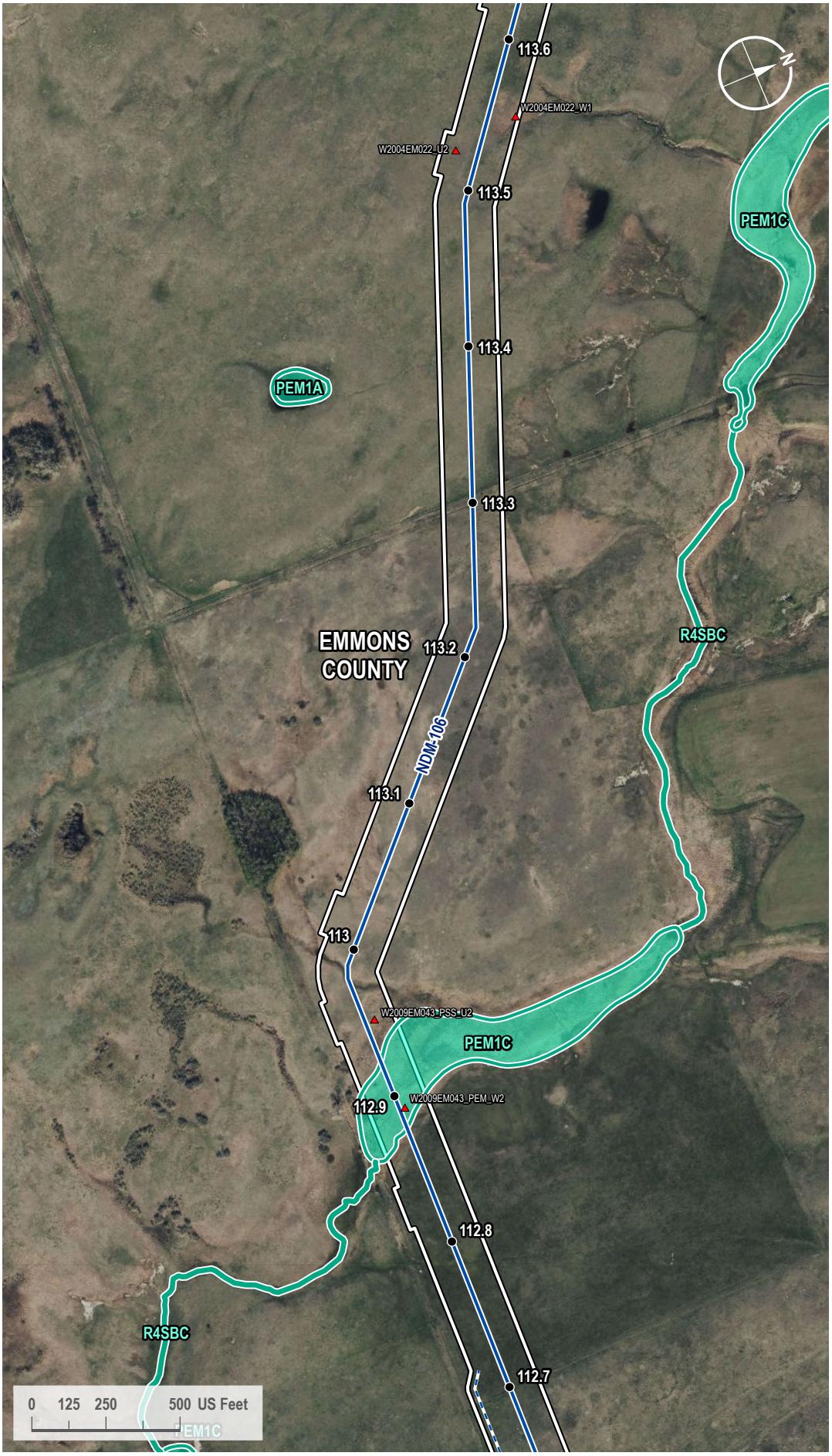

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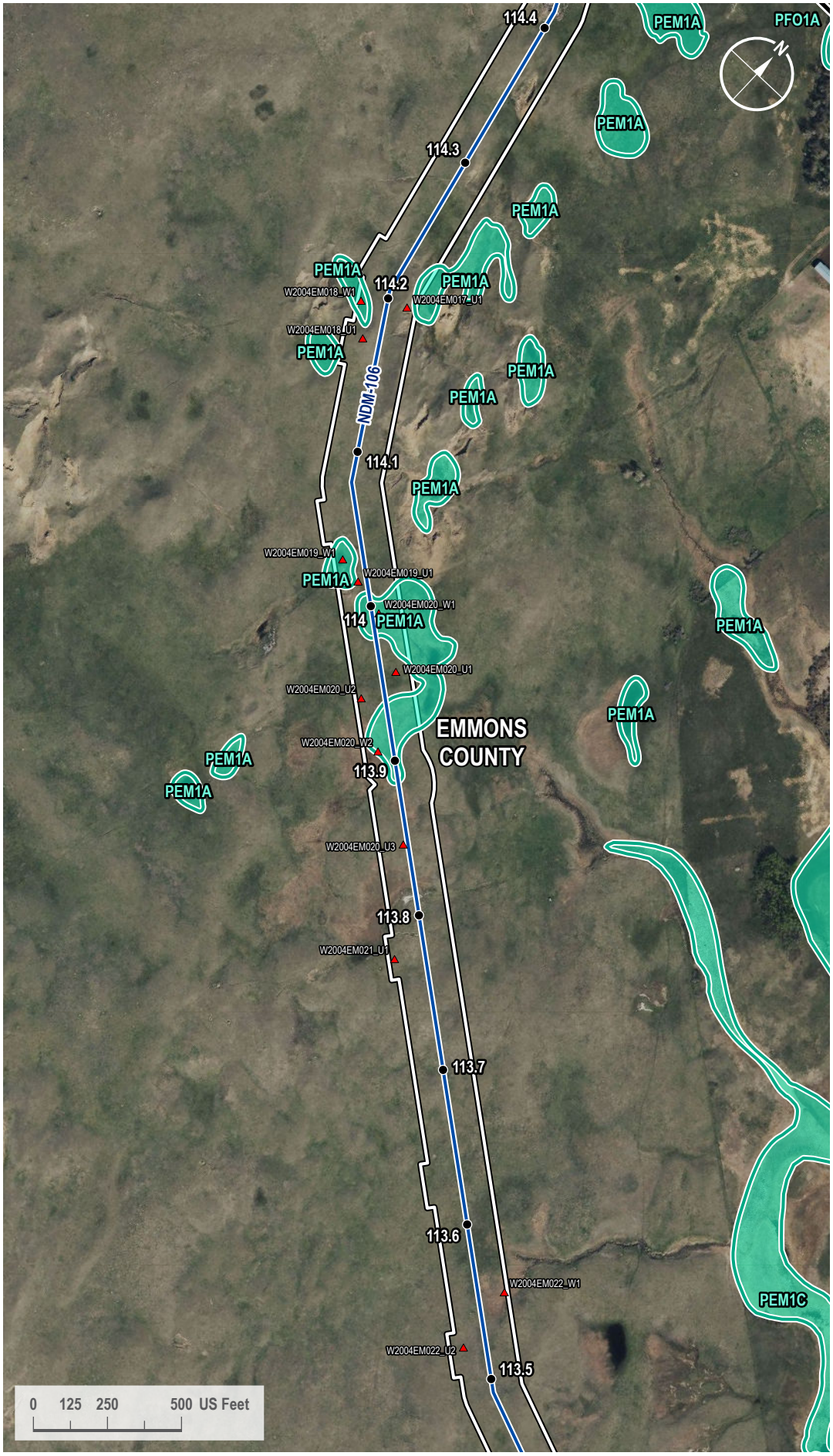

VICINITY MAP



LEGEND

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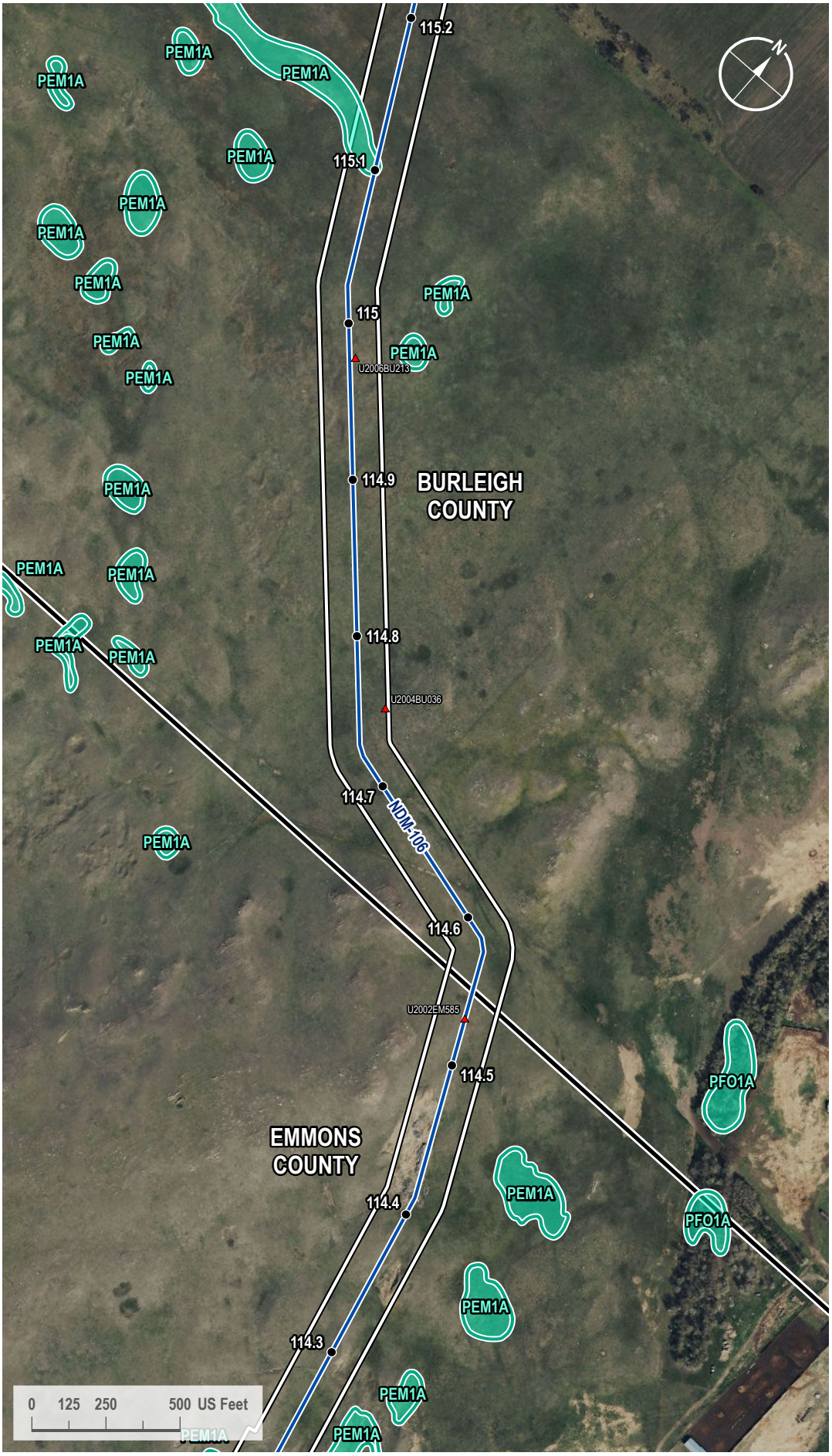

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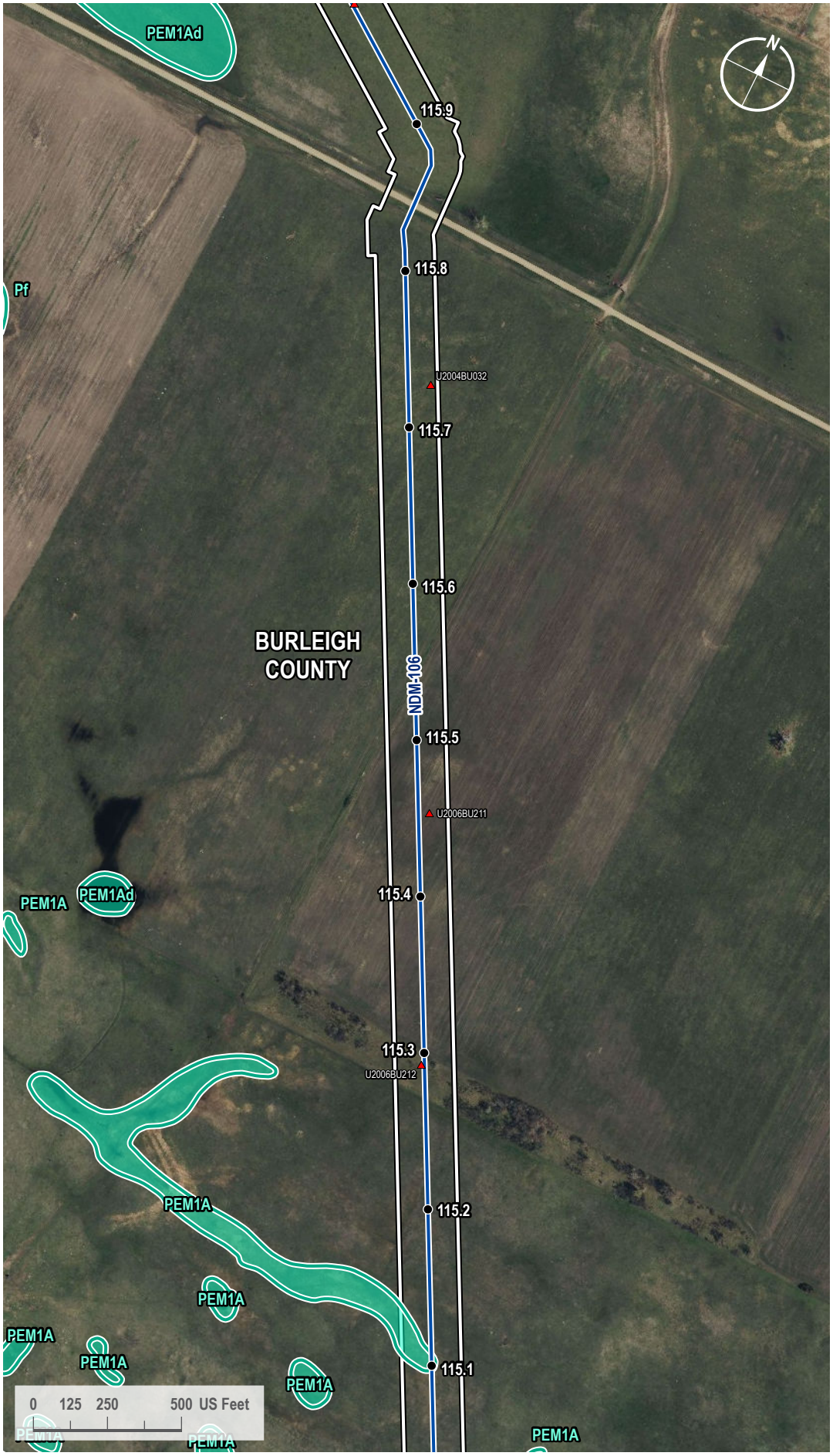

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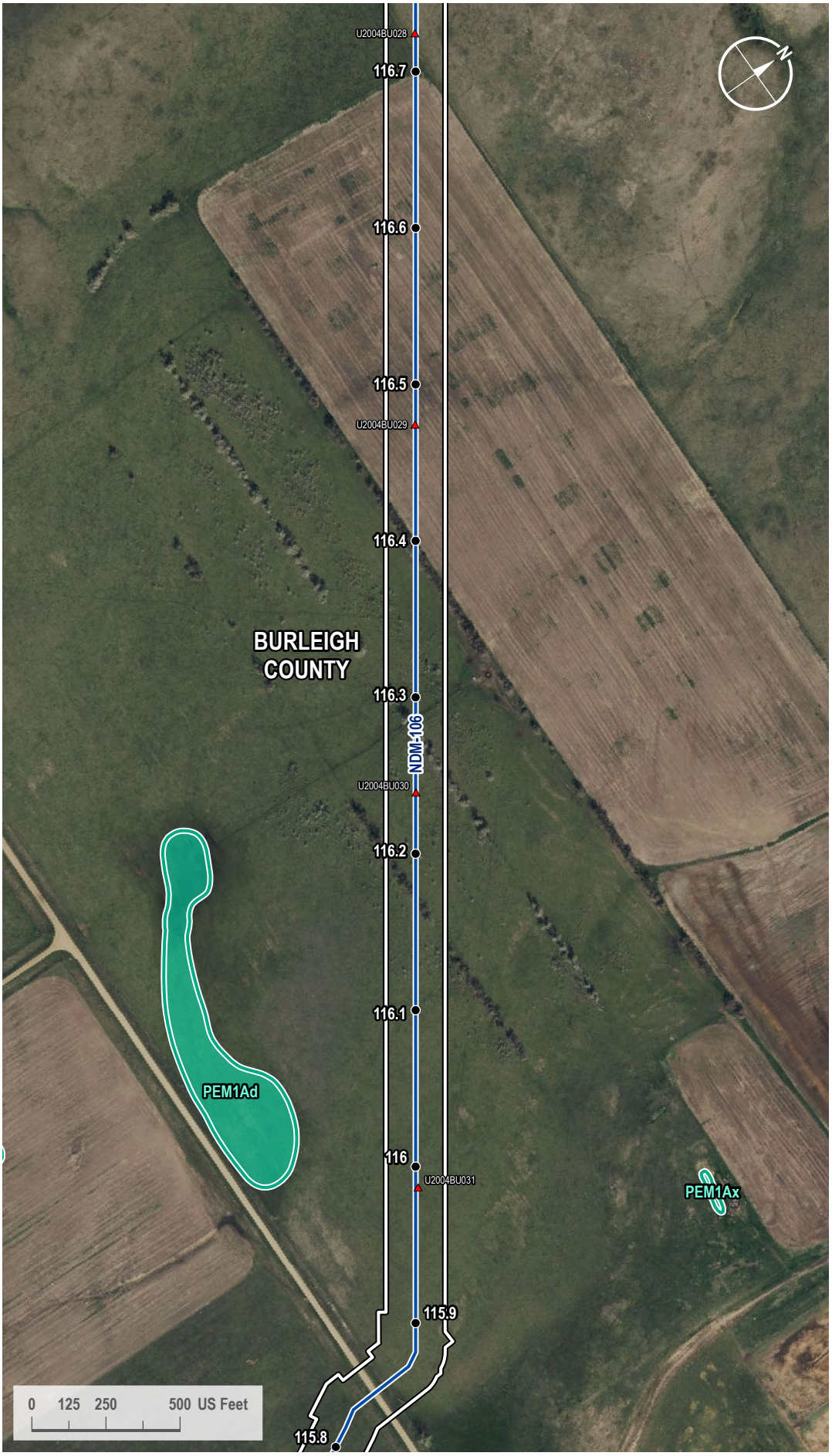

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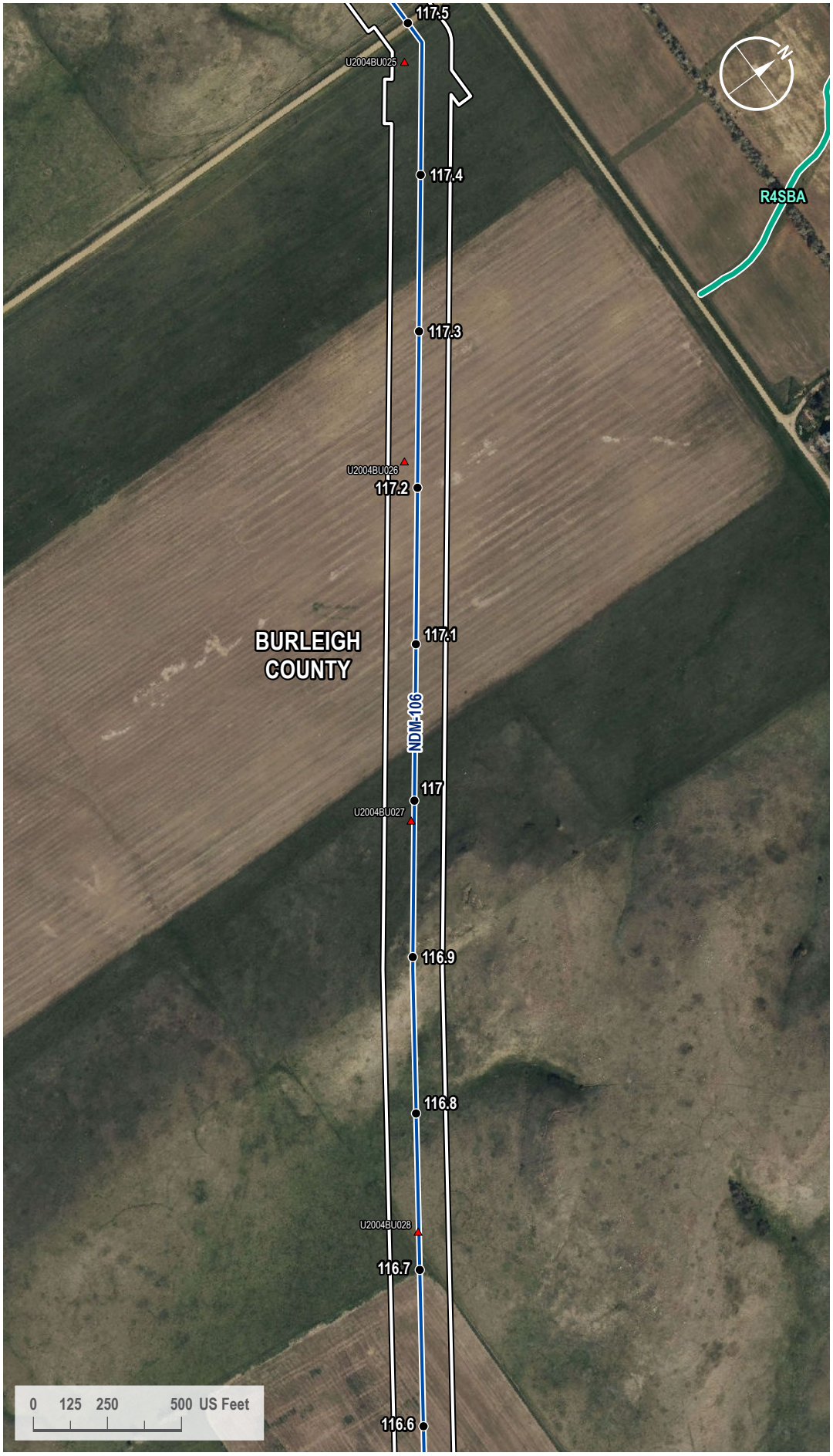
NWI MAP



VICINITY MAP



LEGEND

- Milepost
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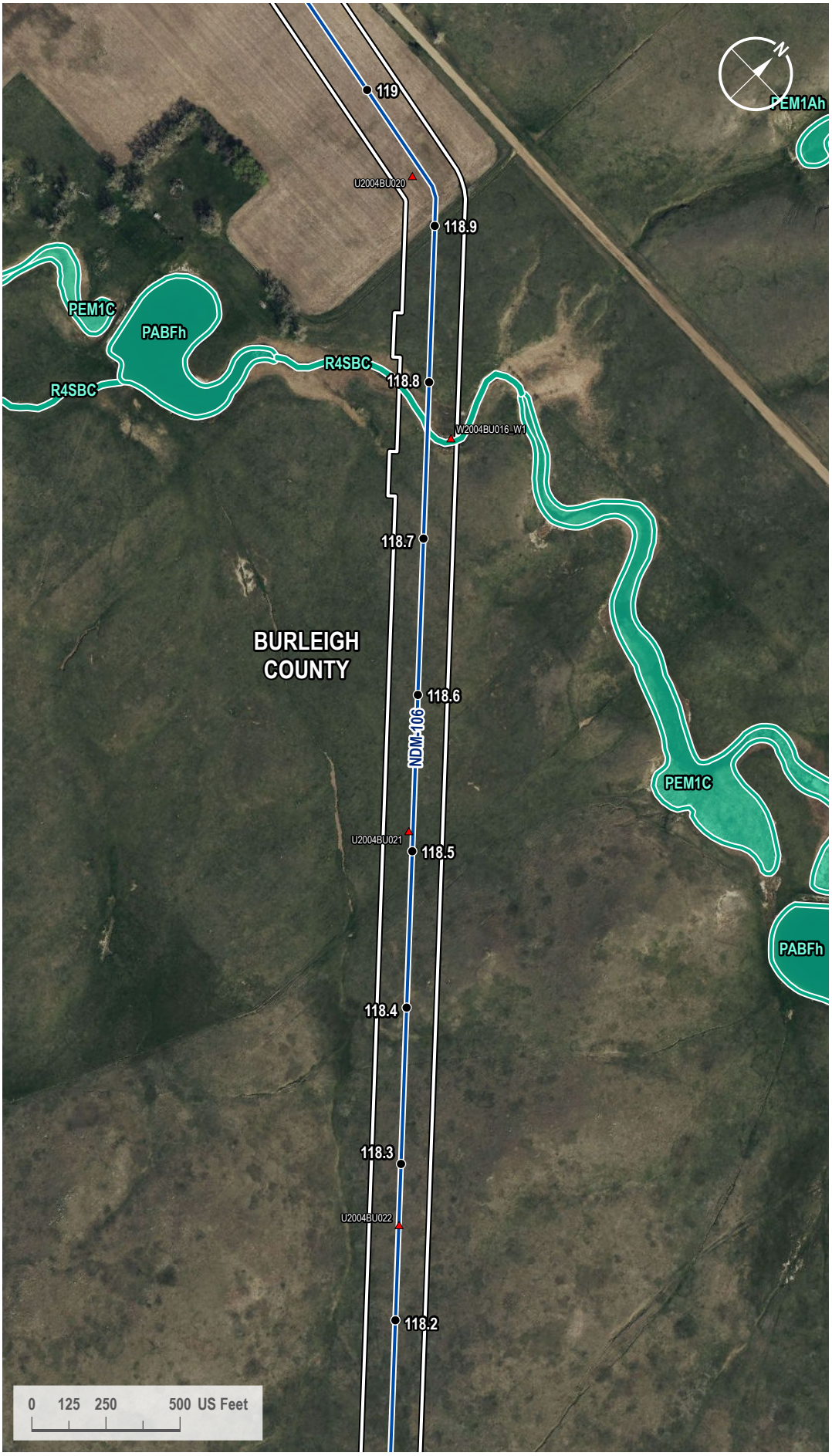

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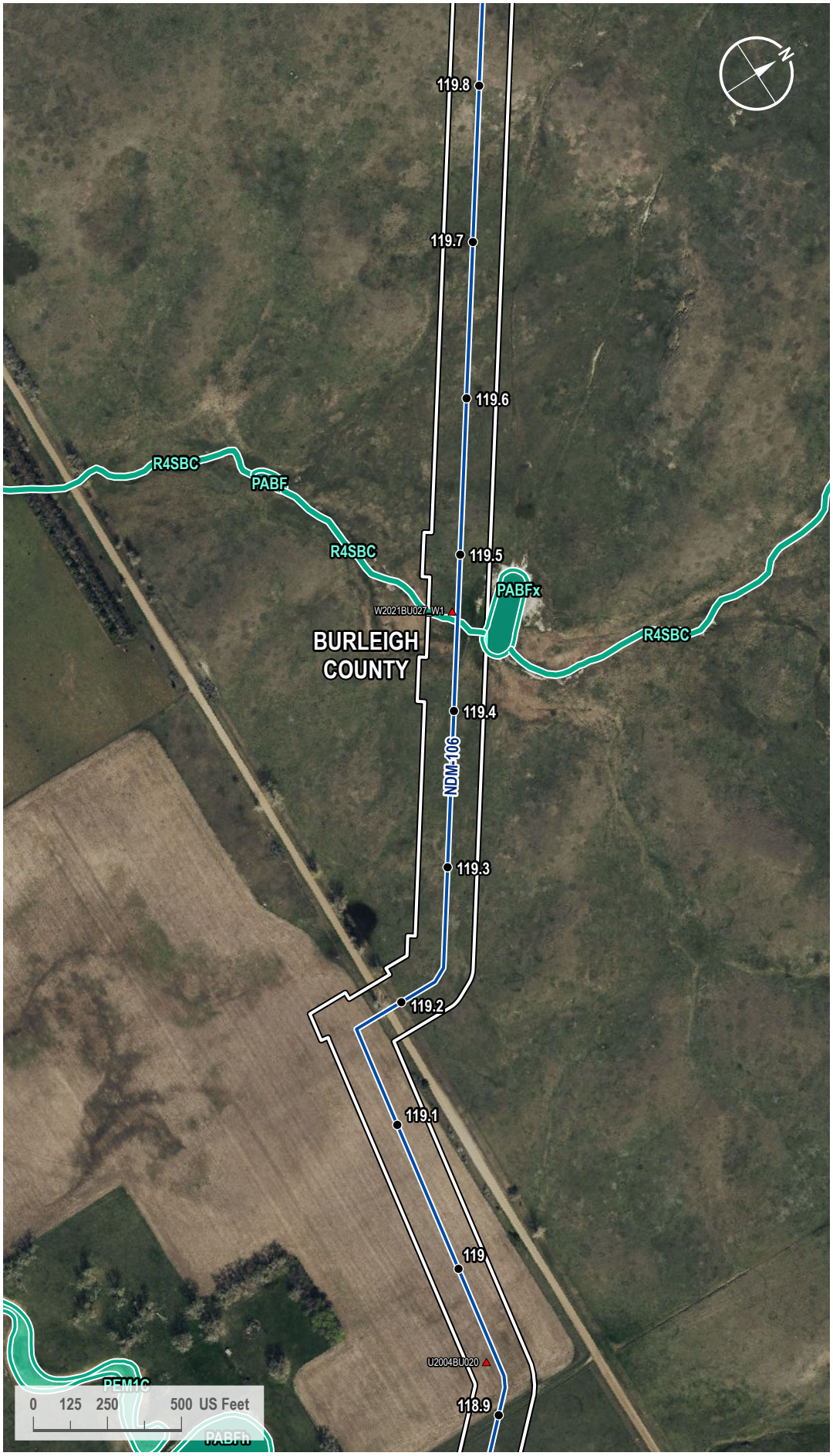

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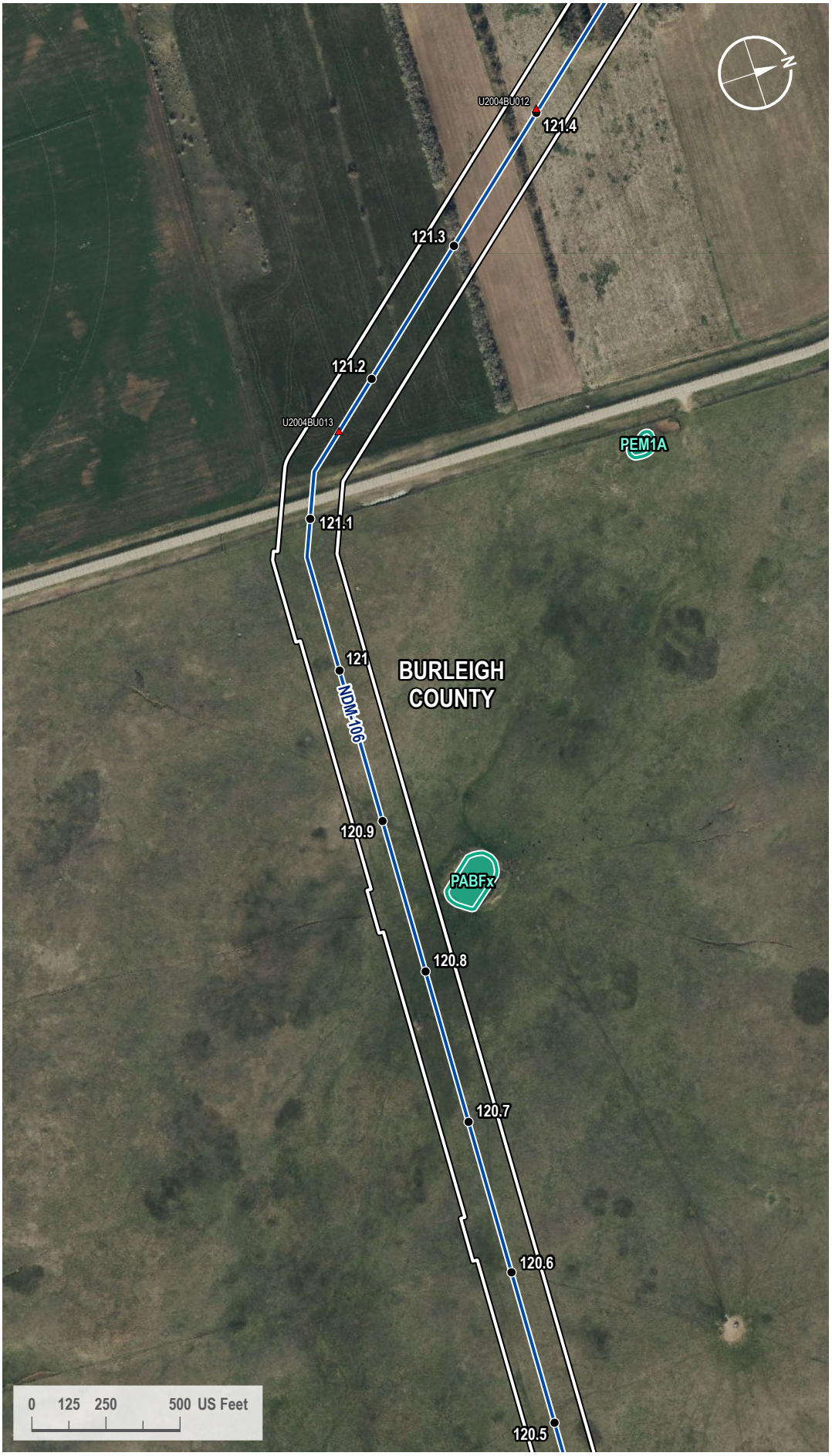

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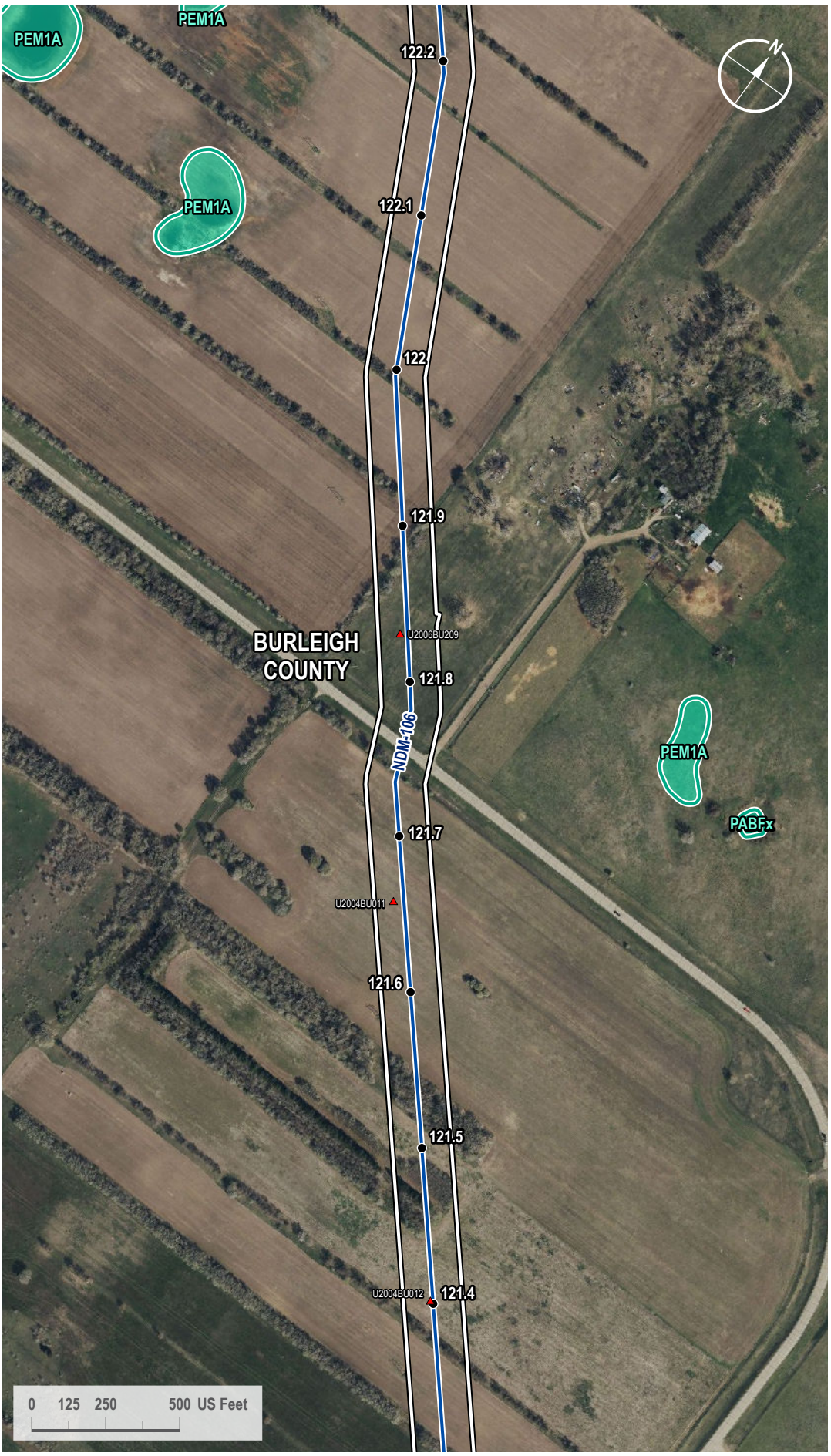

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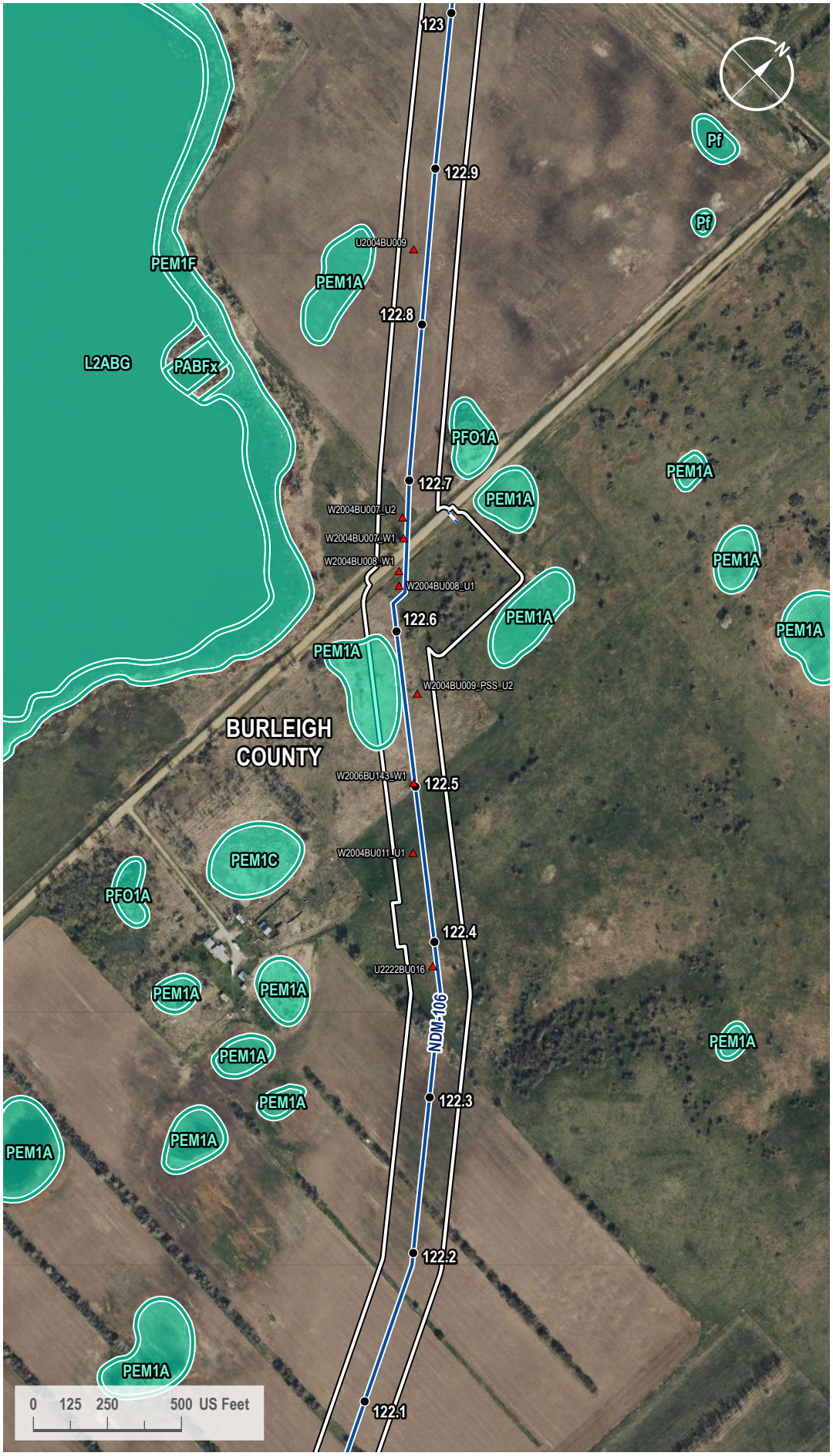

VICINITY MAP



LEGEND

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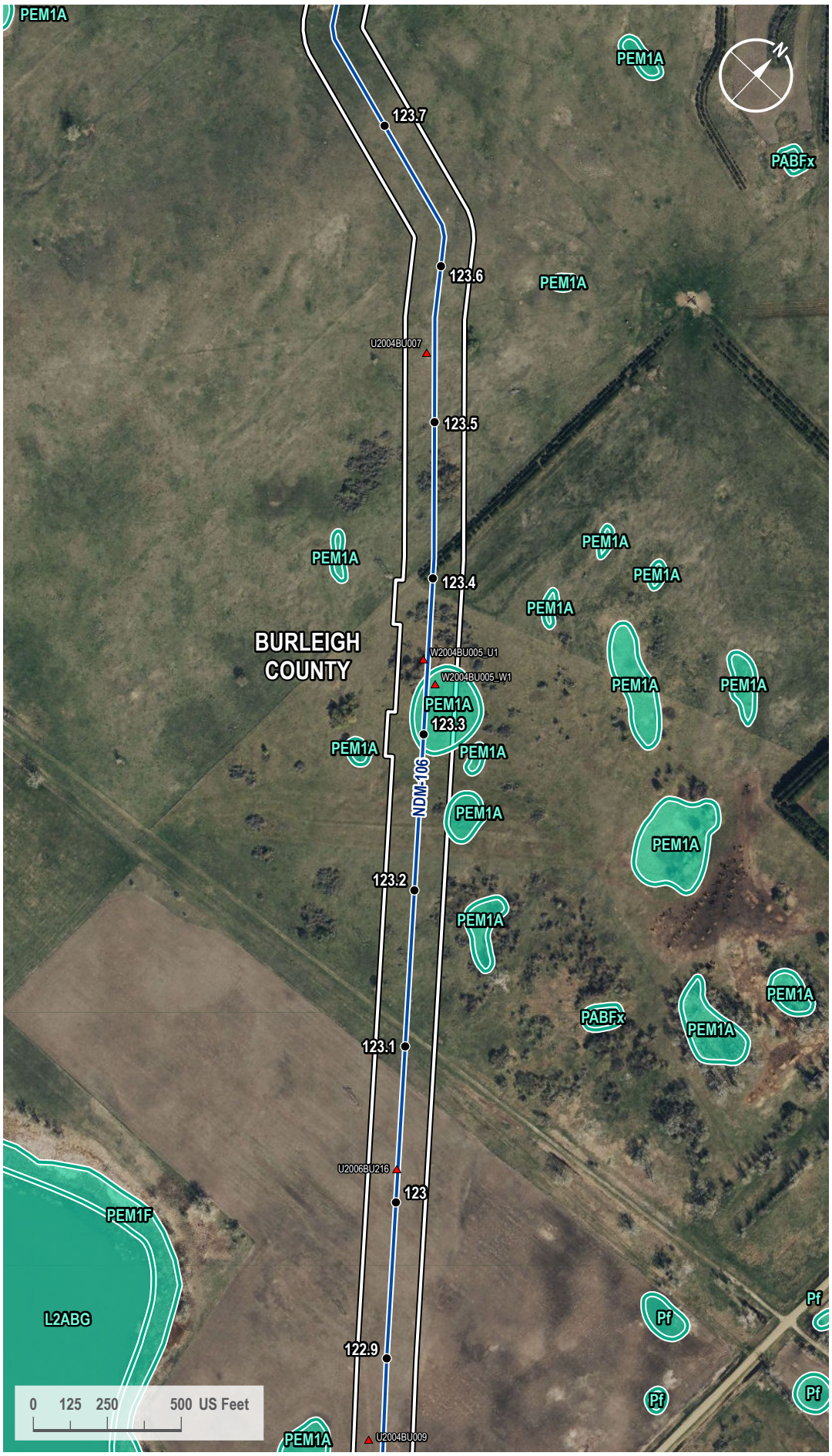

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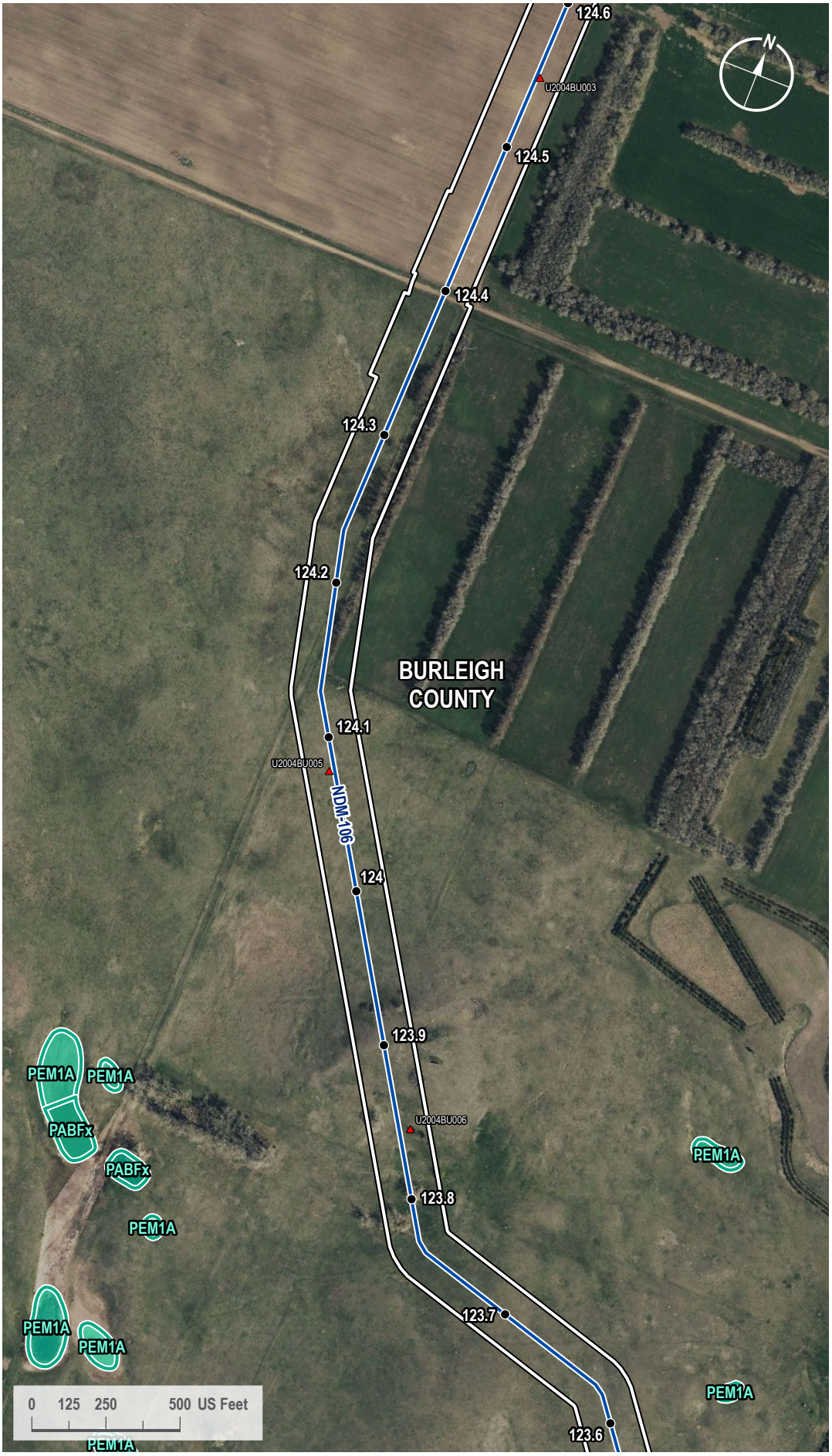

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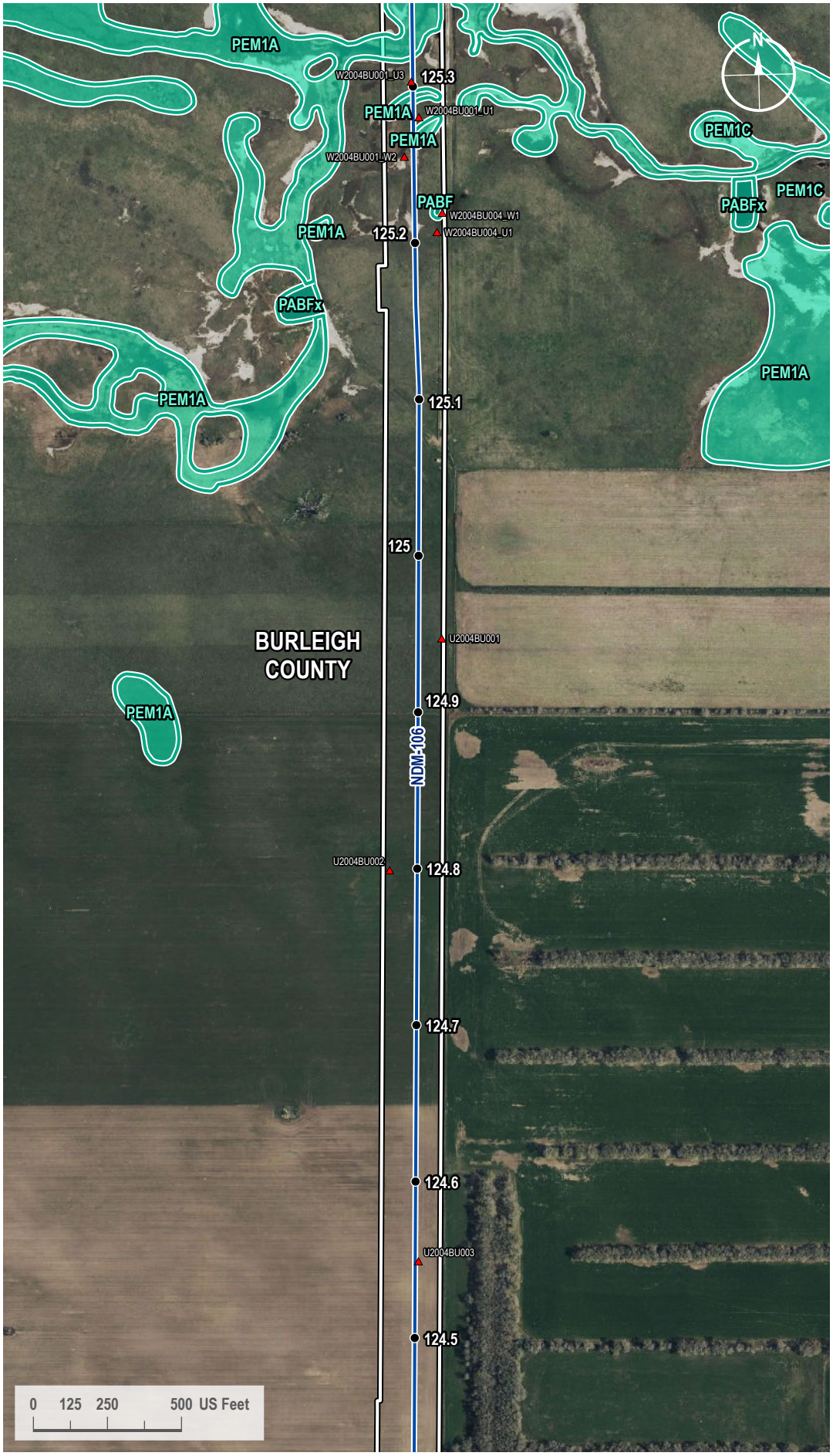

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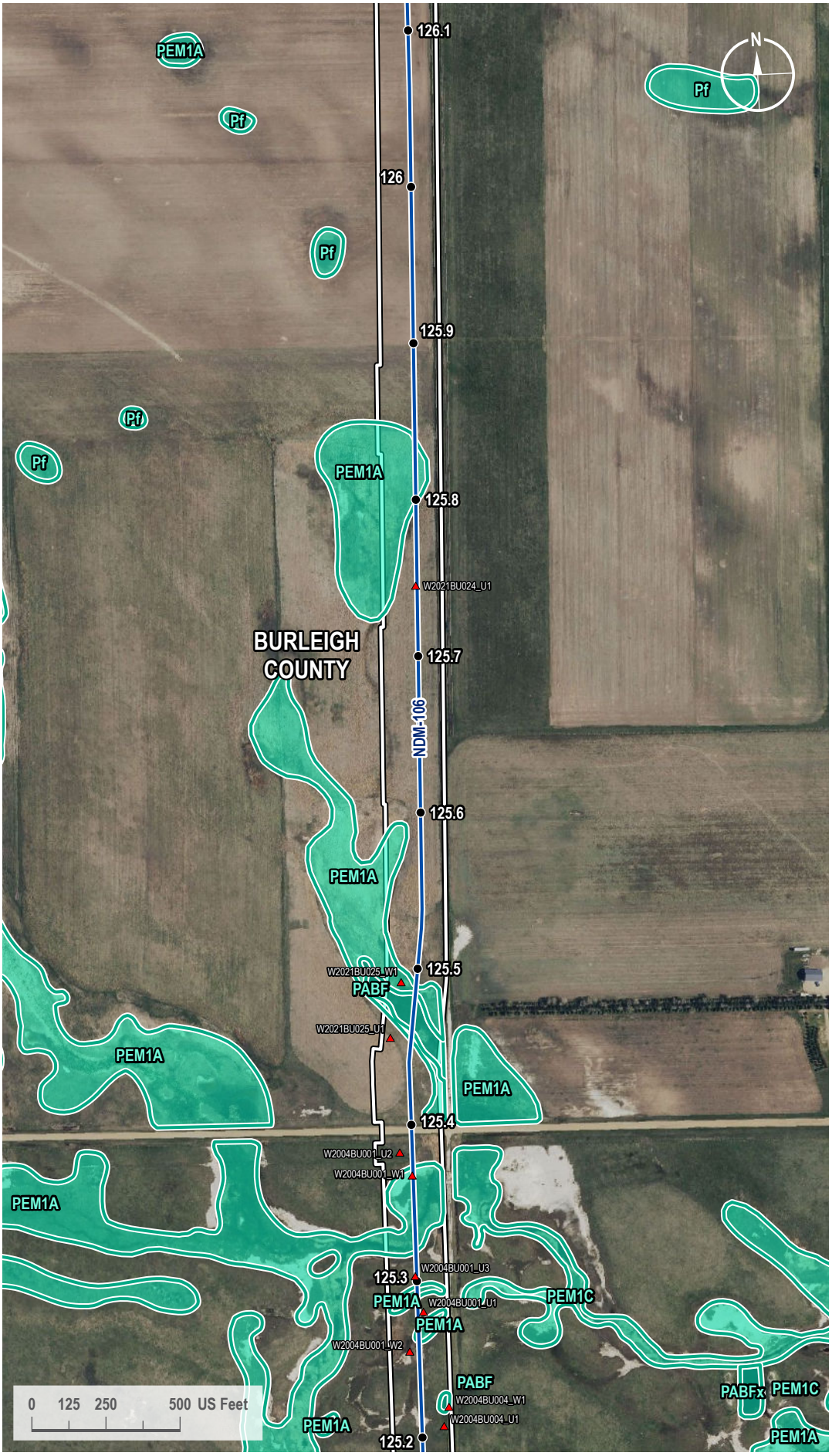

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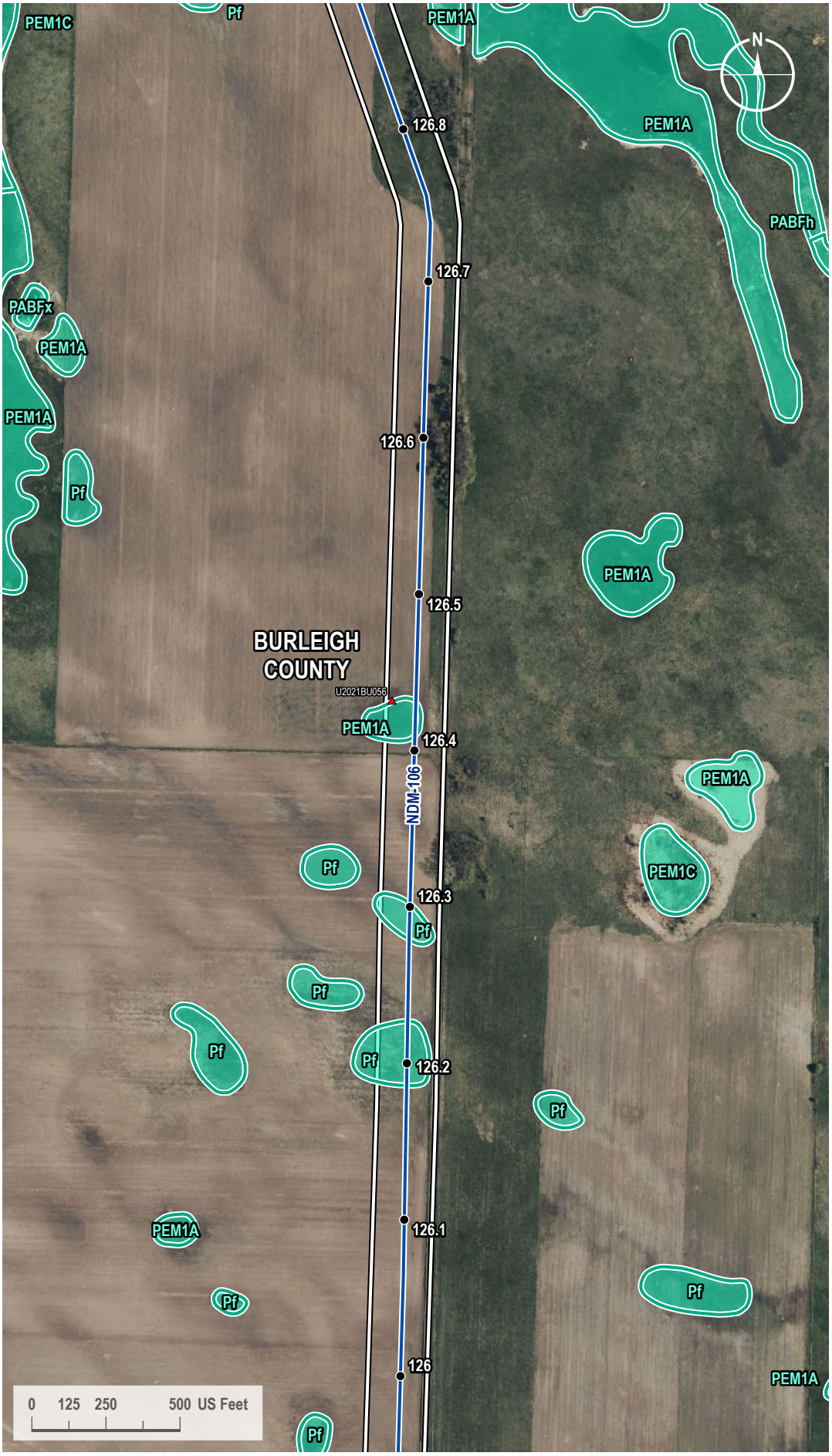

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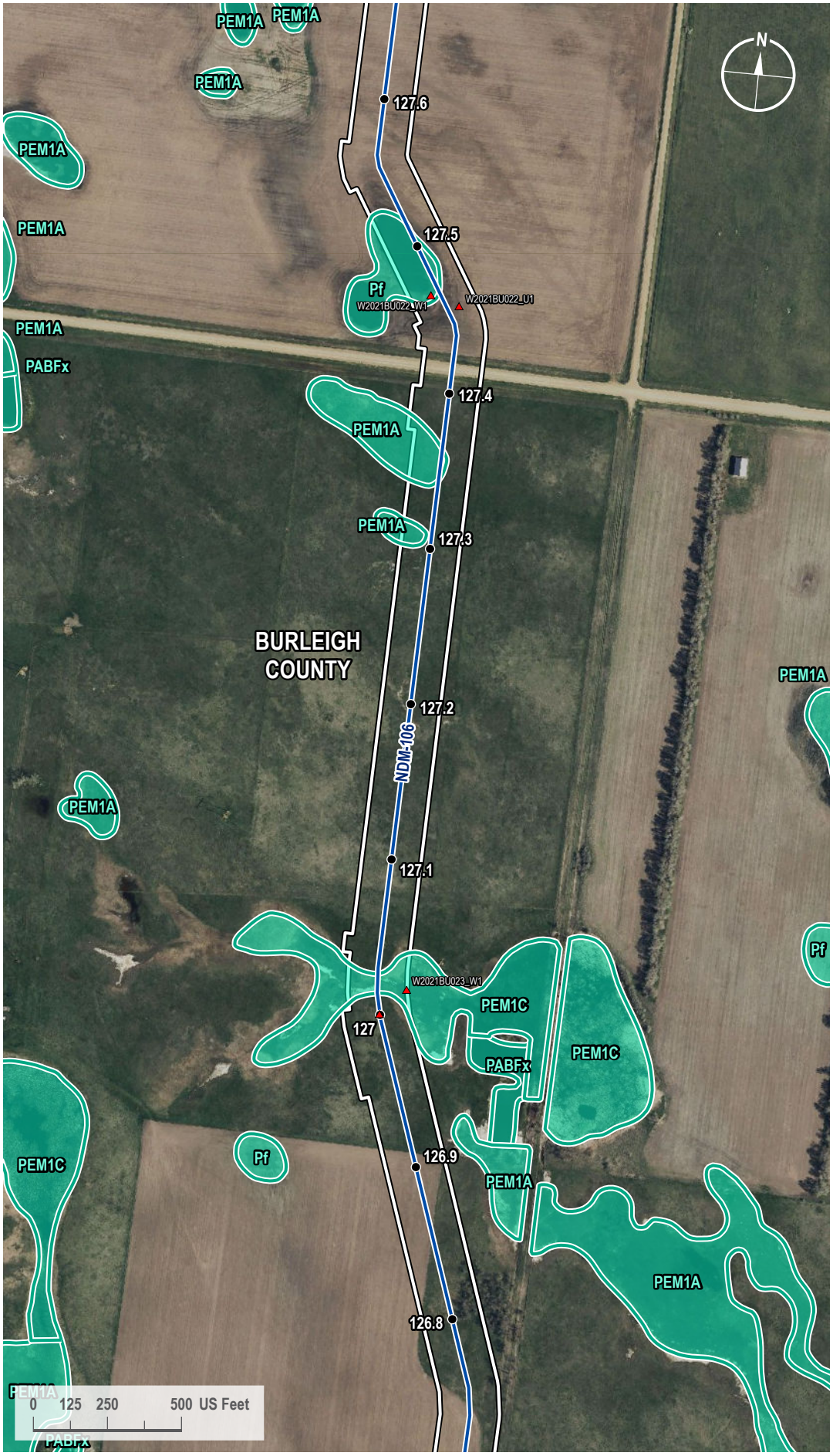

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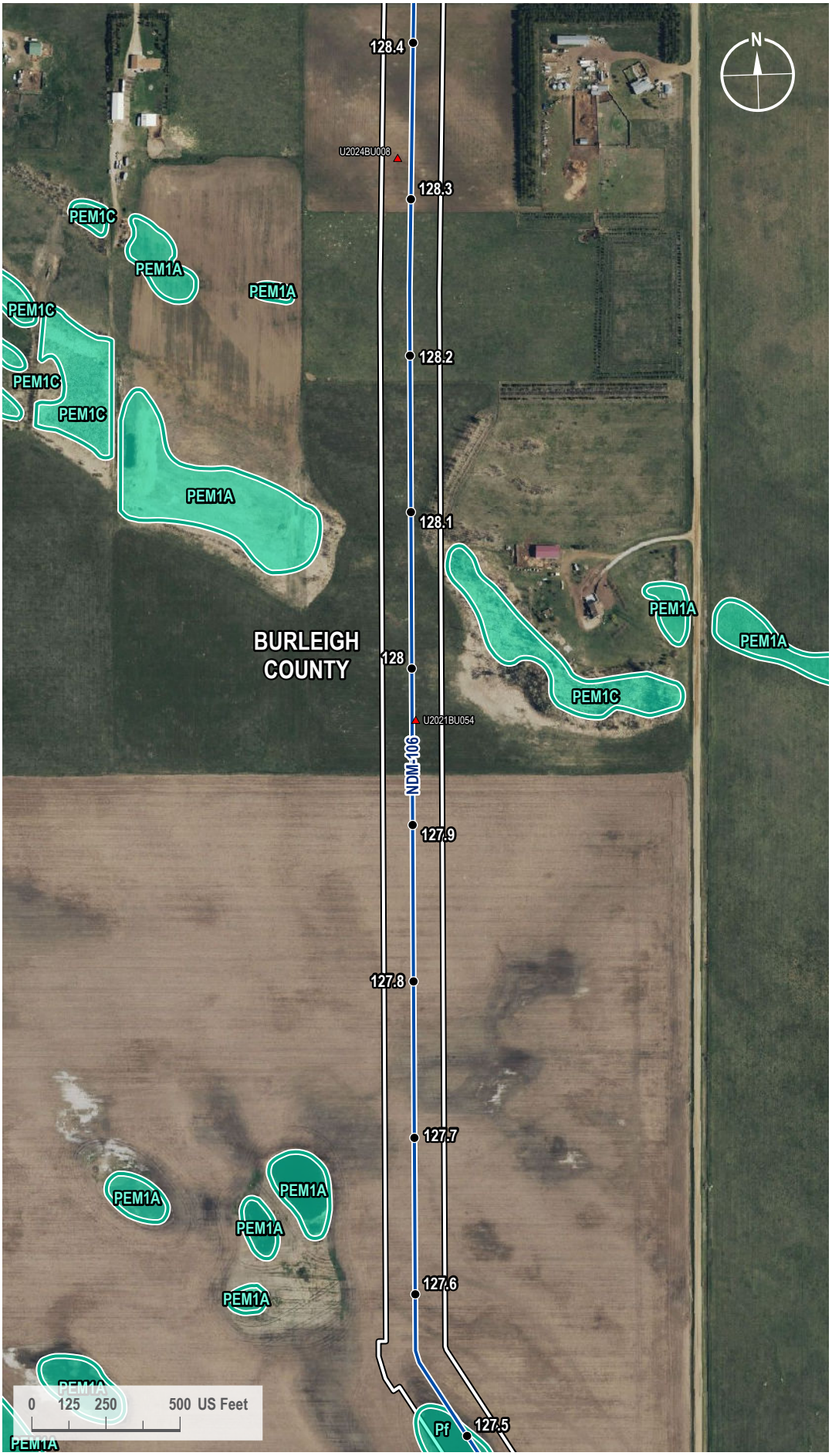

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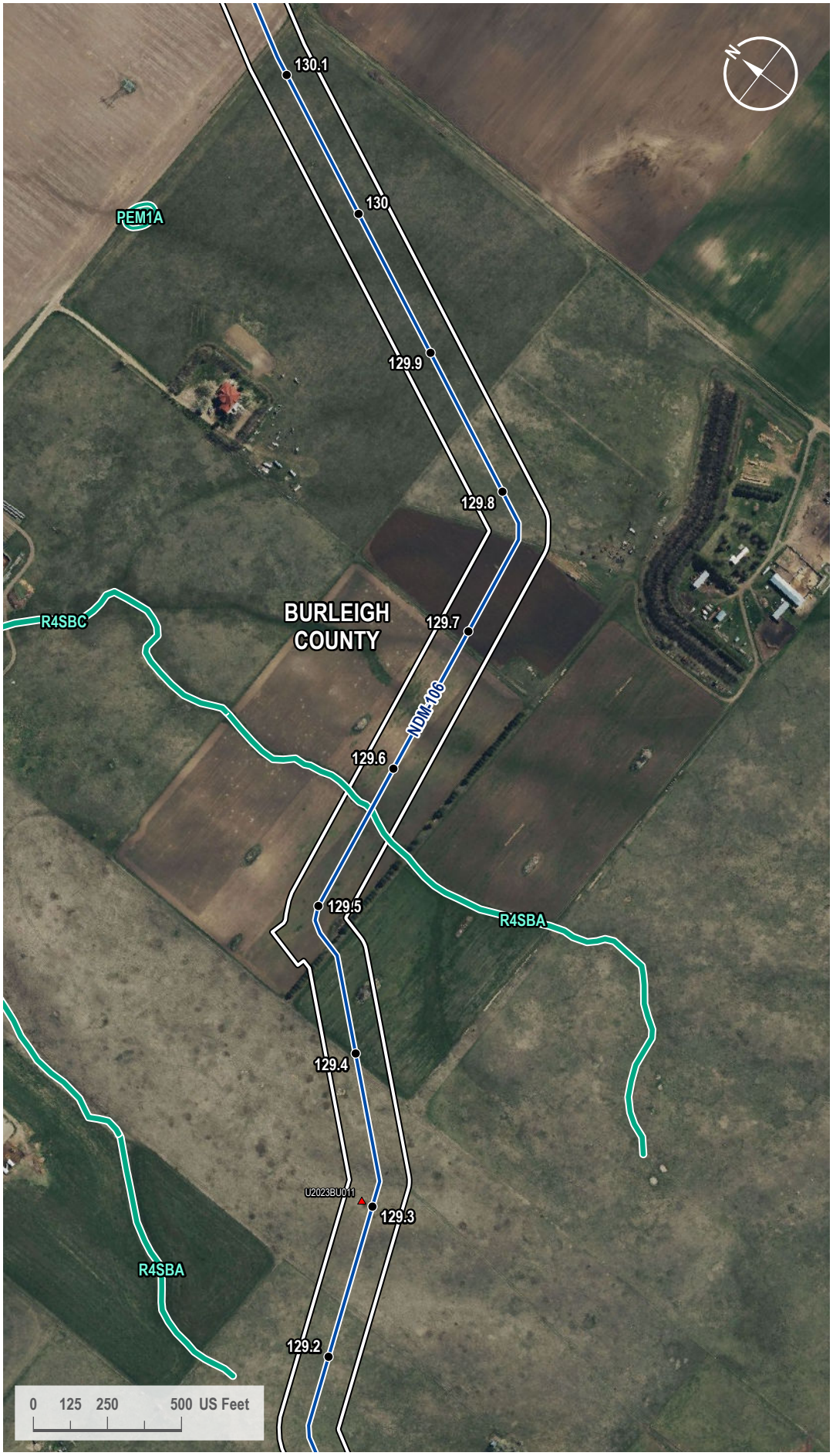

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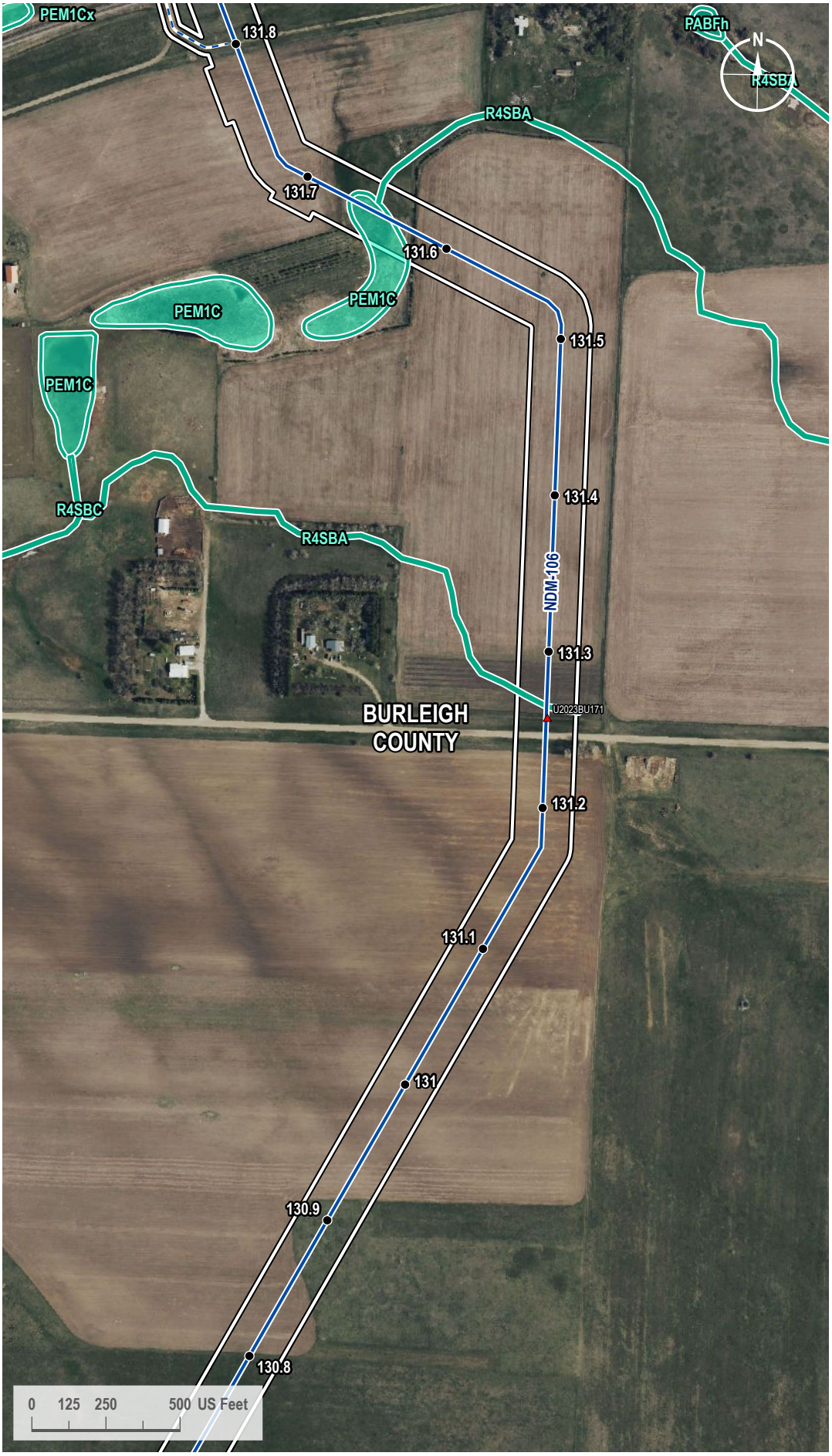

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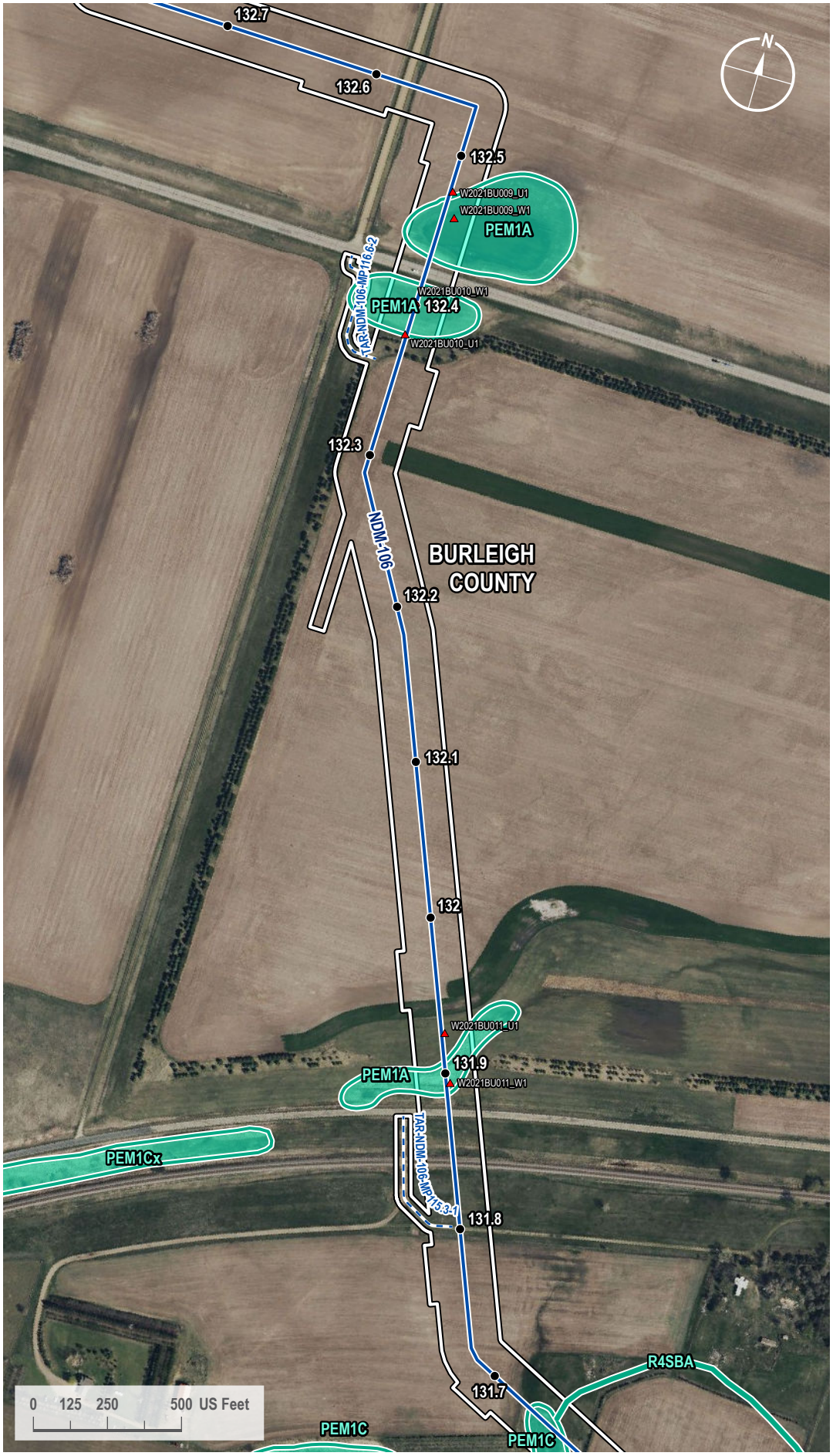

VICINITY MAP



LEGEND

- Milepost
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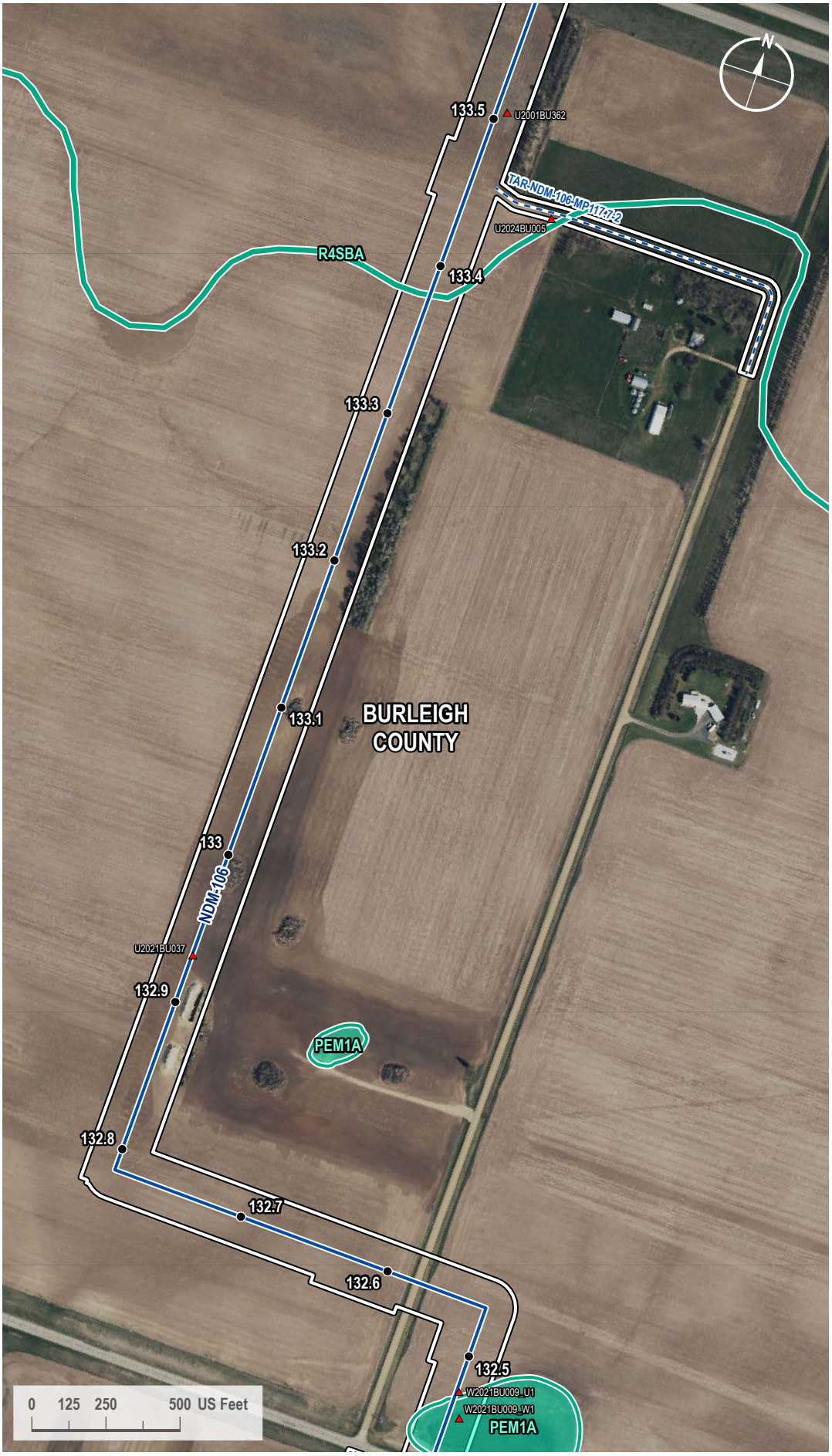

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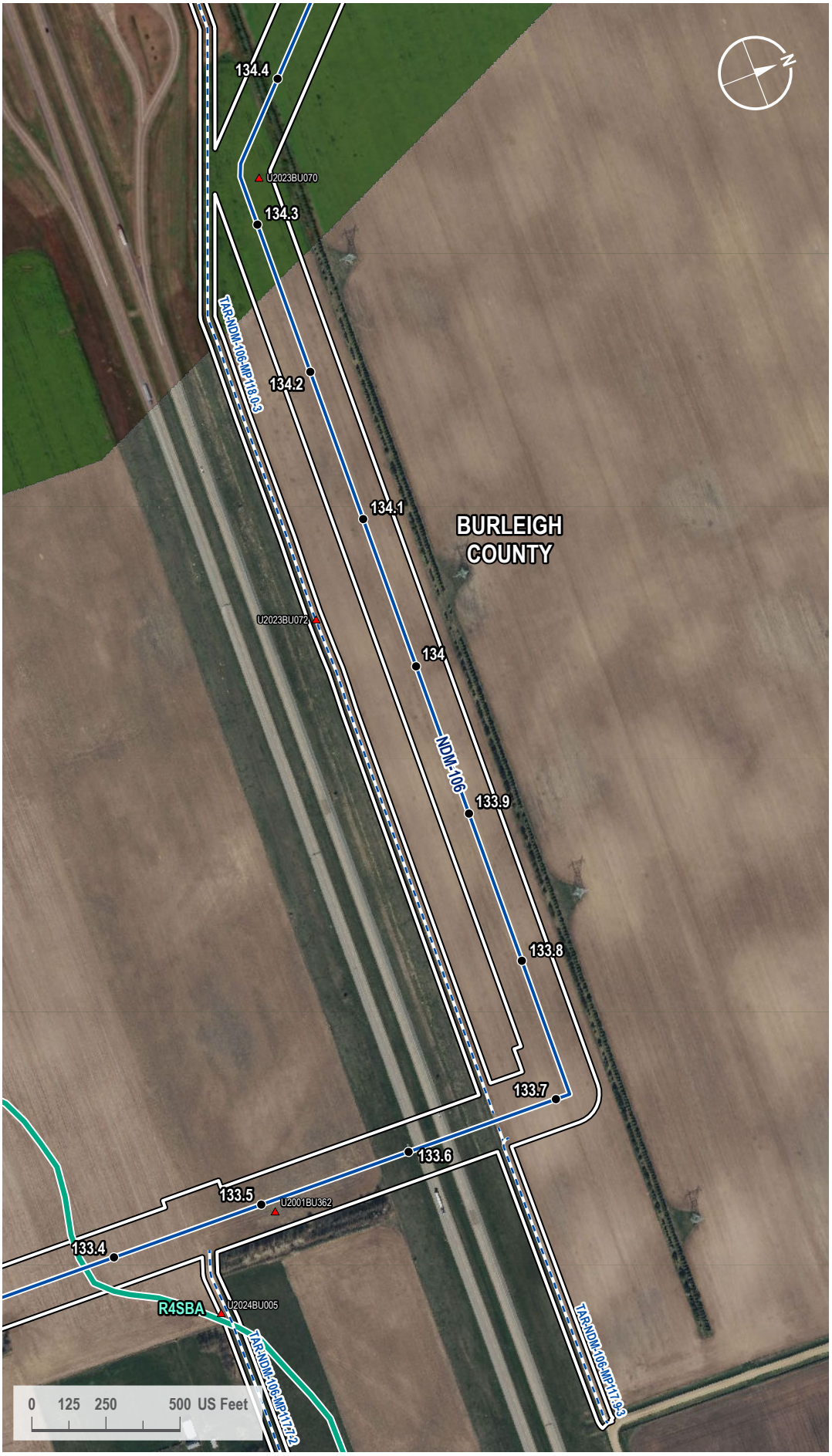

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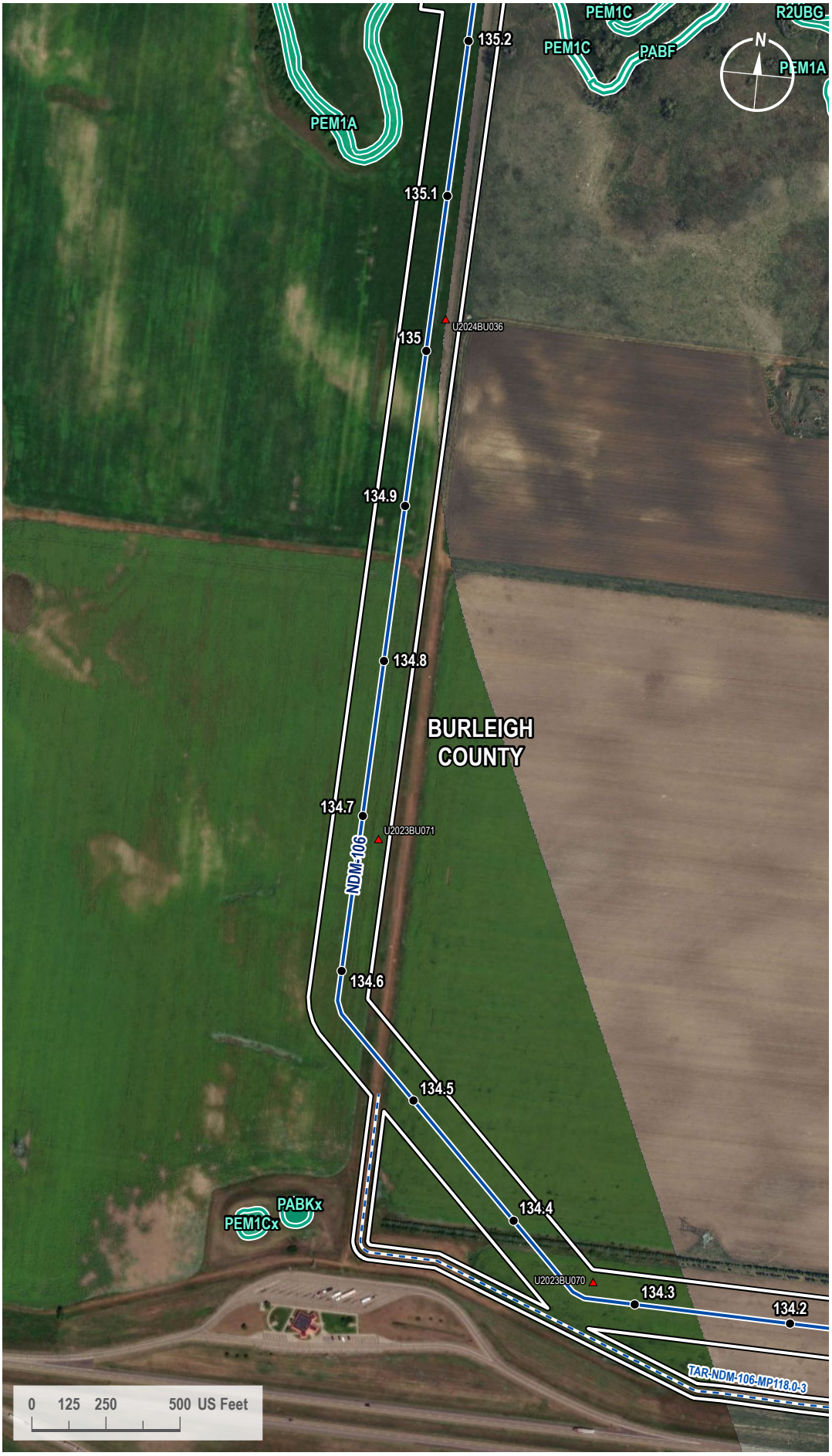

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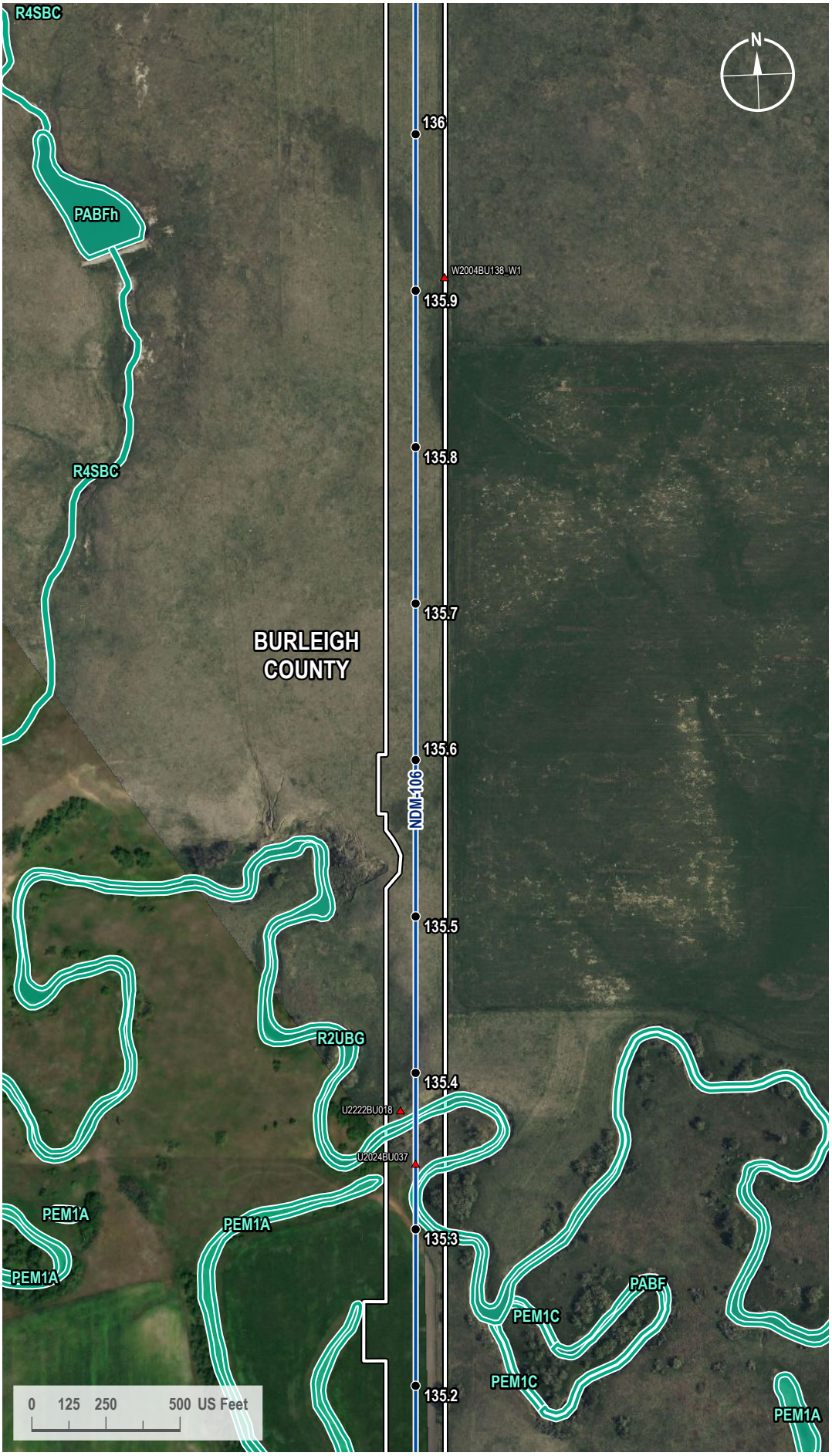

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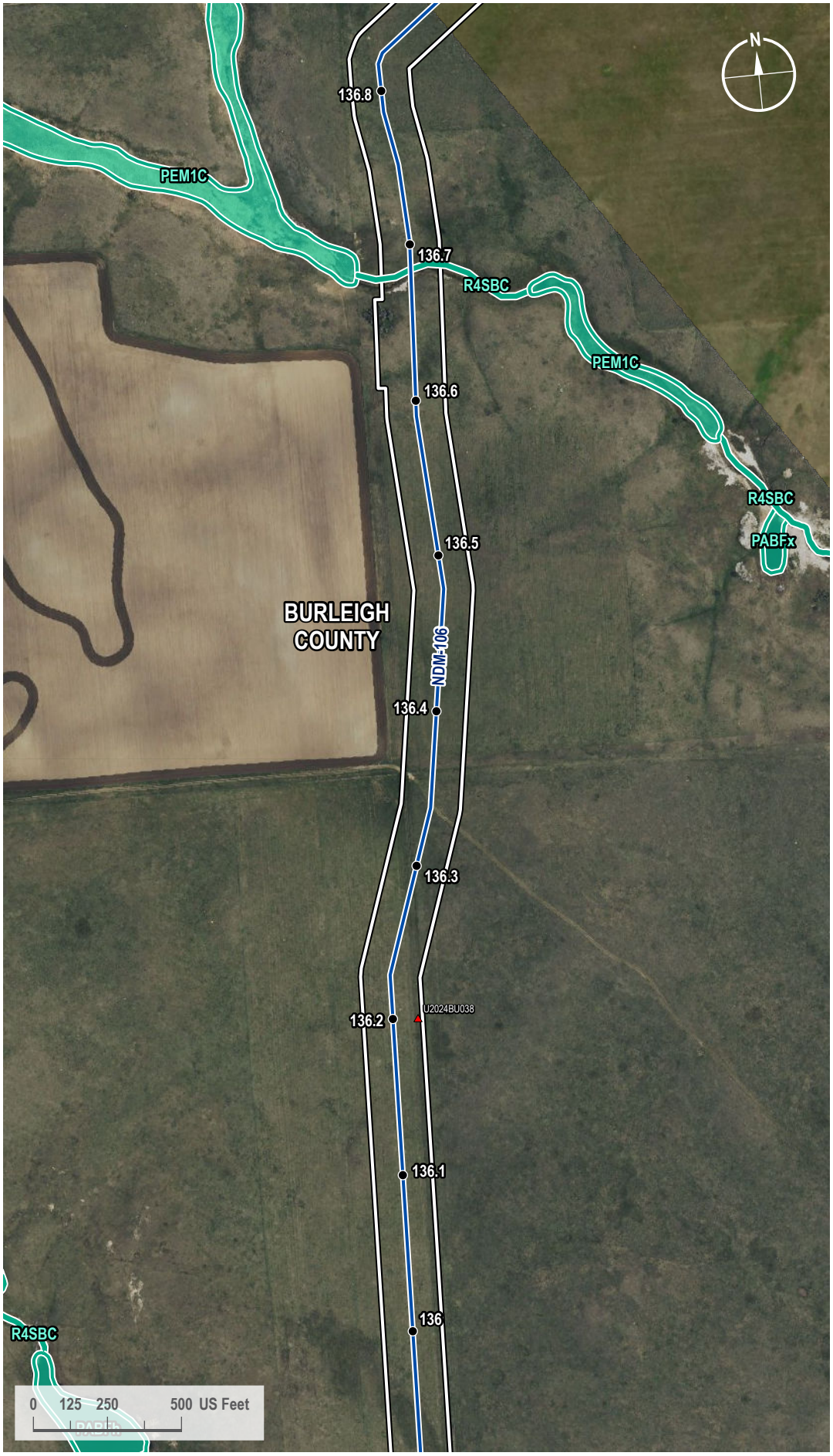

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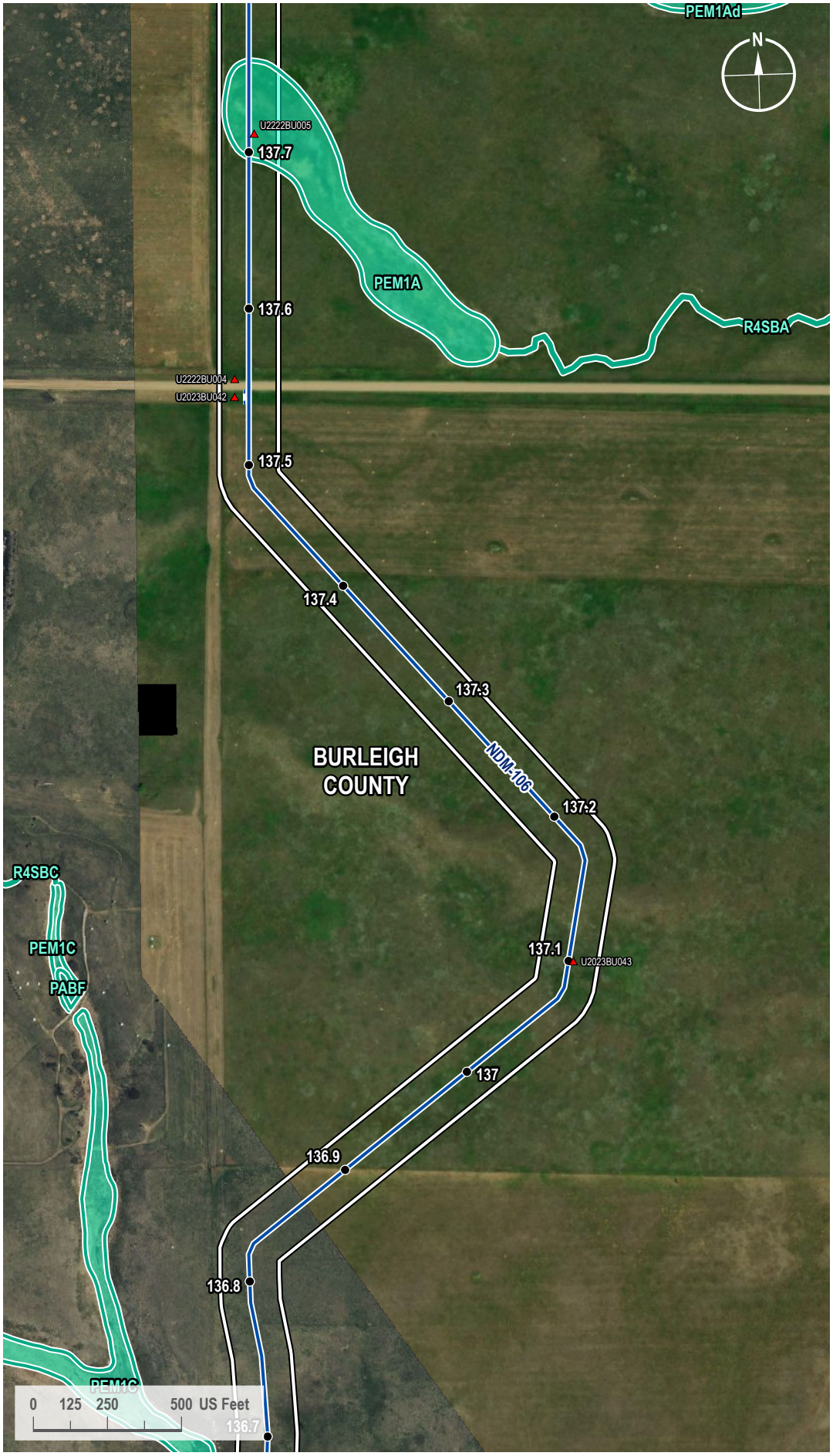

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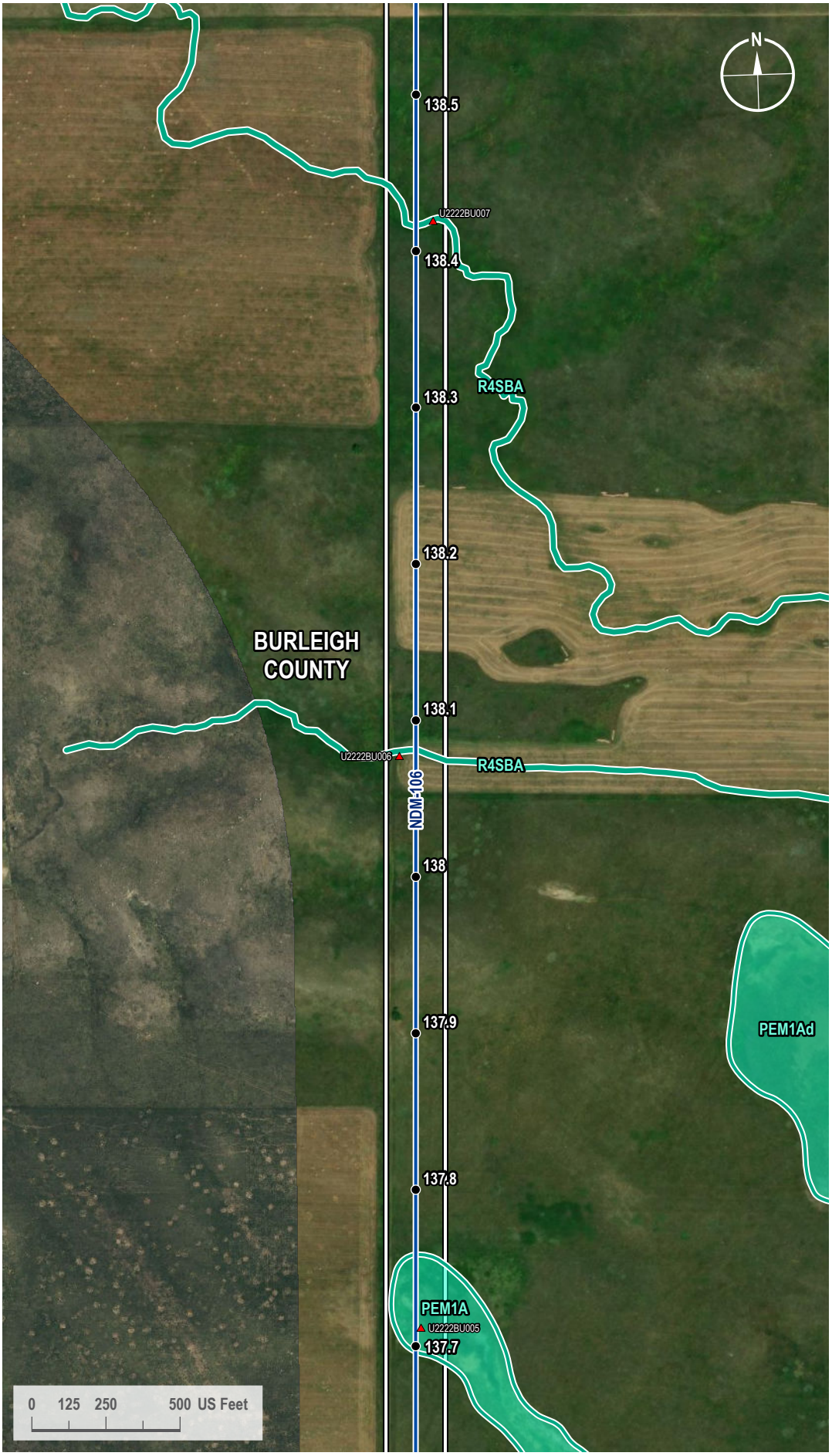

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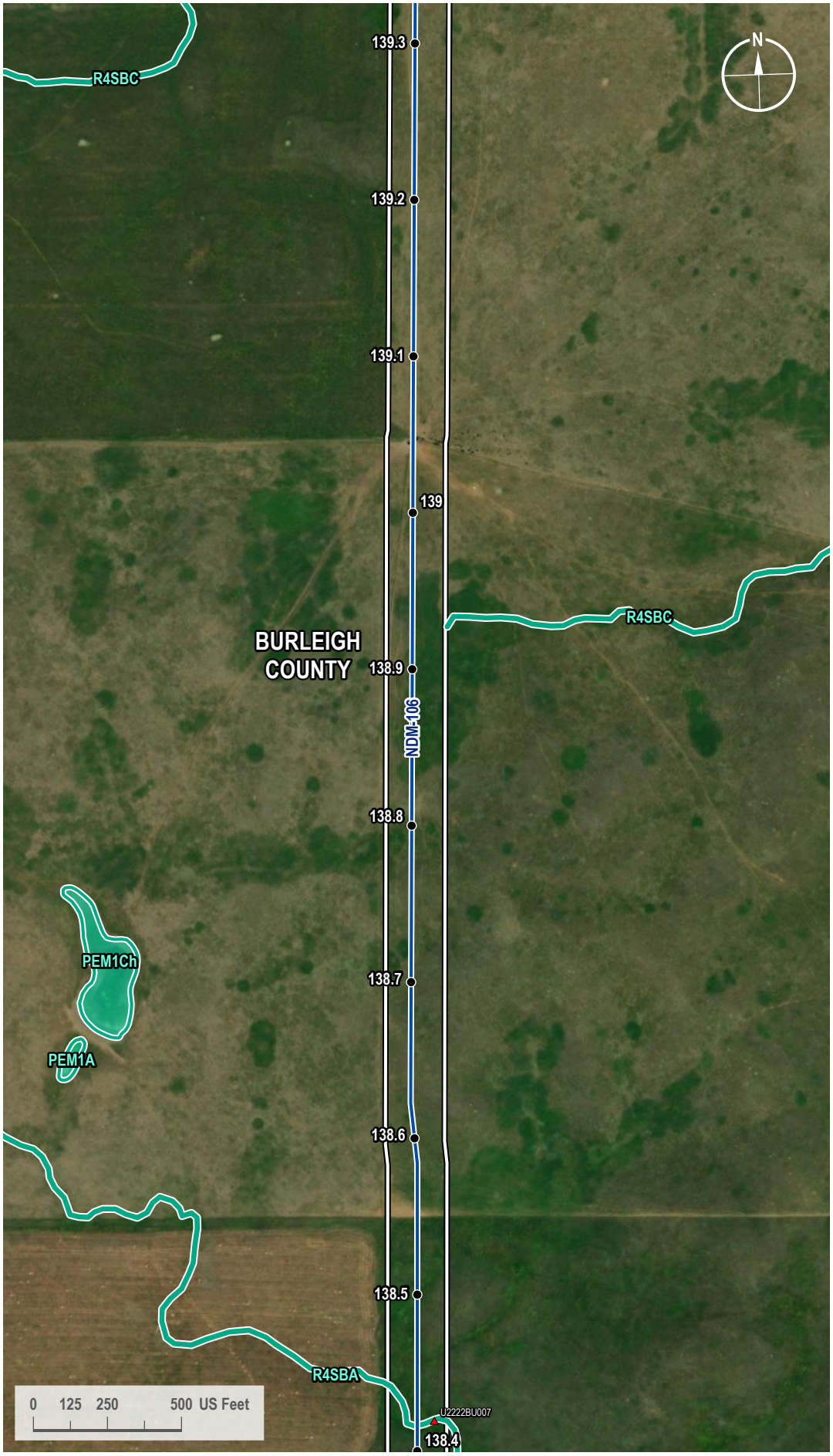

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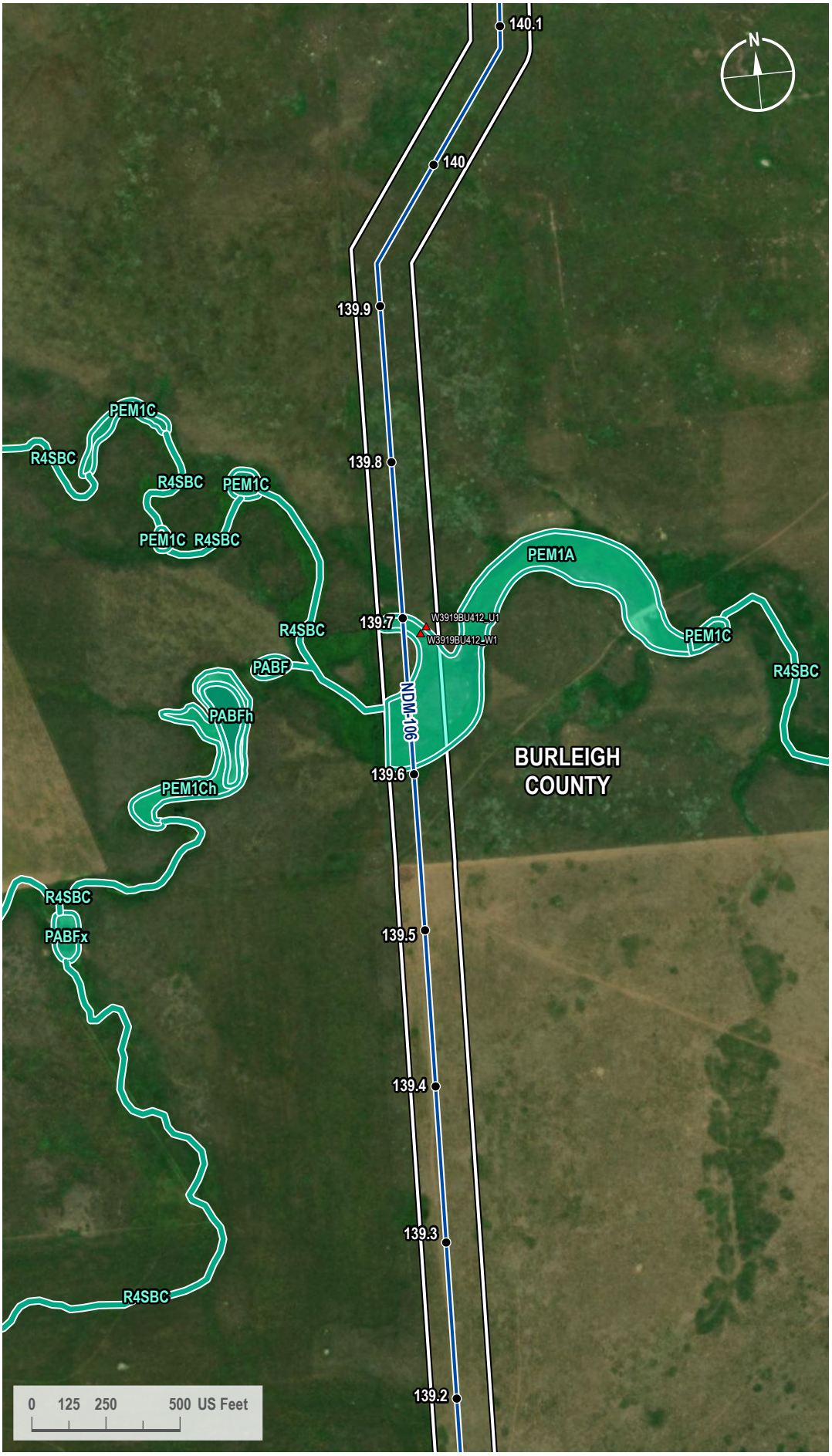

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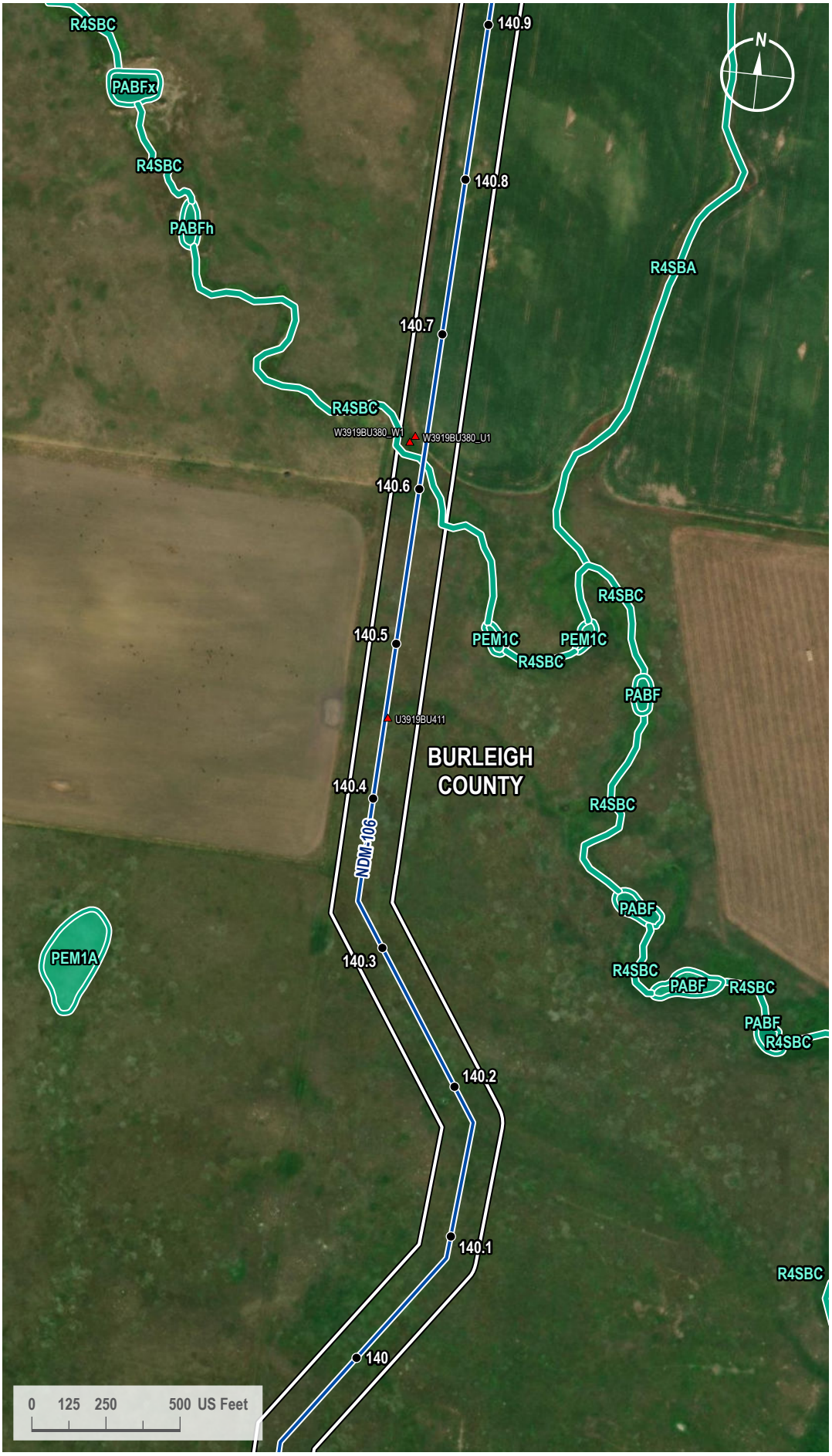

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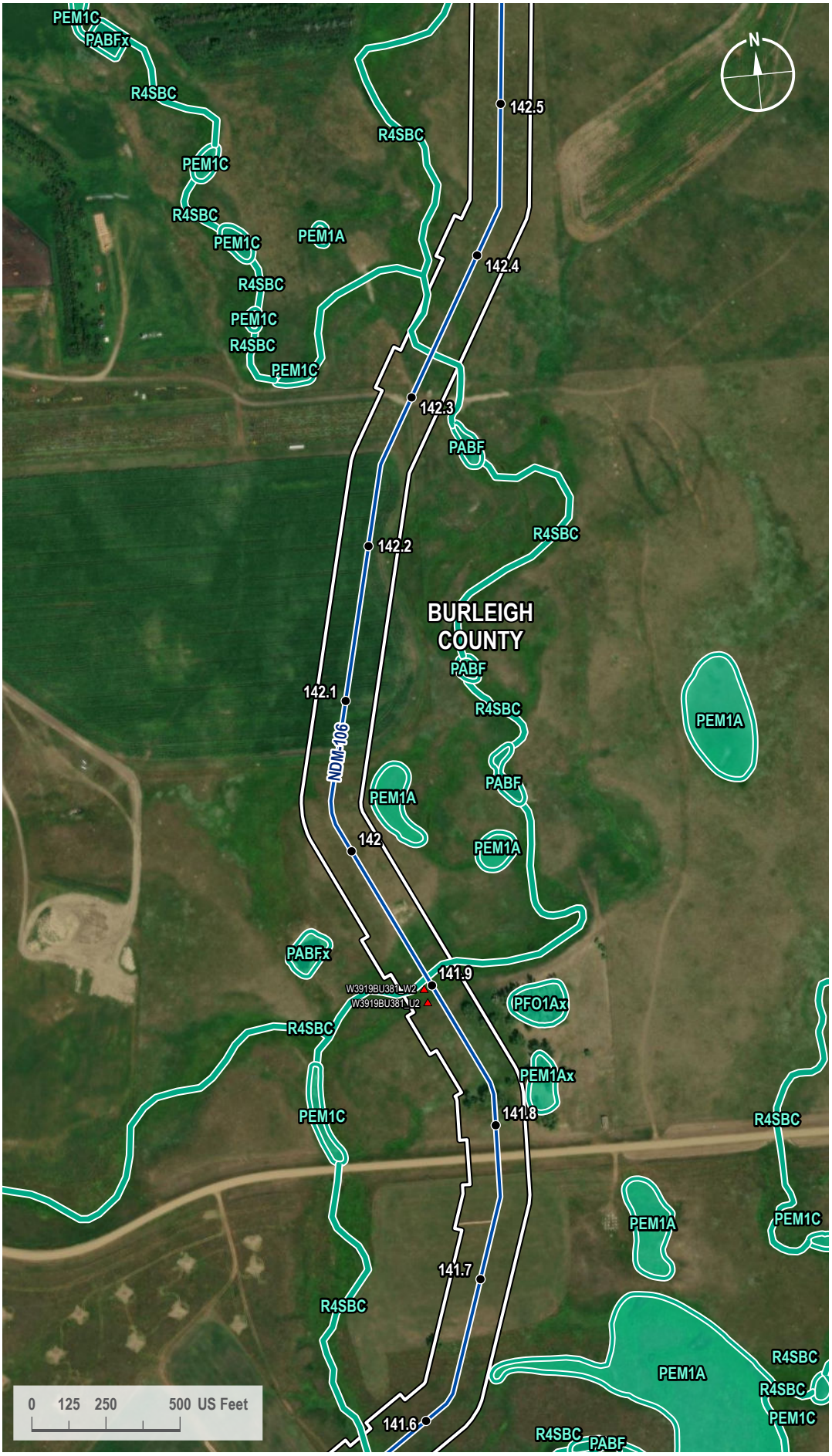

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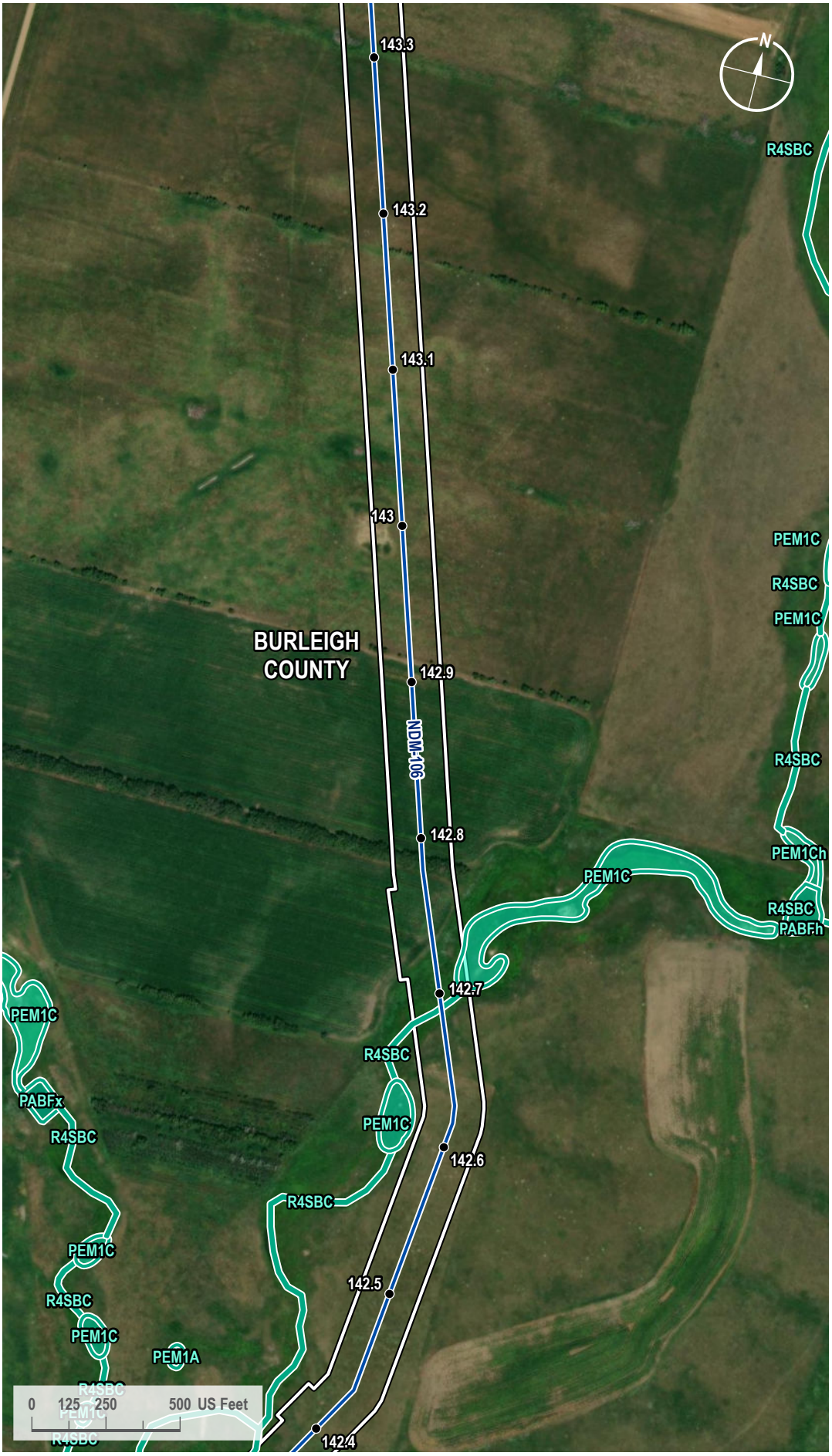

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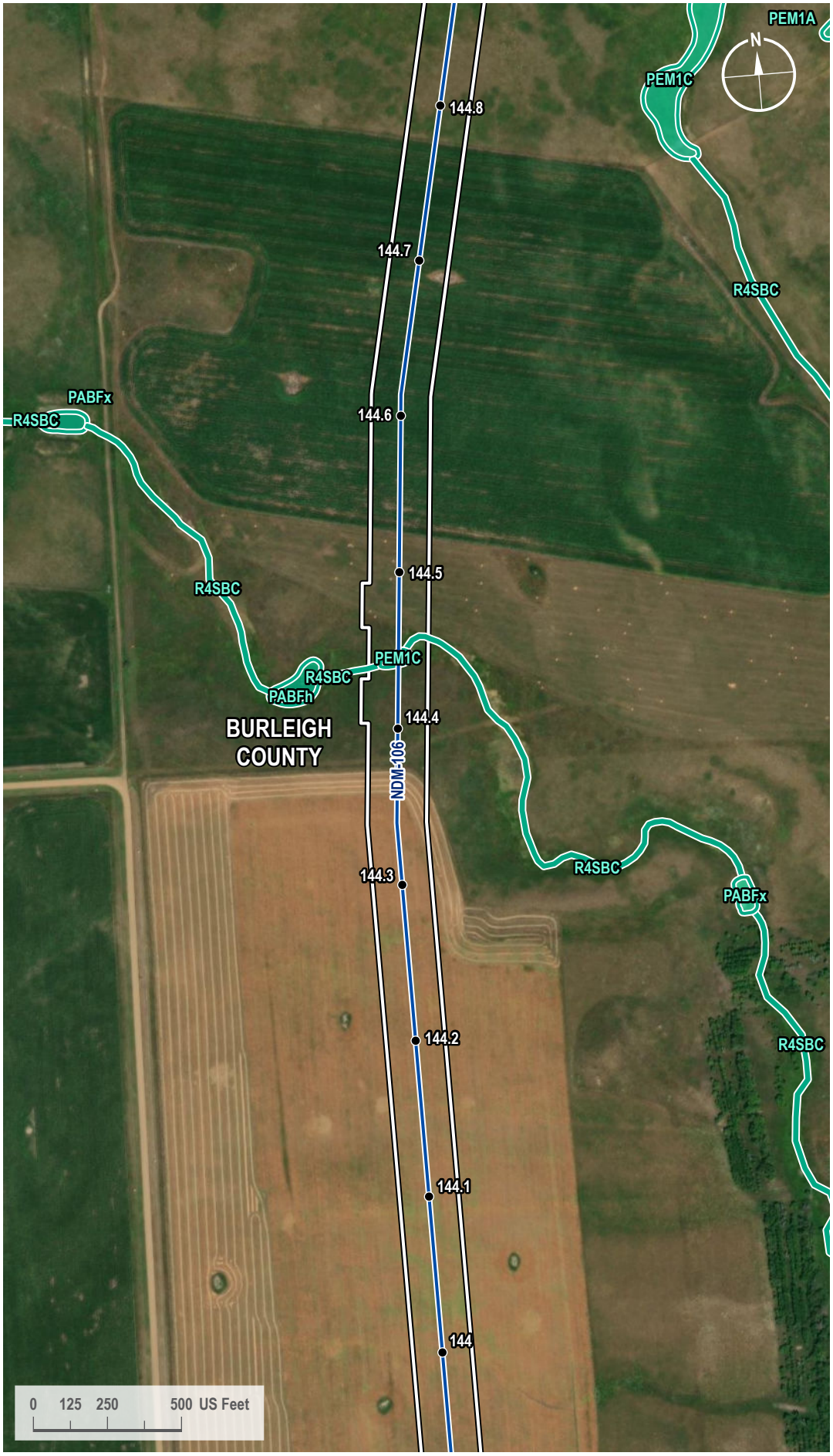

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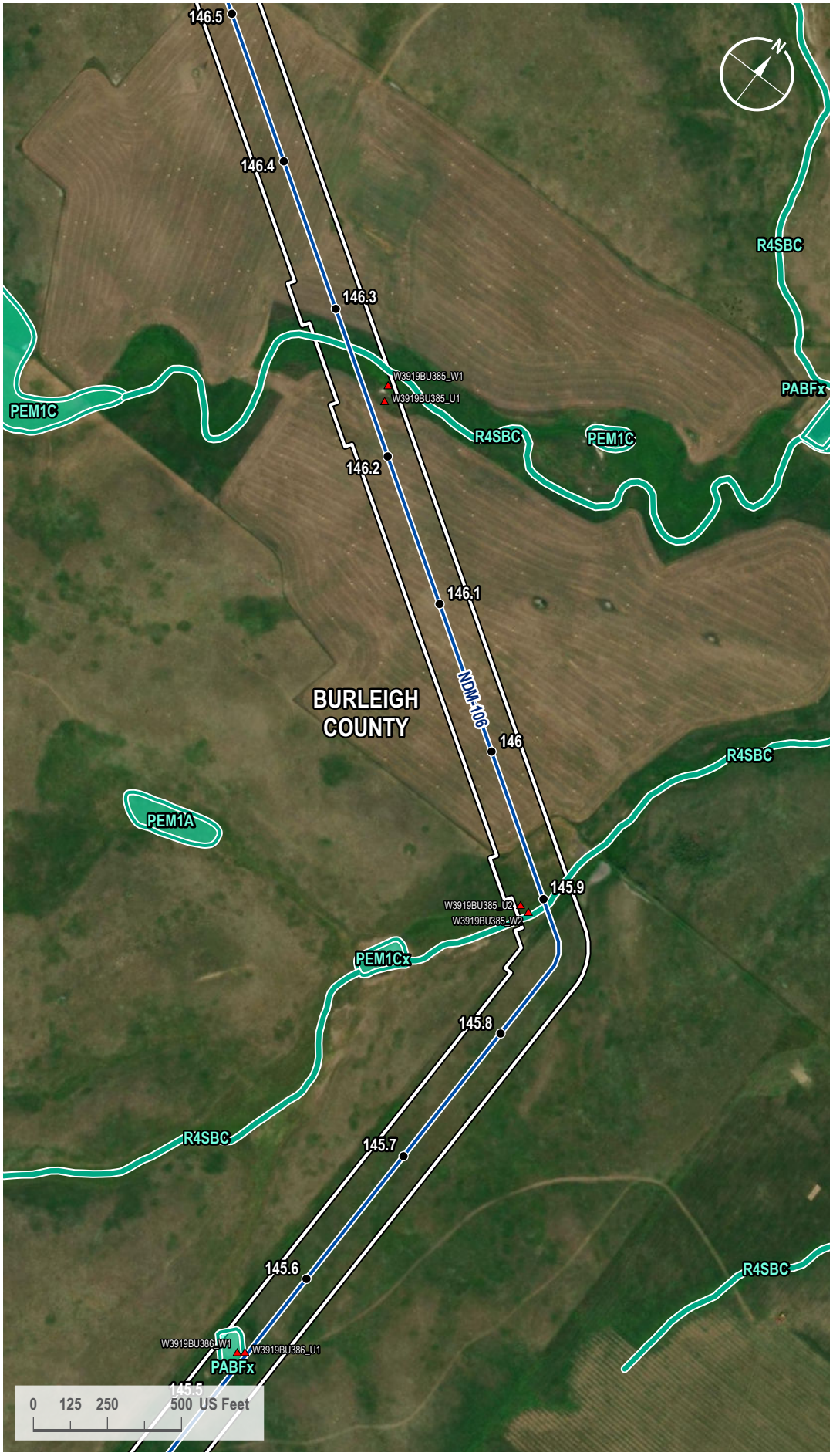

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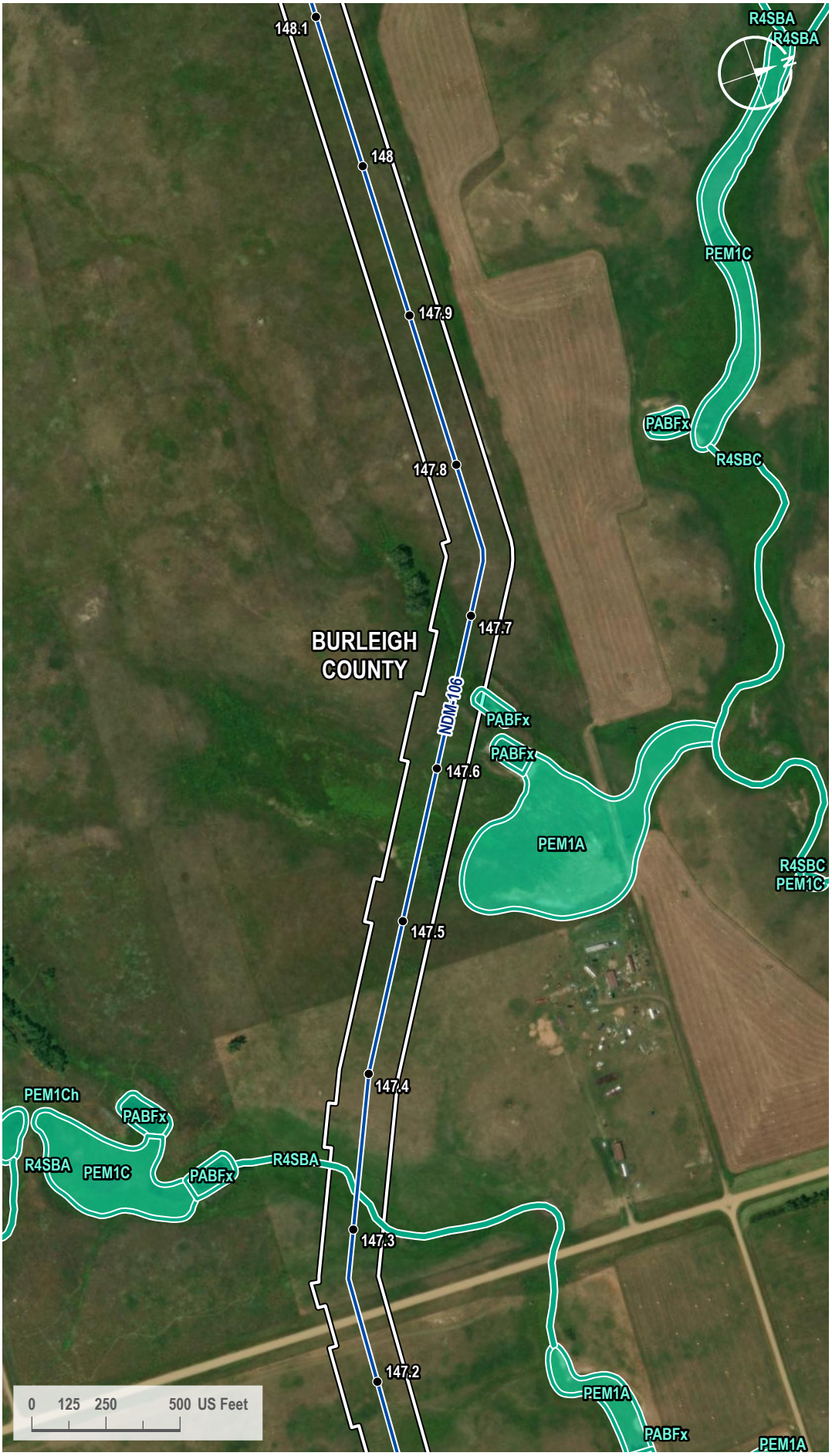

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Appendix A-4

Scale:	Projection:
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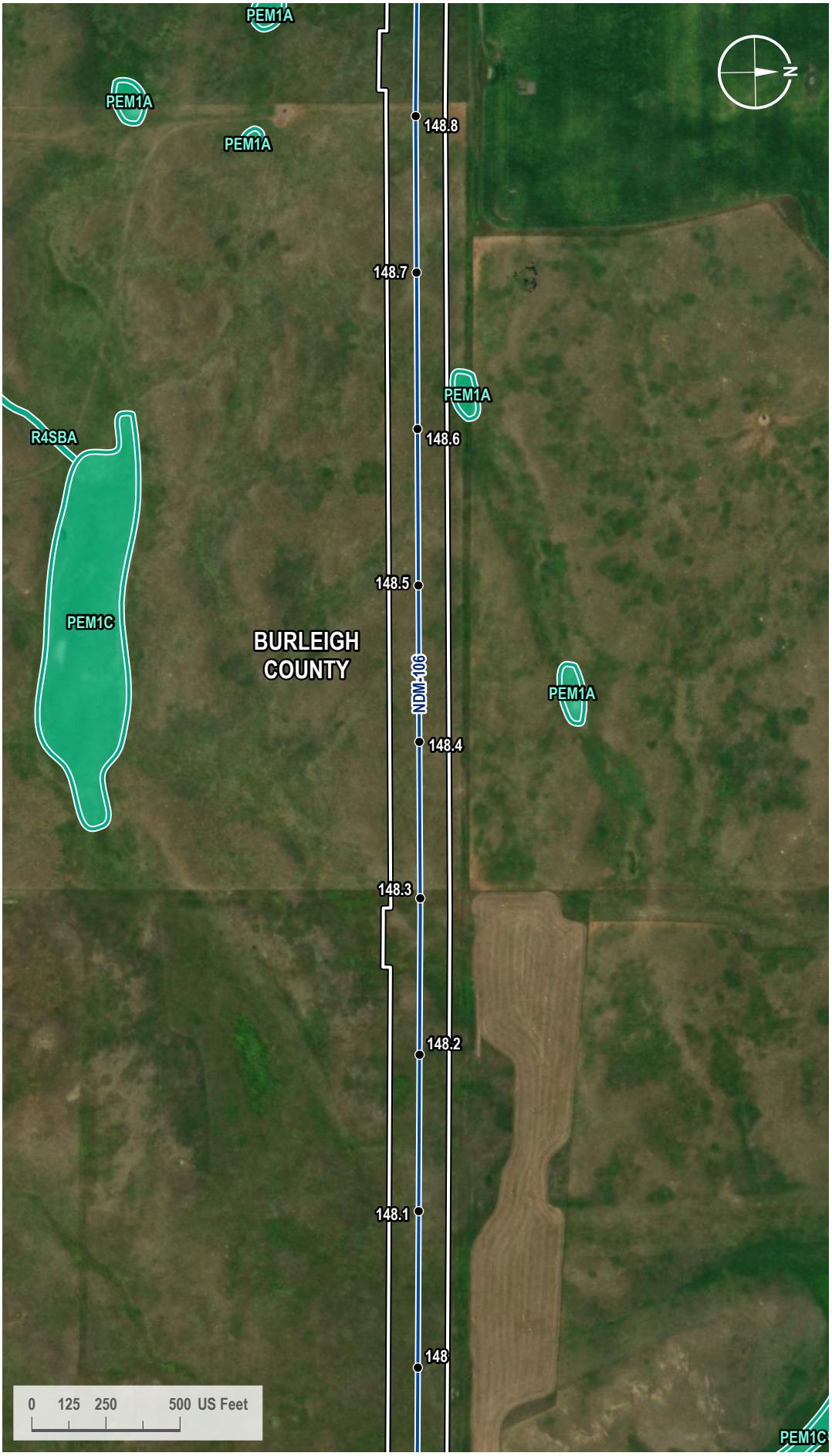

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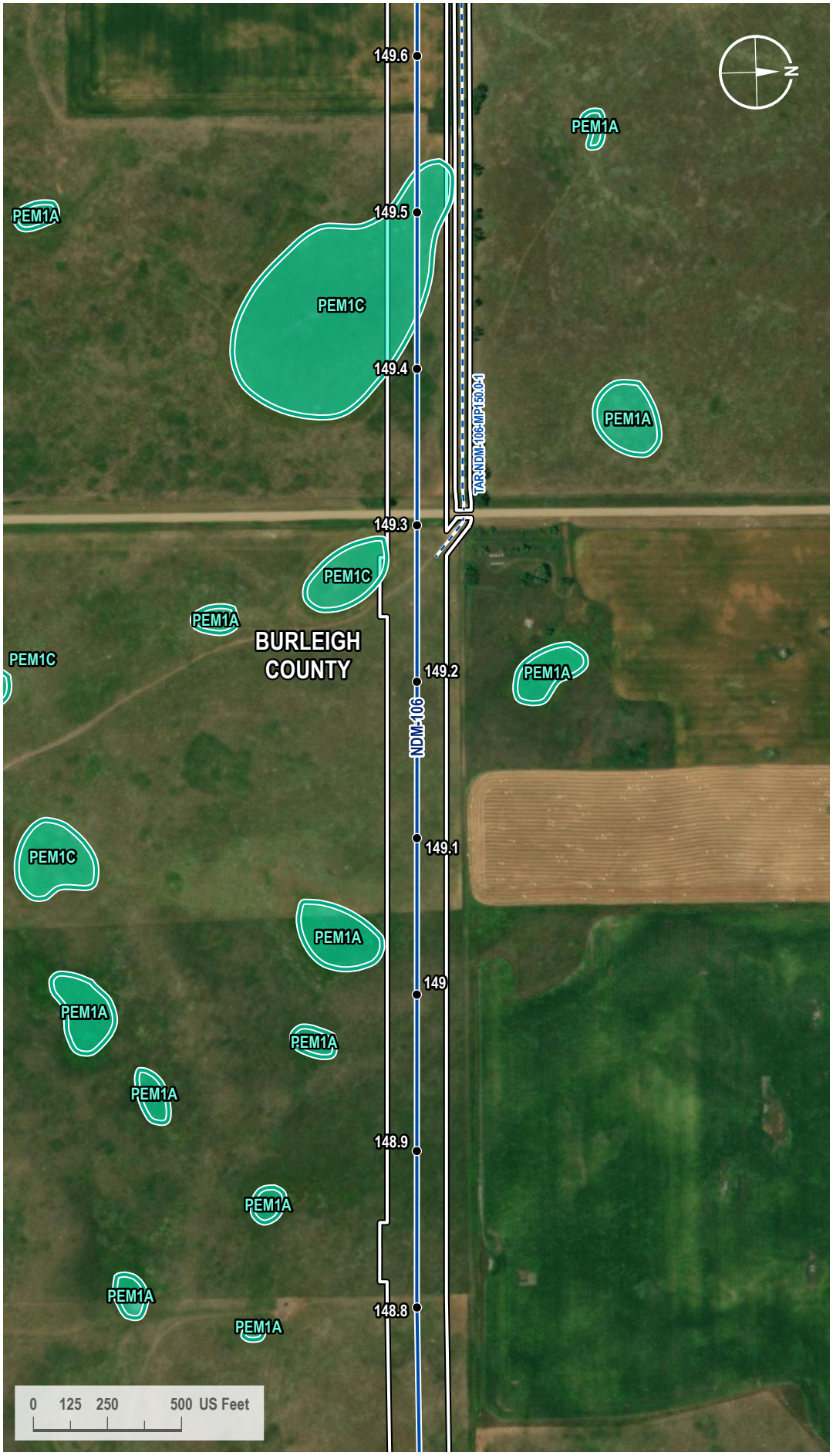

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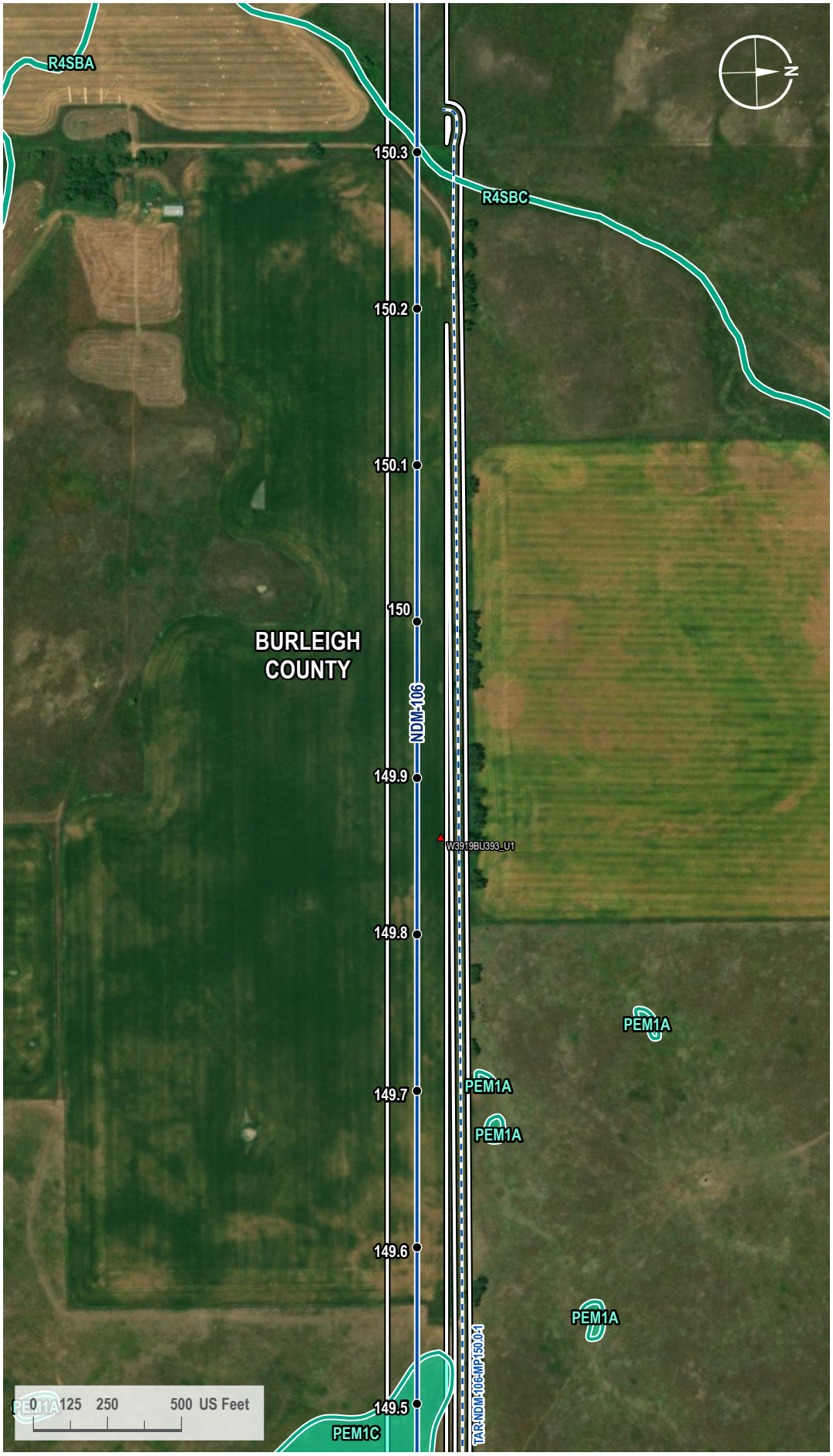

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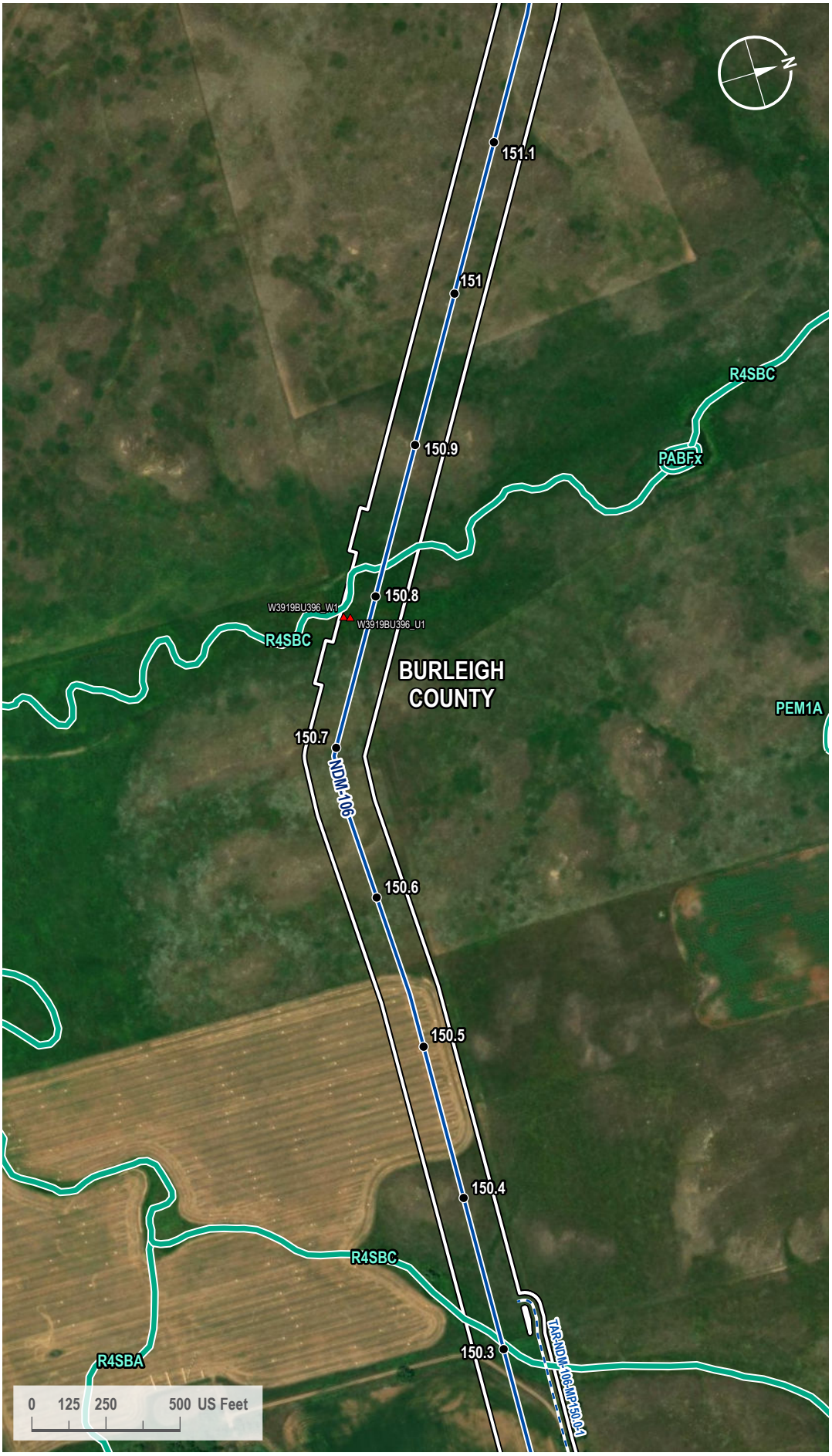

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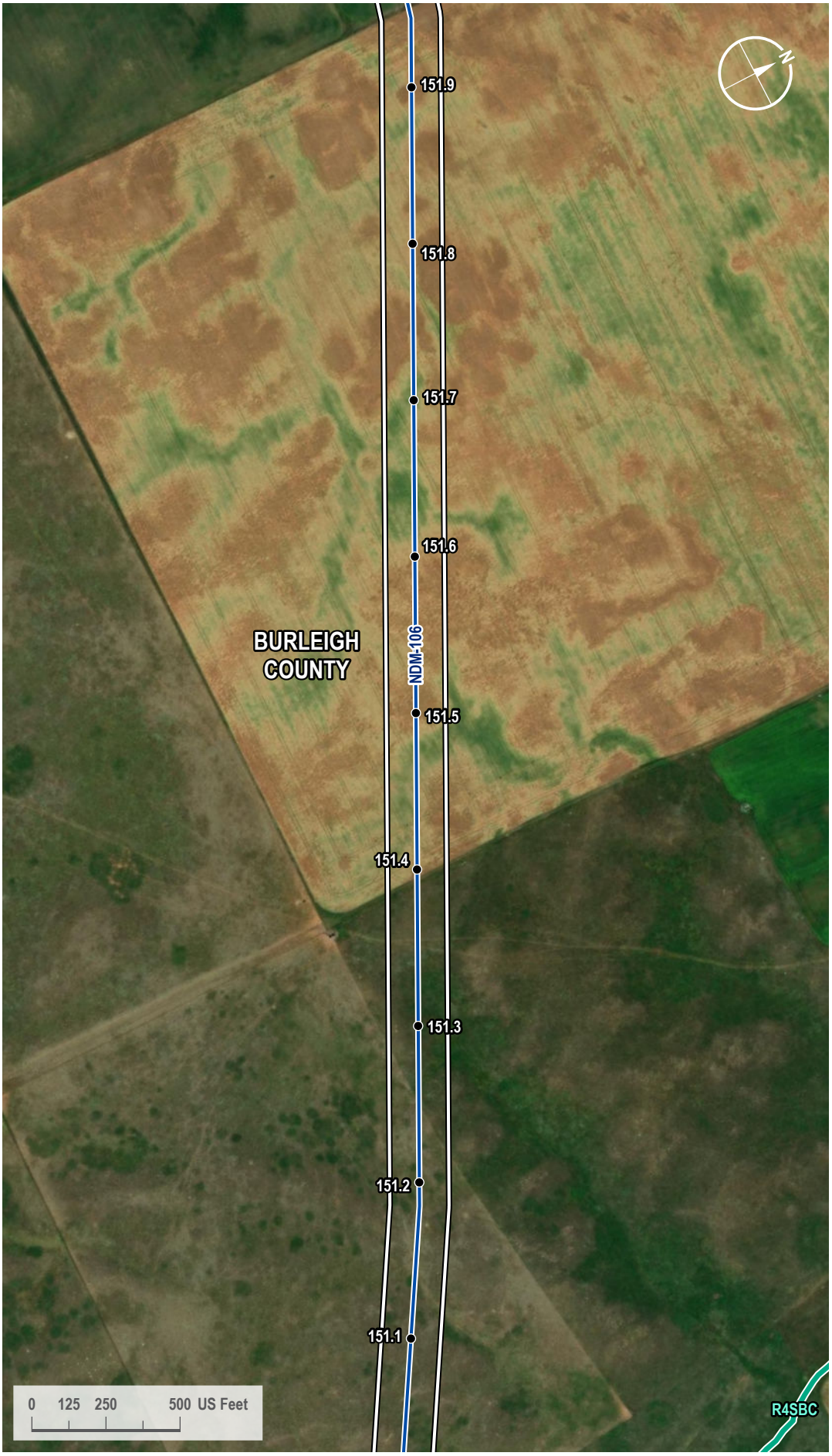

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Scale: 1 : 6,000
1 inch equals 500 feet

Projection: Transverse Mercator
NAD 1983 UTM Zone 14N

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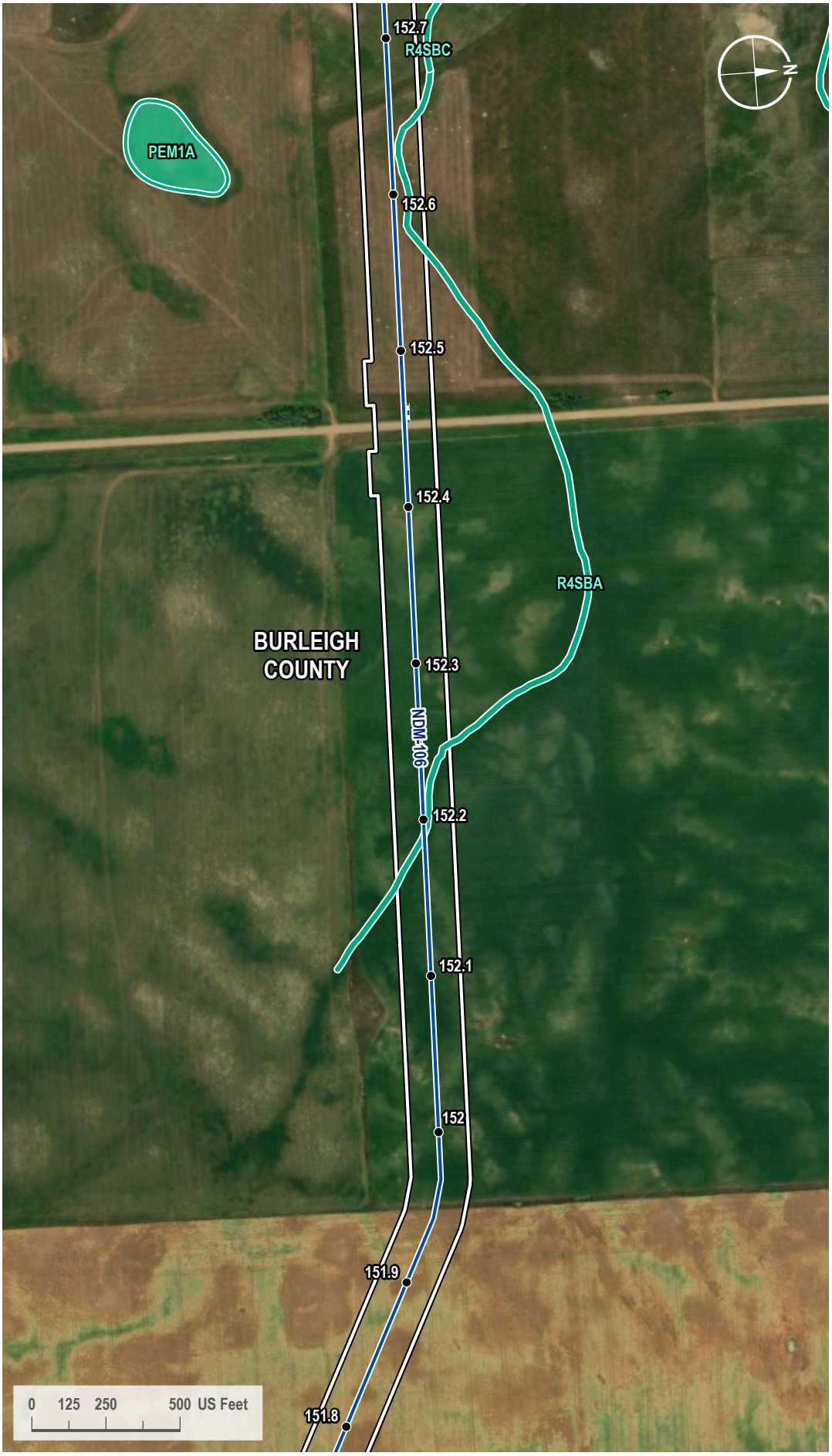

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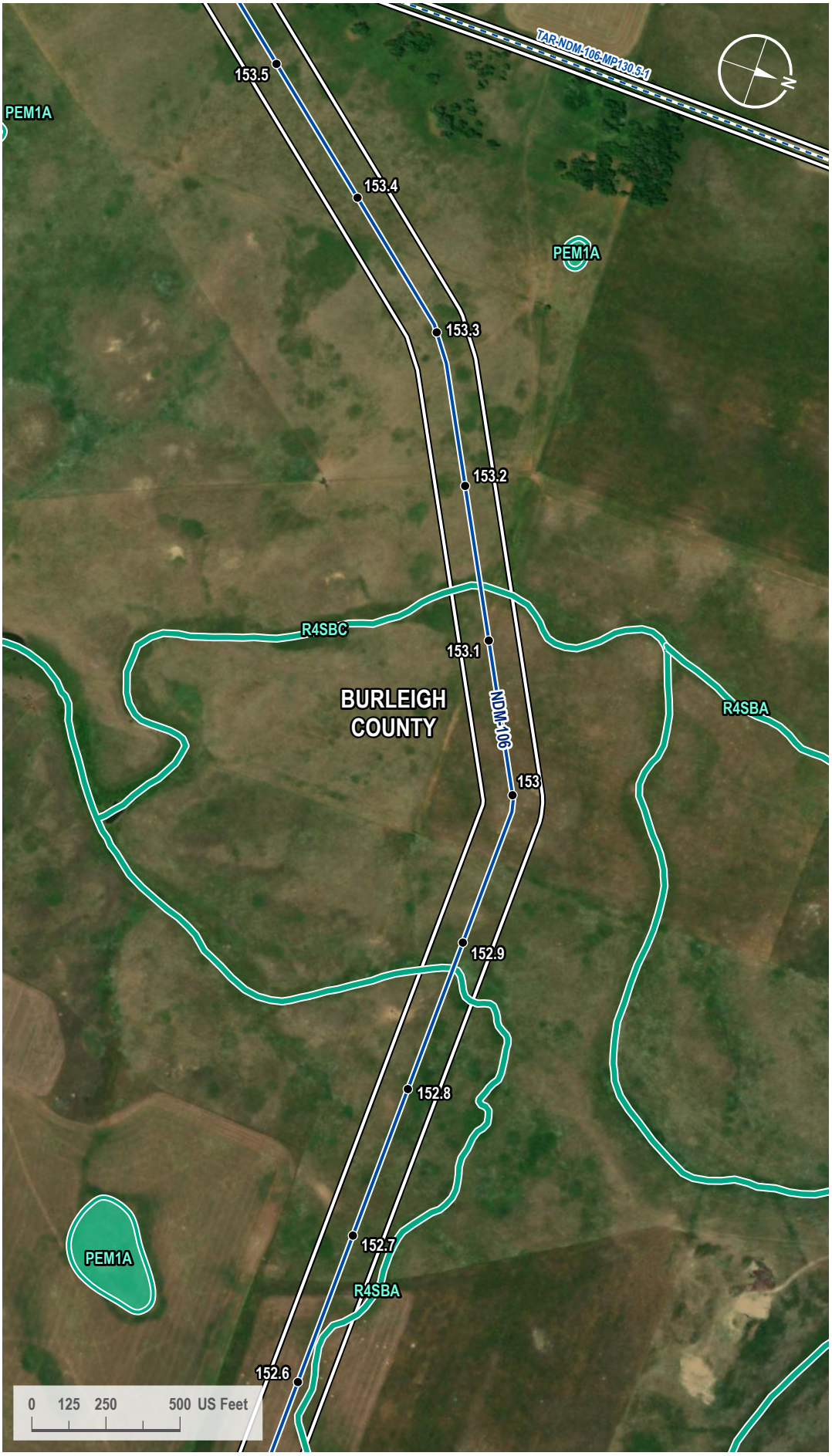

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NWI MAP



VICINITY MAP



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NWI MAP



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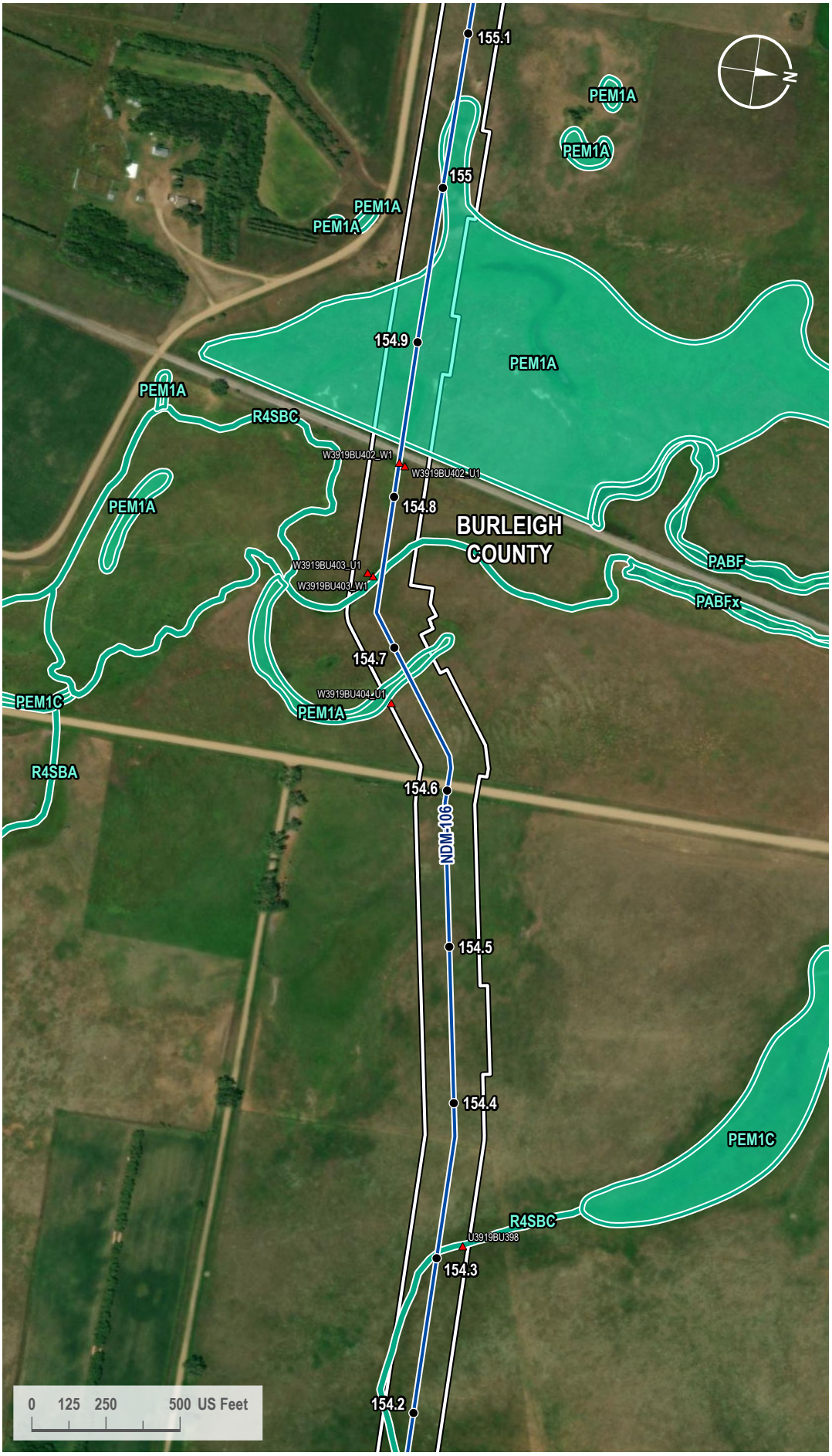

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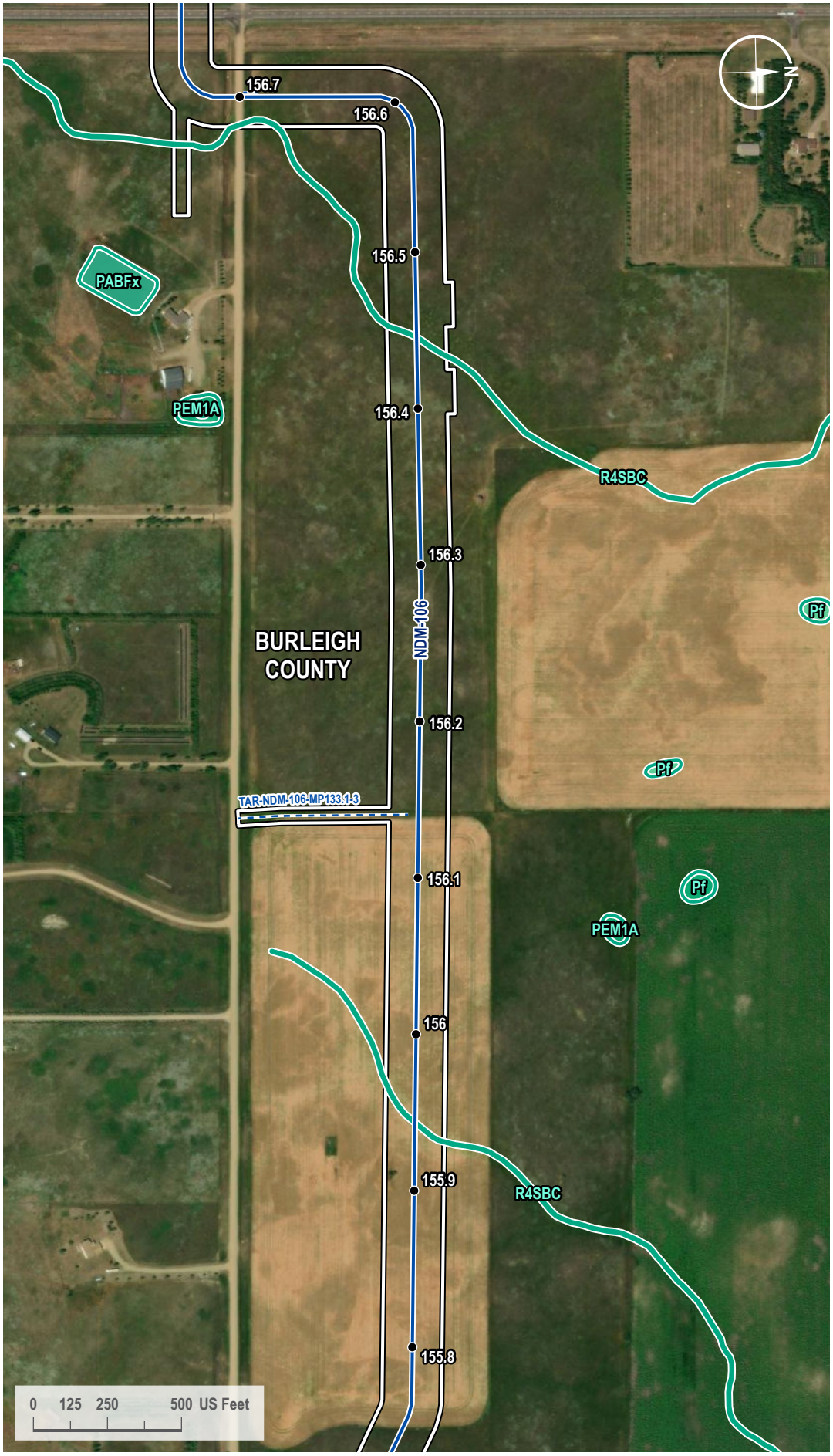

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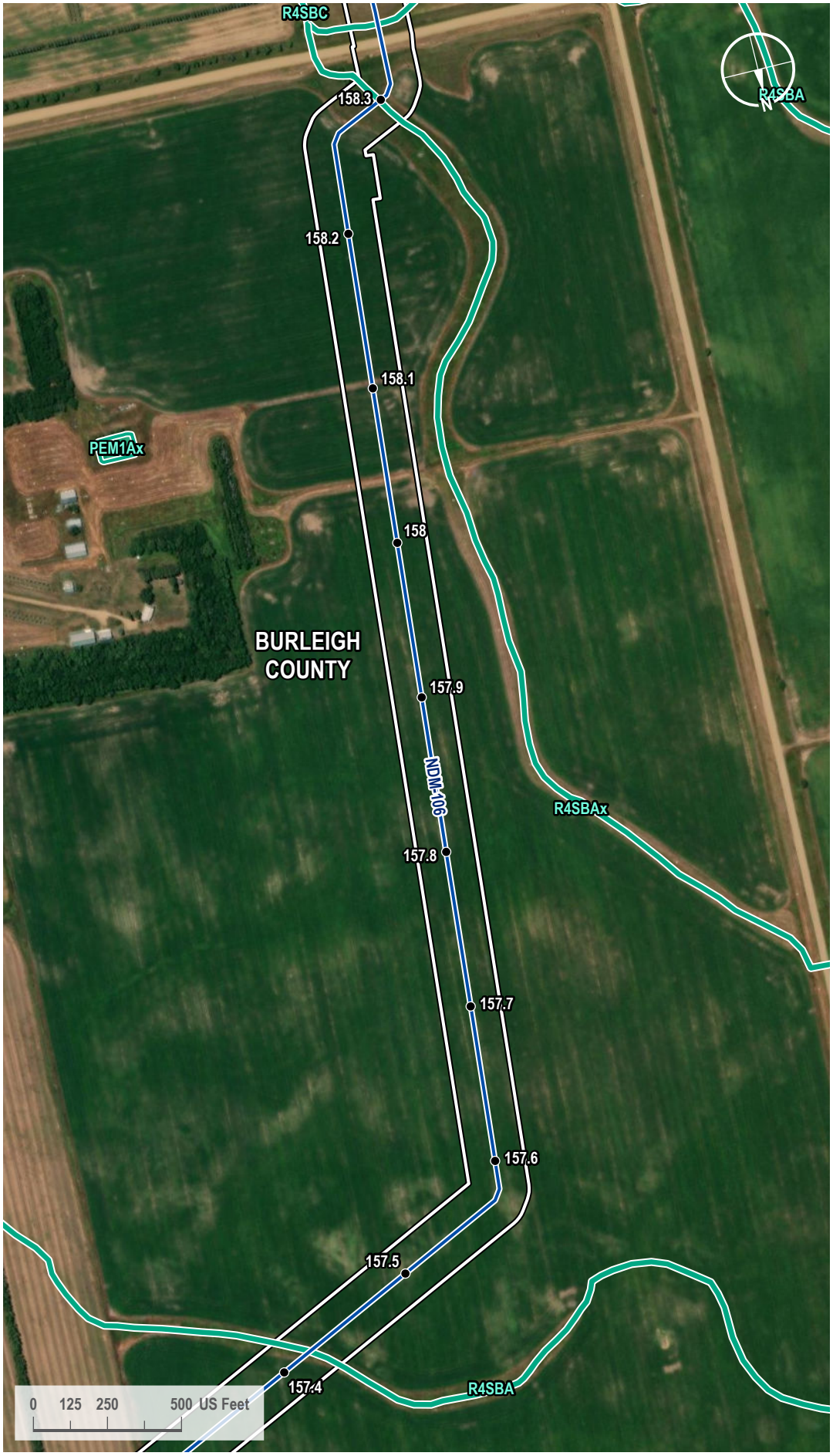

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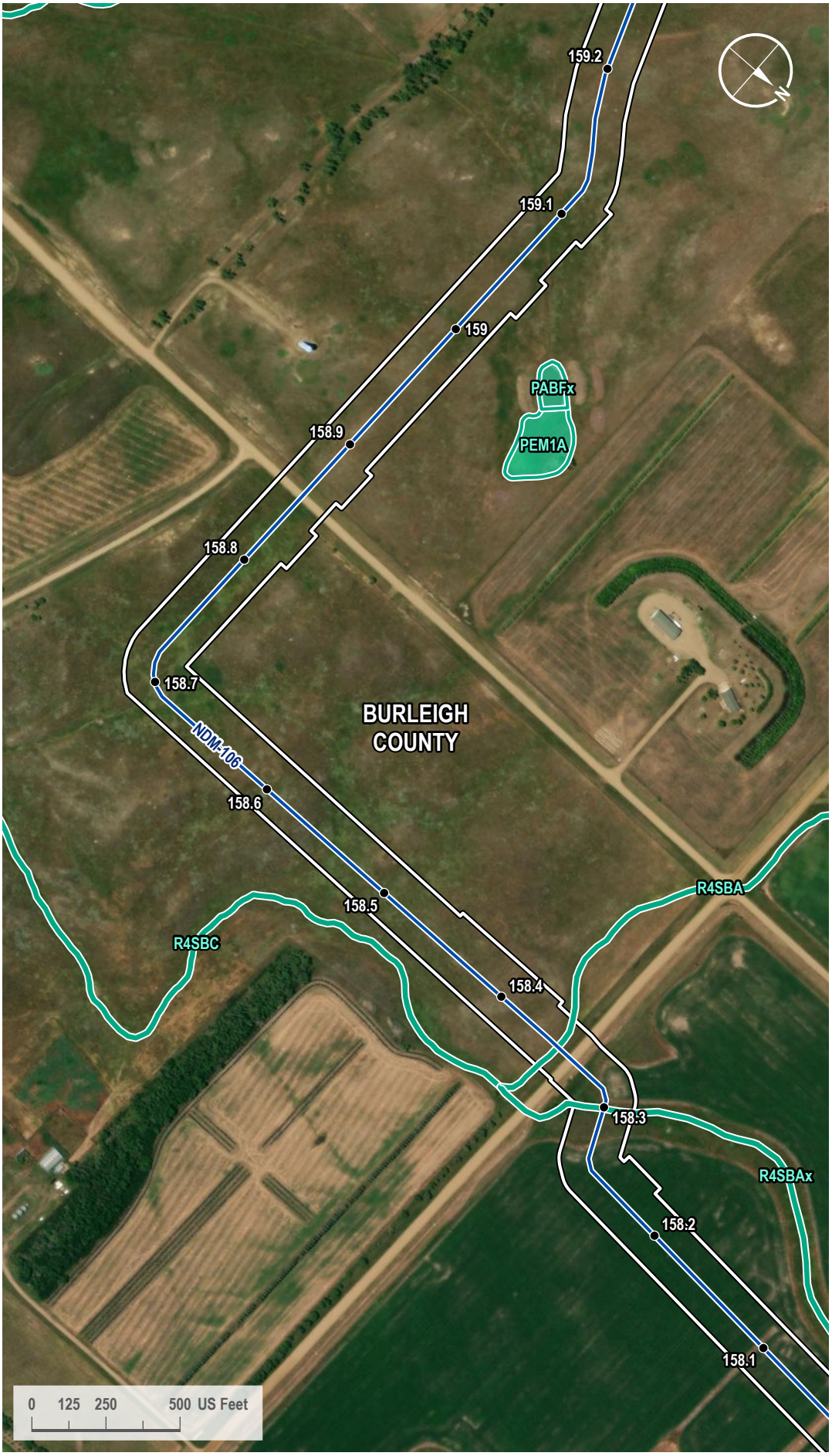

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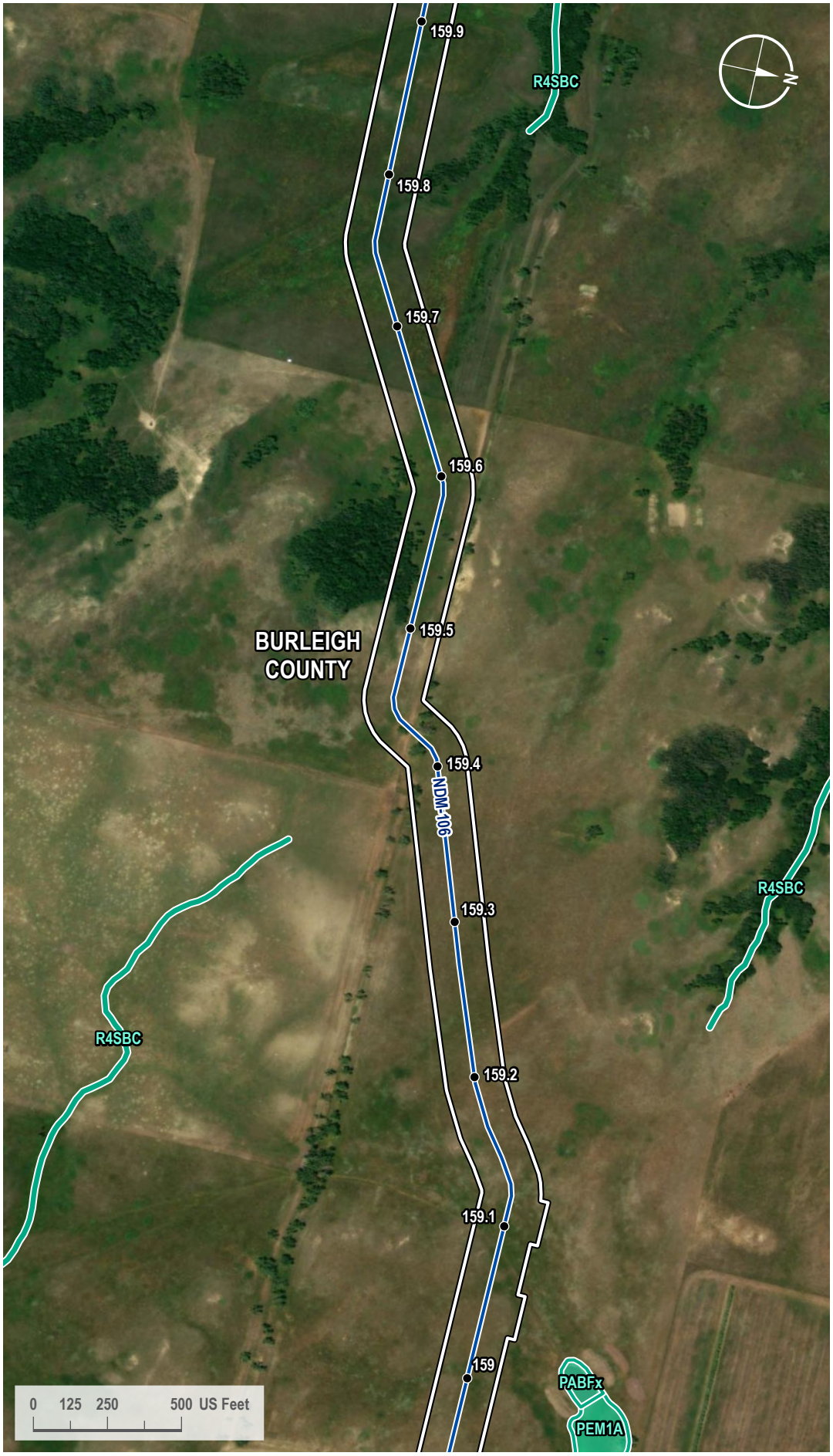

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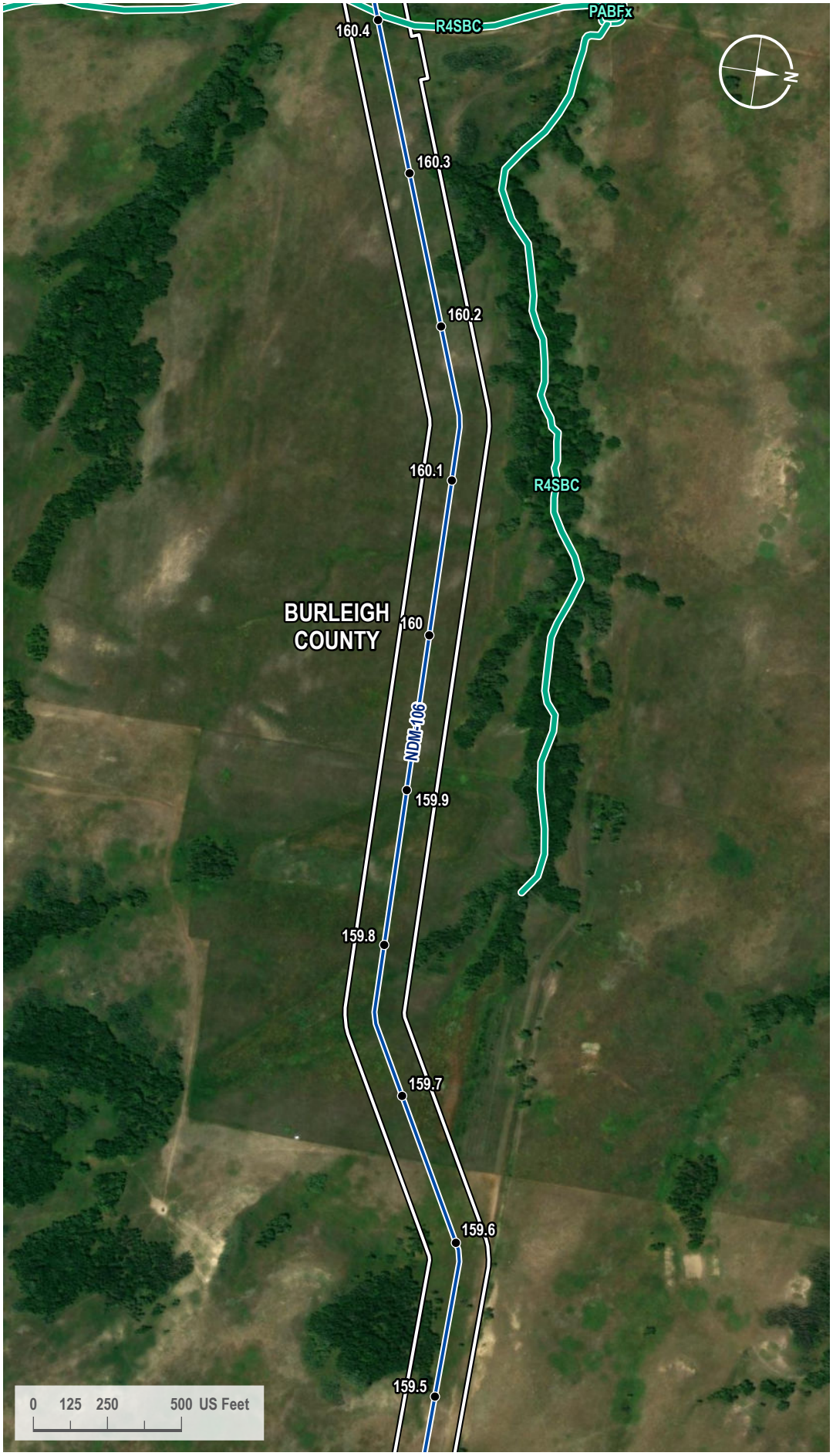

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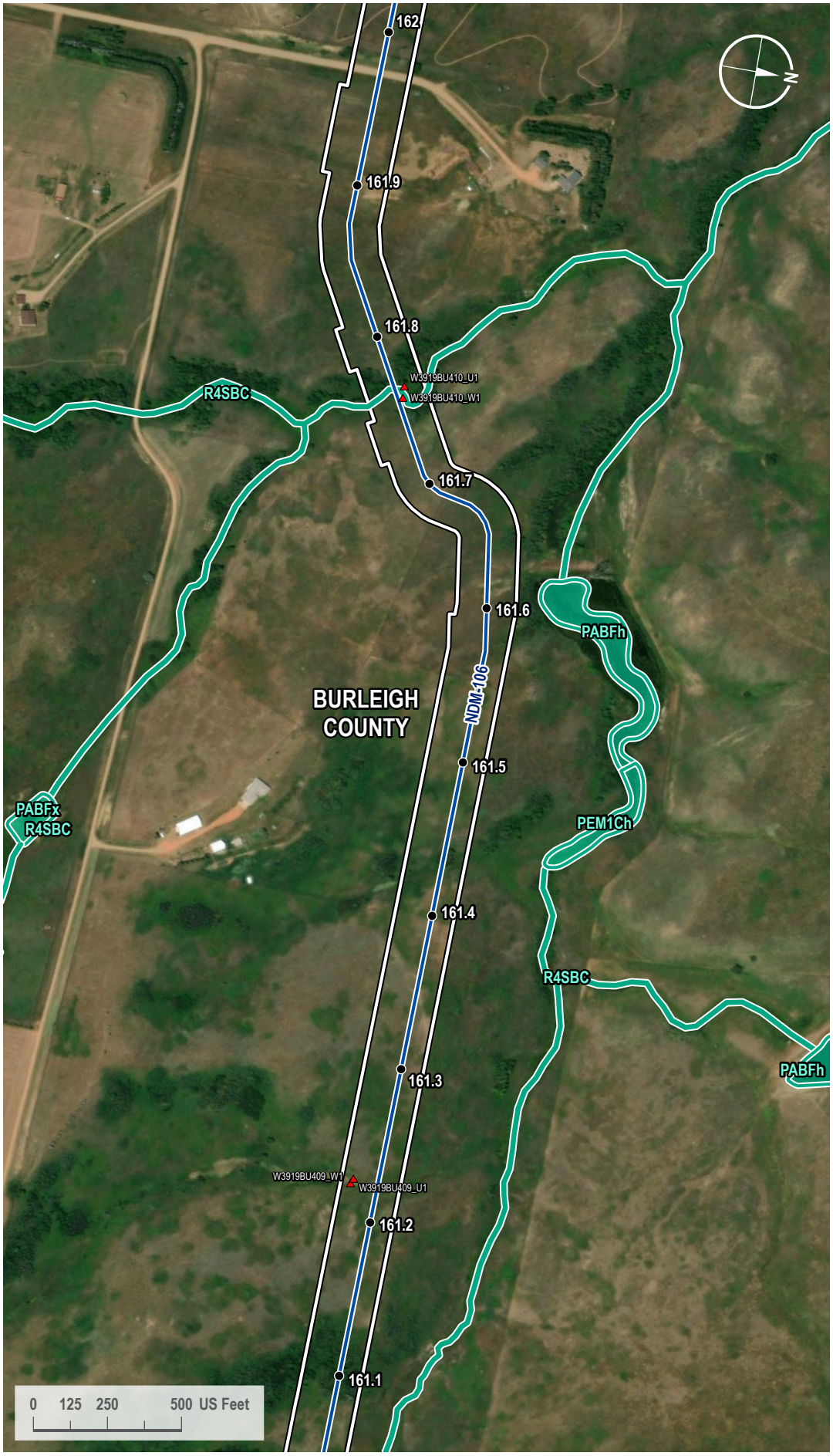

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Figure Title: NWI Map

Figure Number: Appendix A-4

Scale	Projection
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet	Drawing Number
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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
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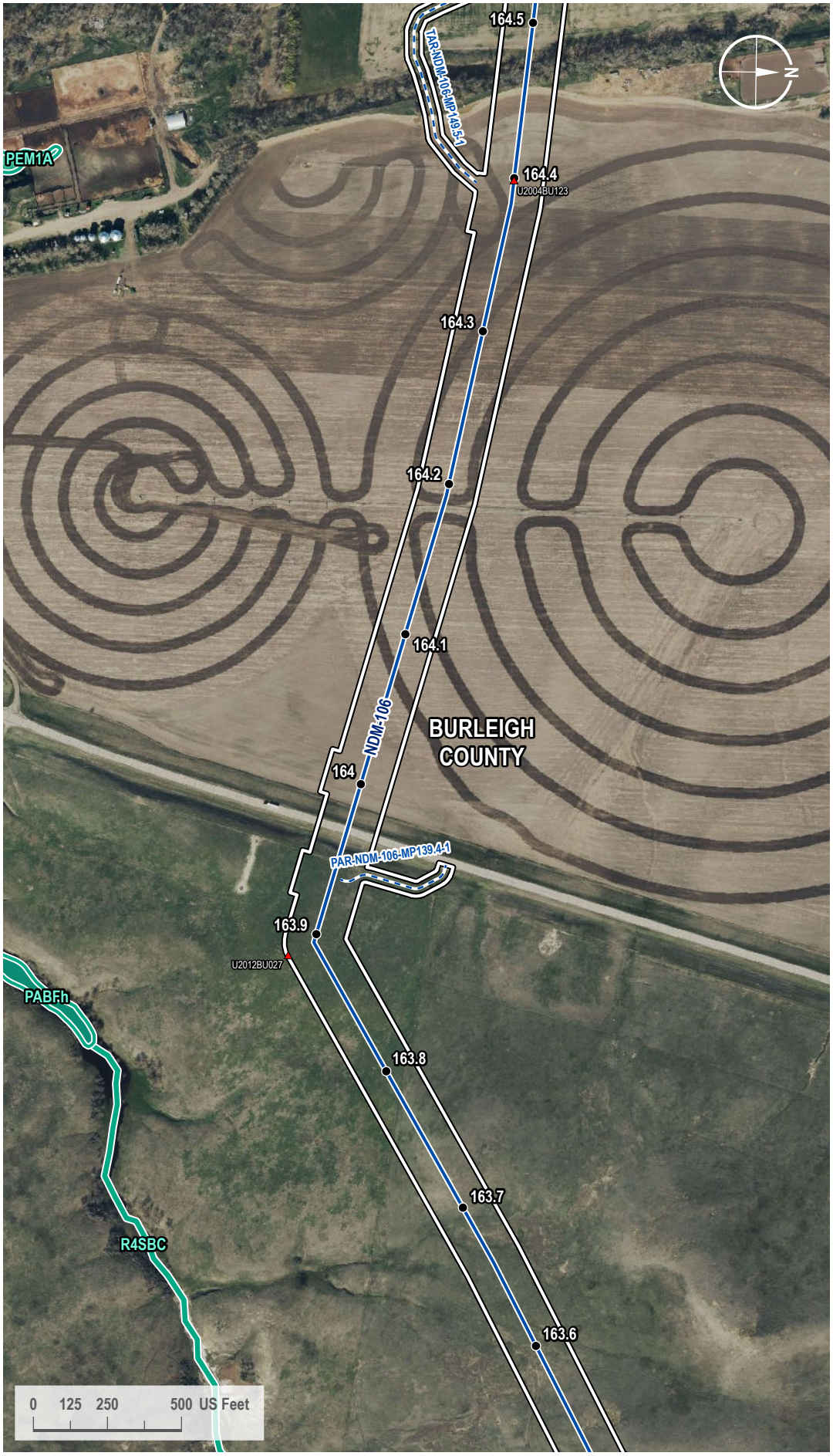

VICINITY MAP



LEGEND

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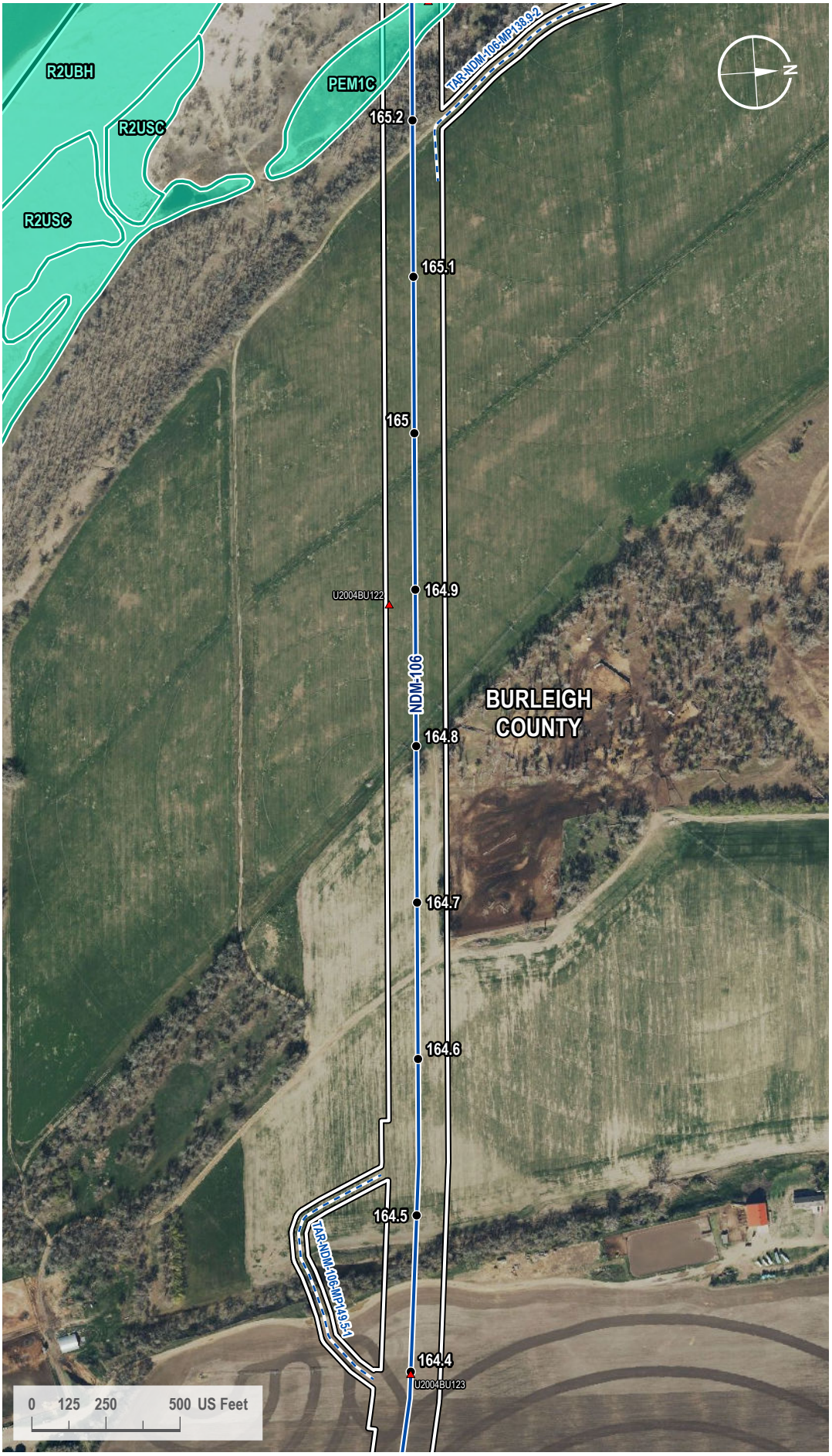

VICINITY MAP



LEGEND

- Milepost
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- County Line
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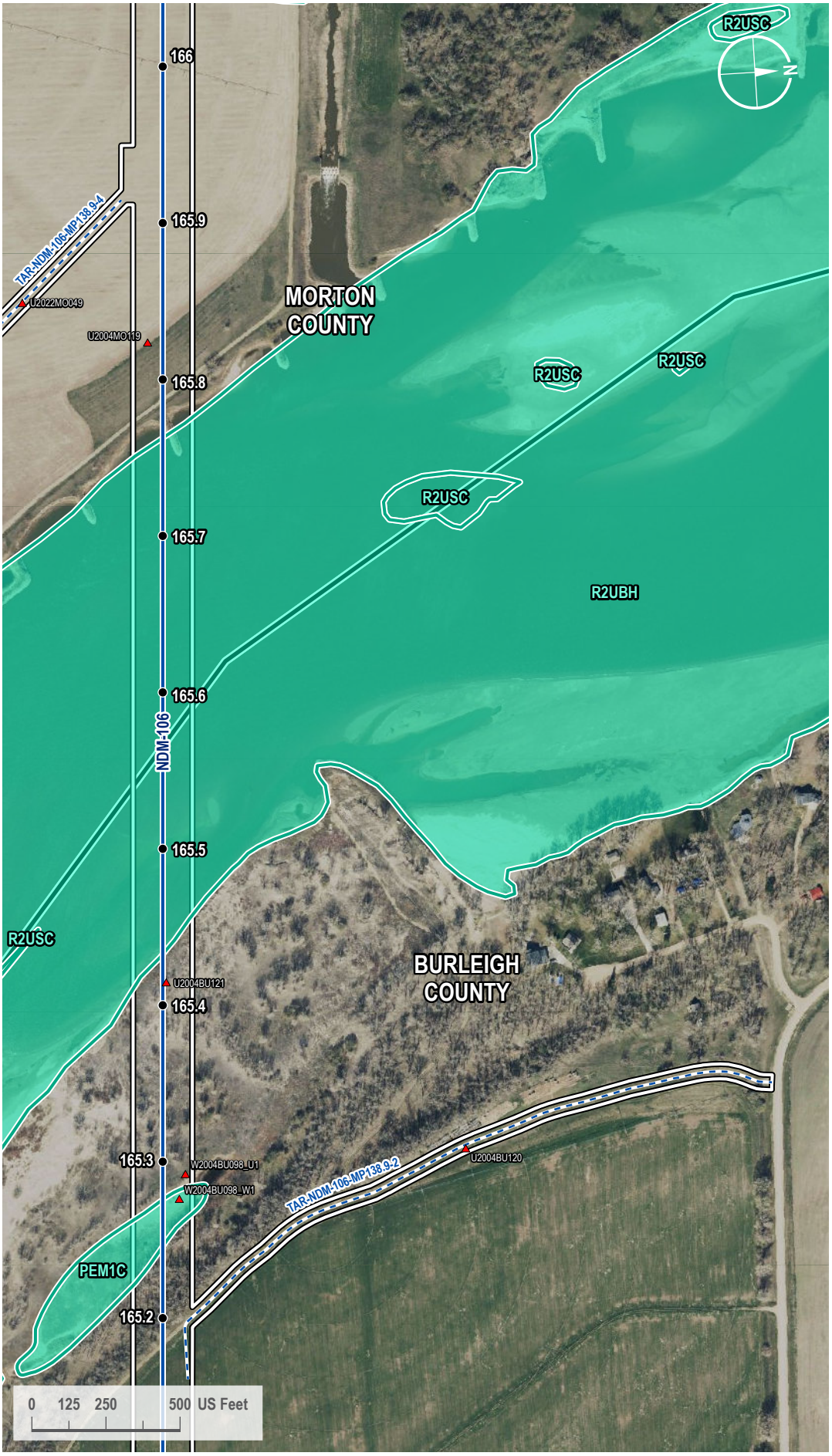

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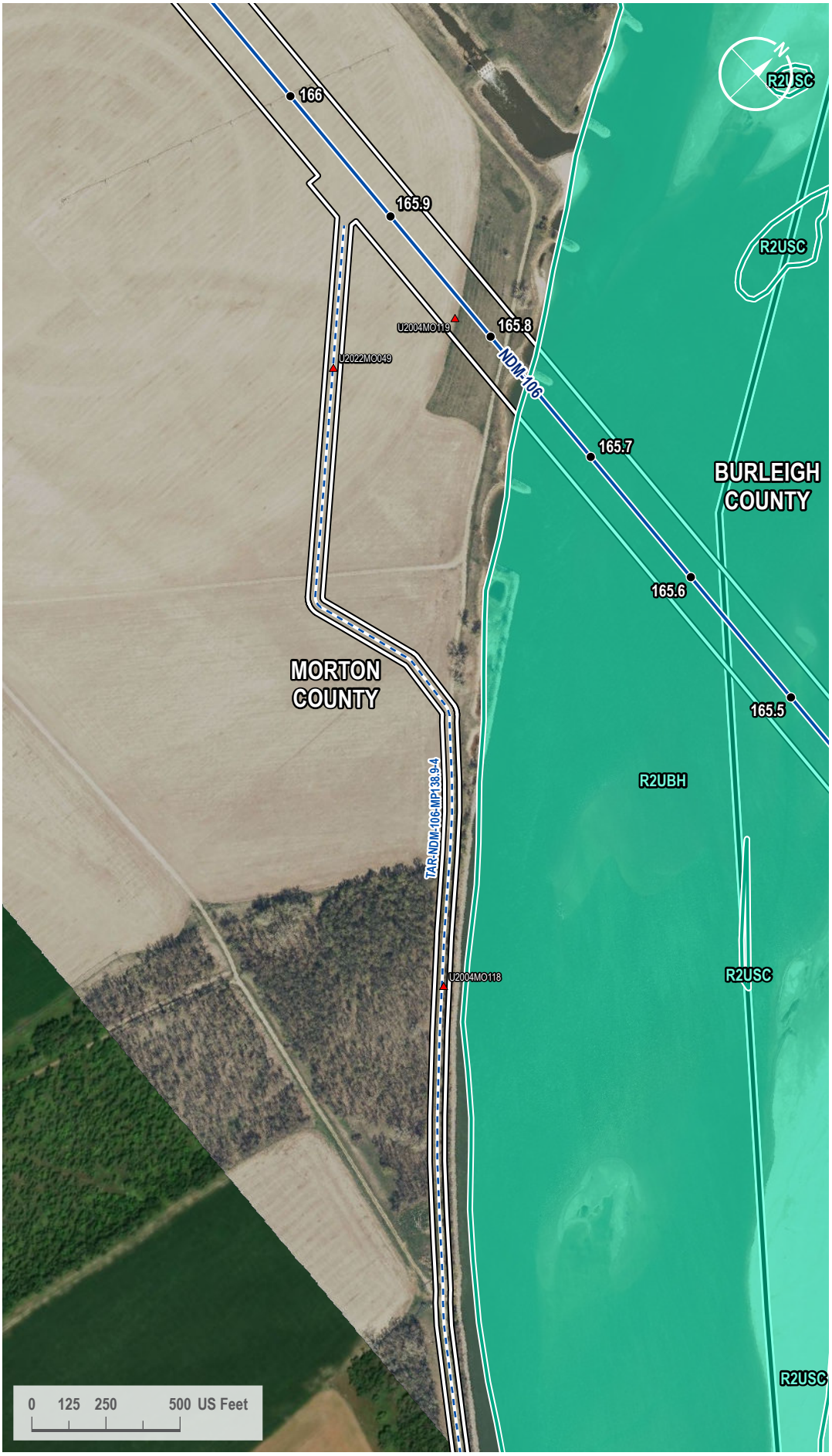

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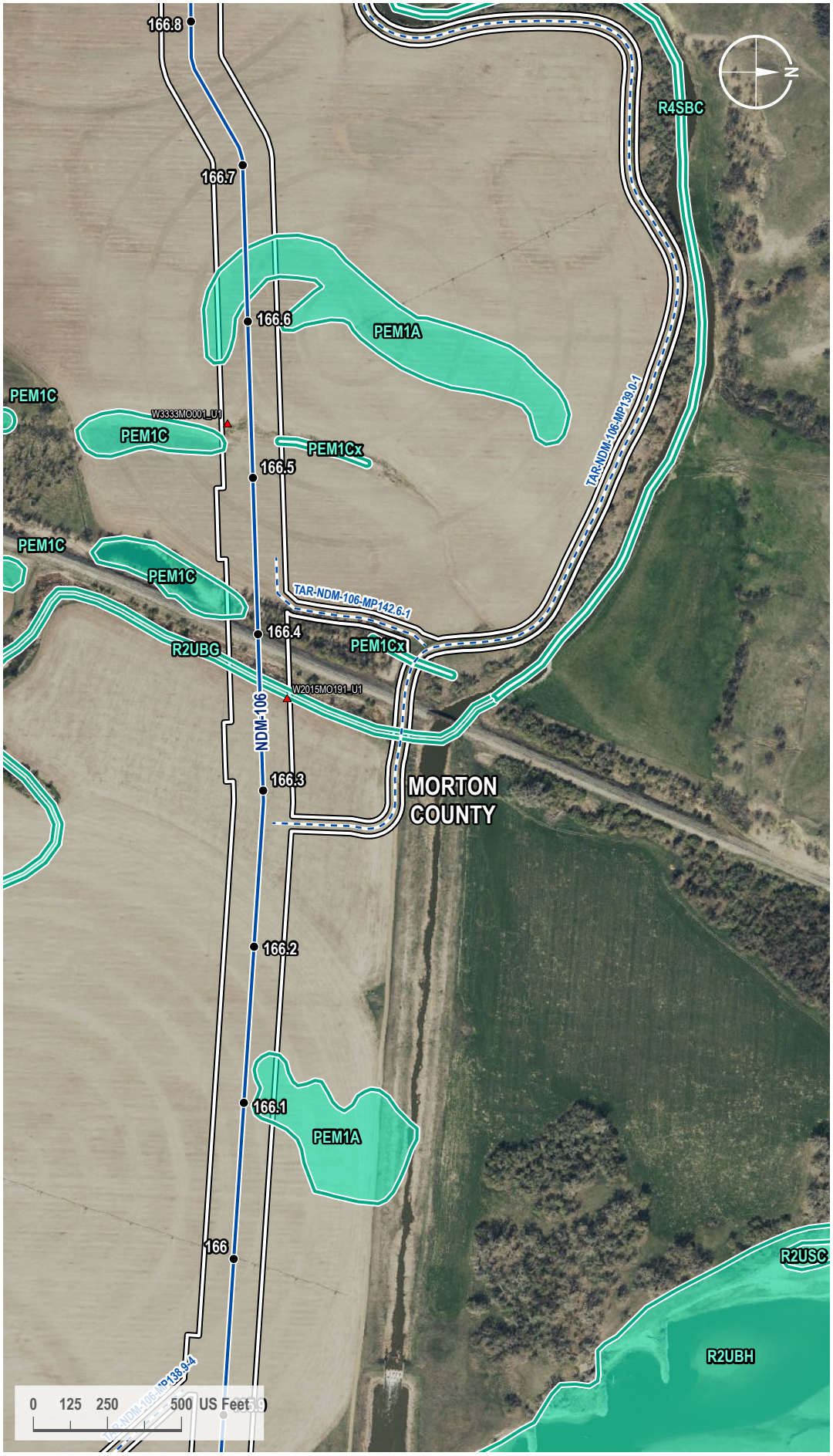

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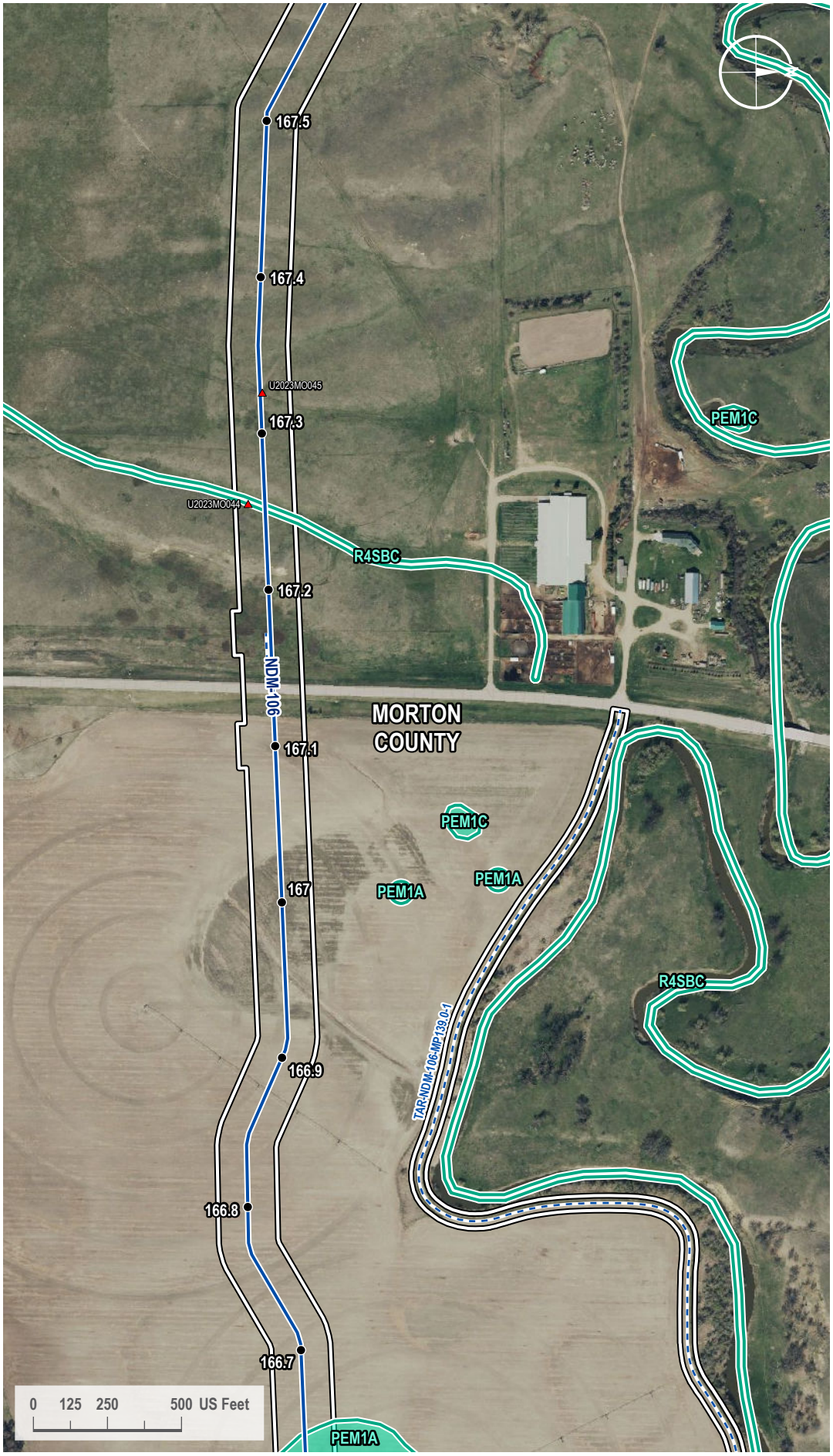

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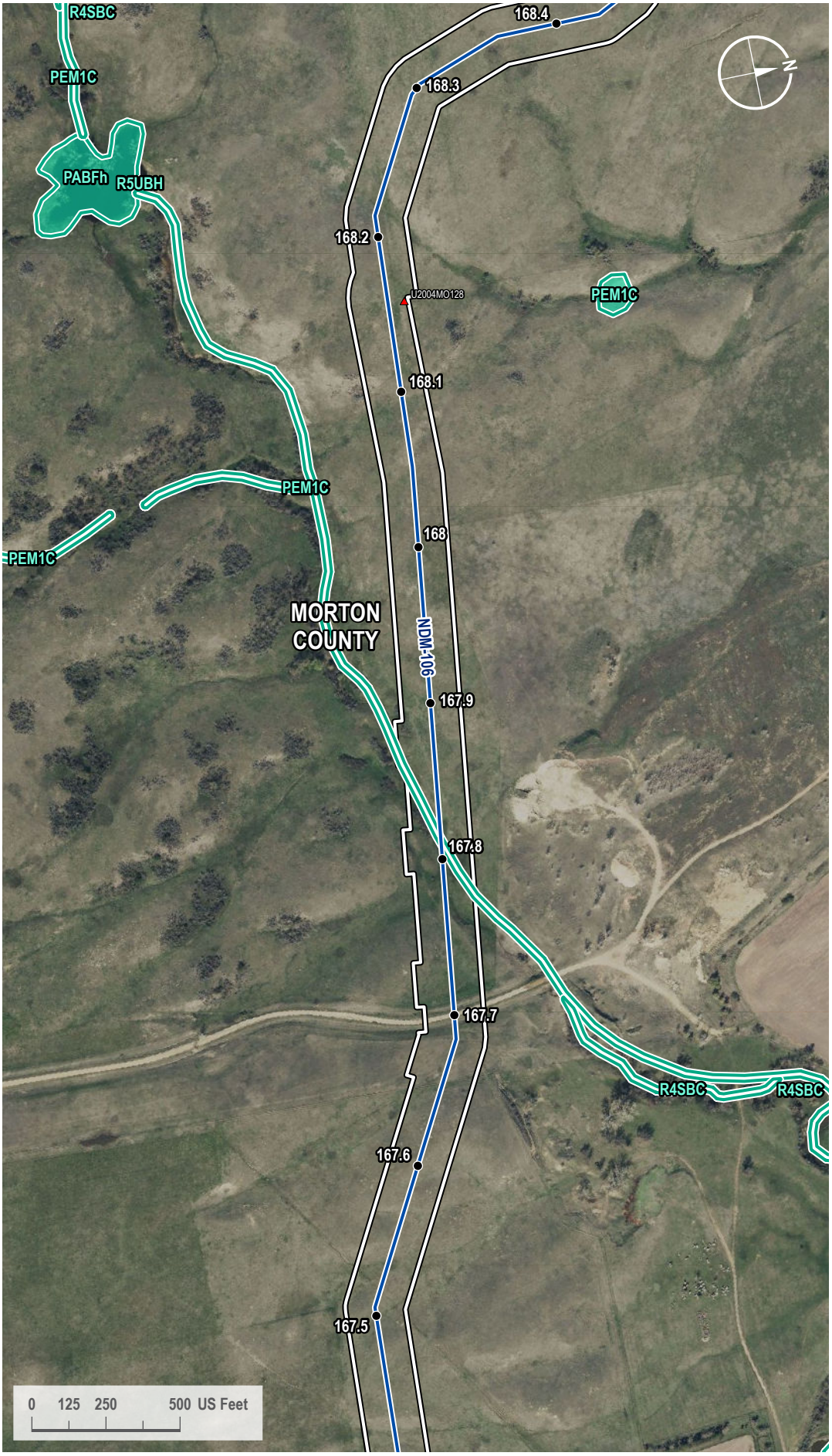

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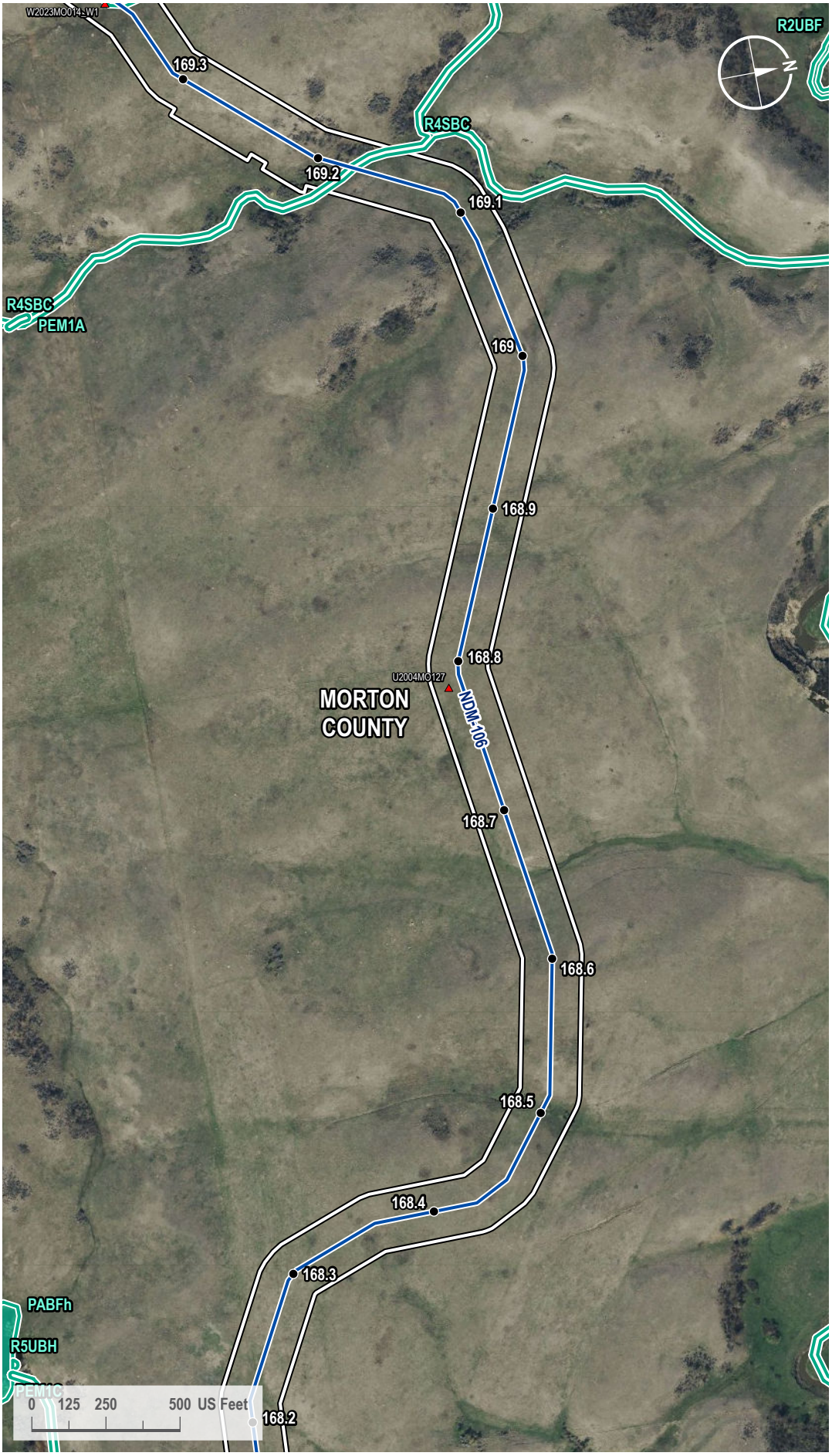

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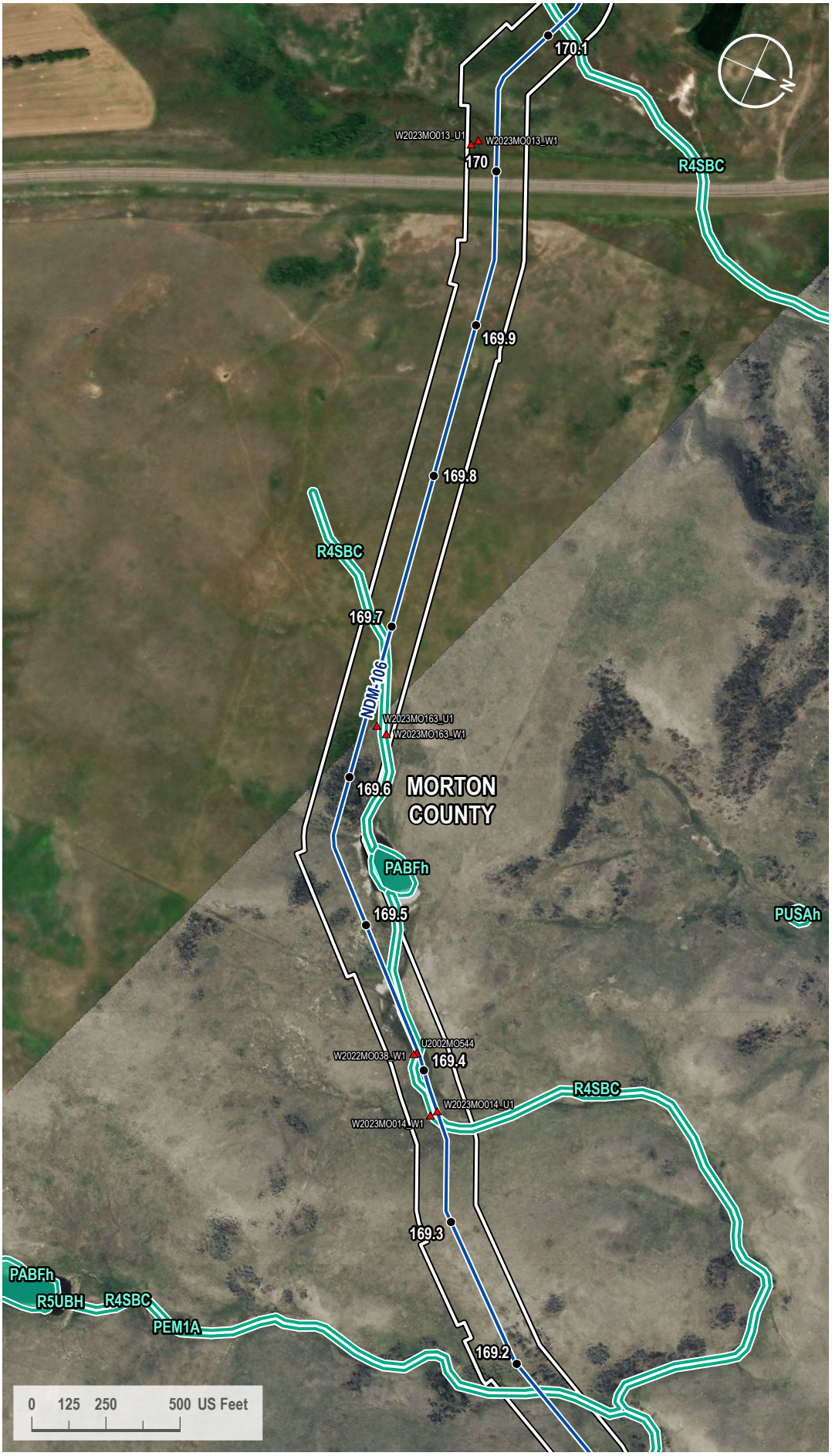

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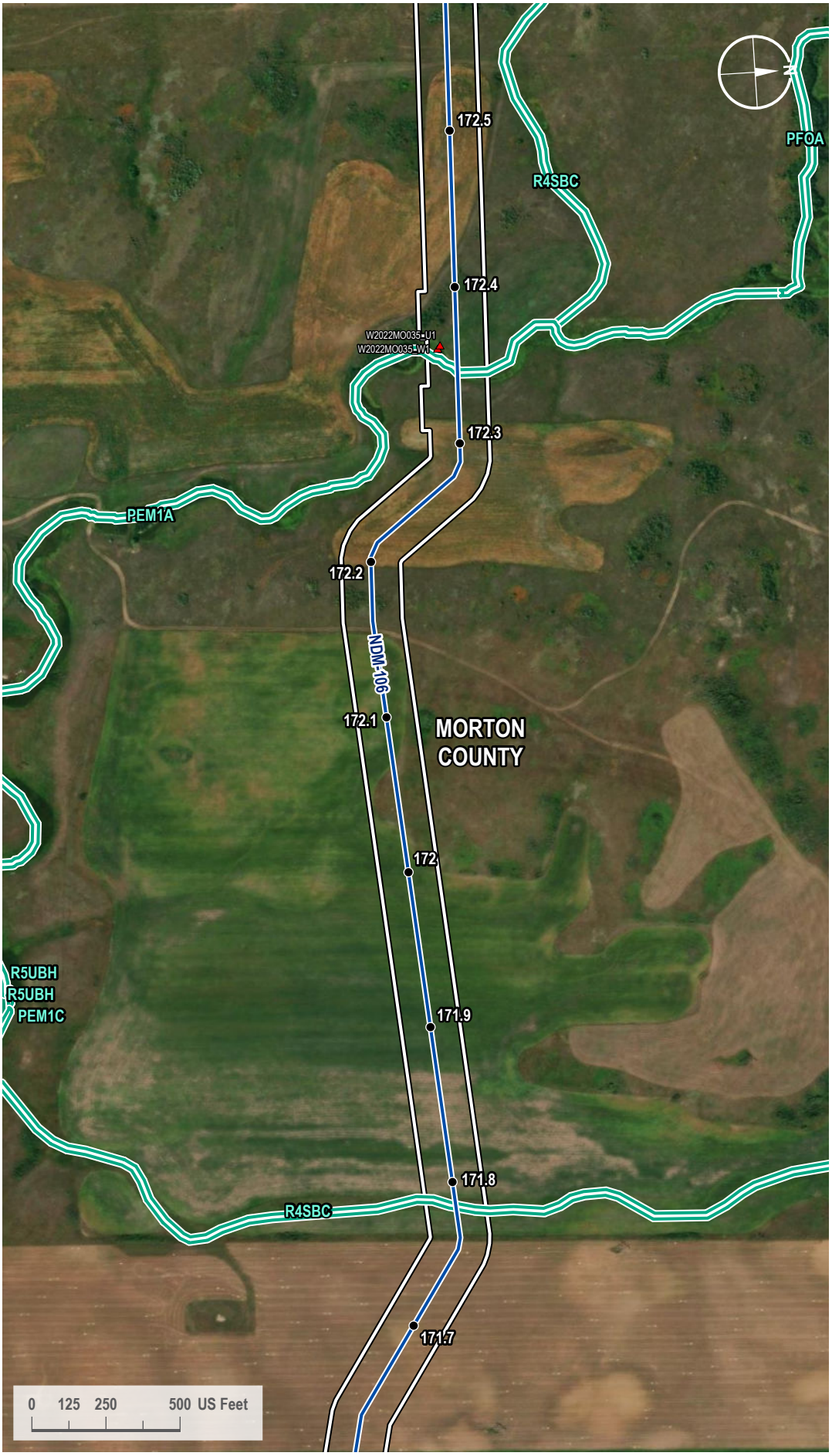

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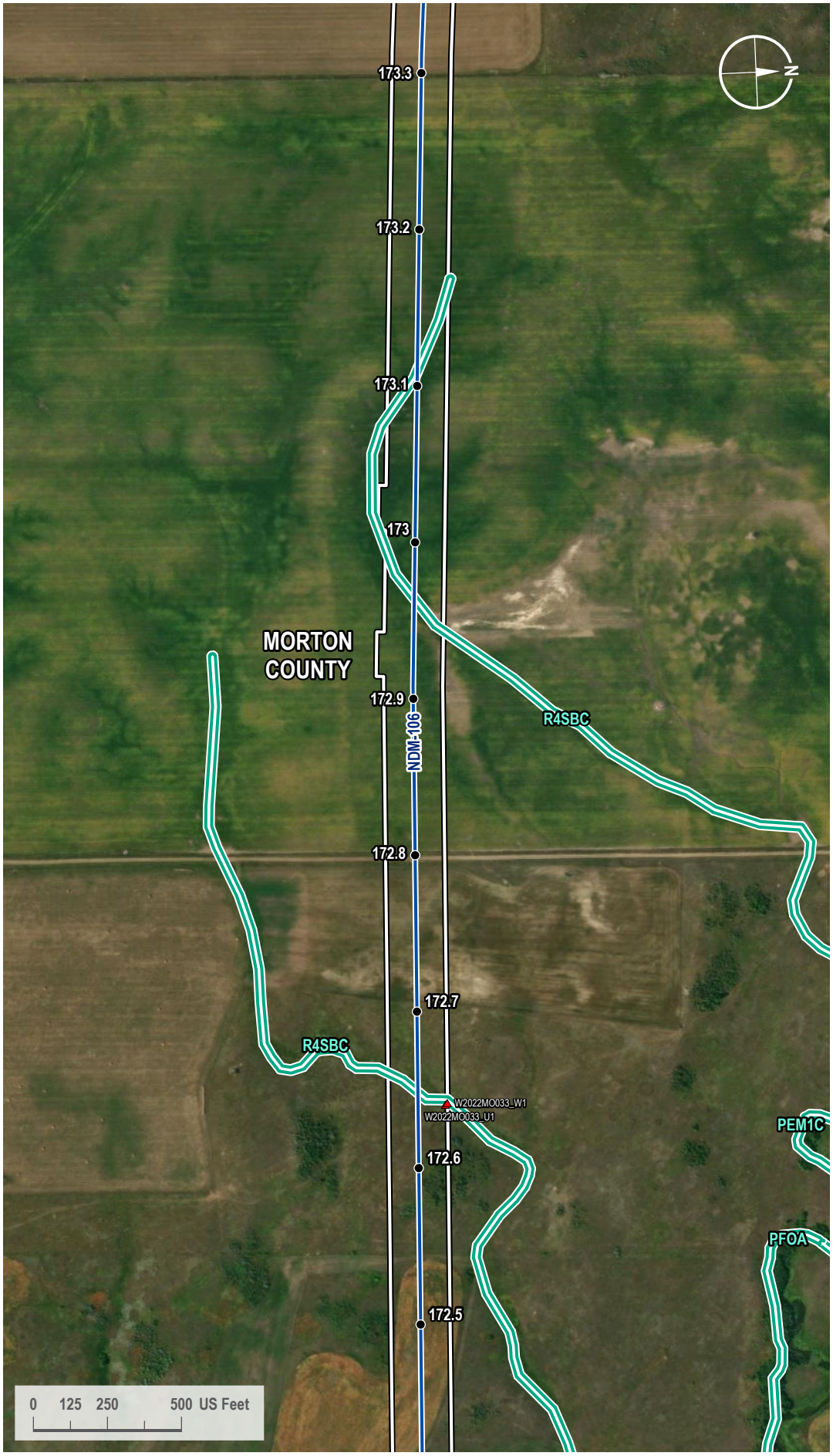

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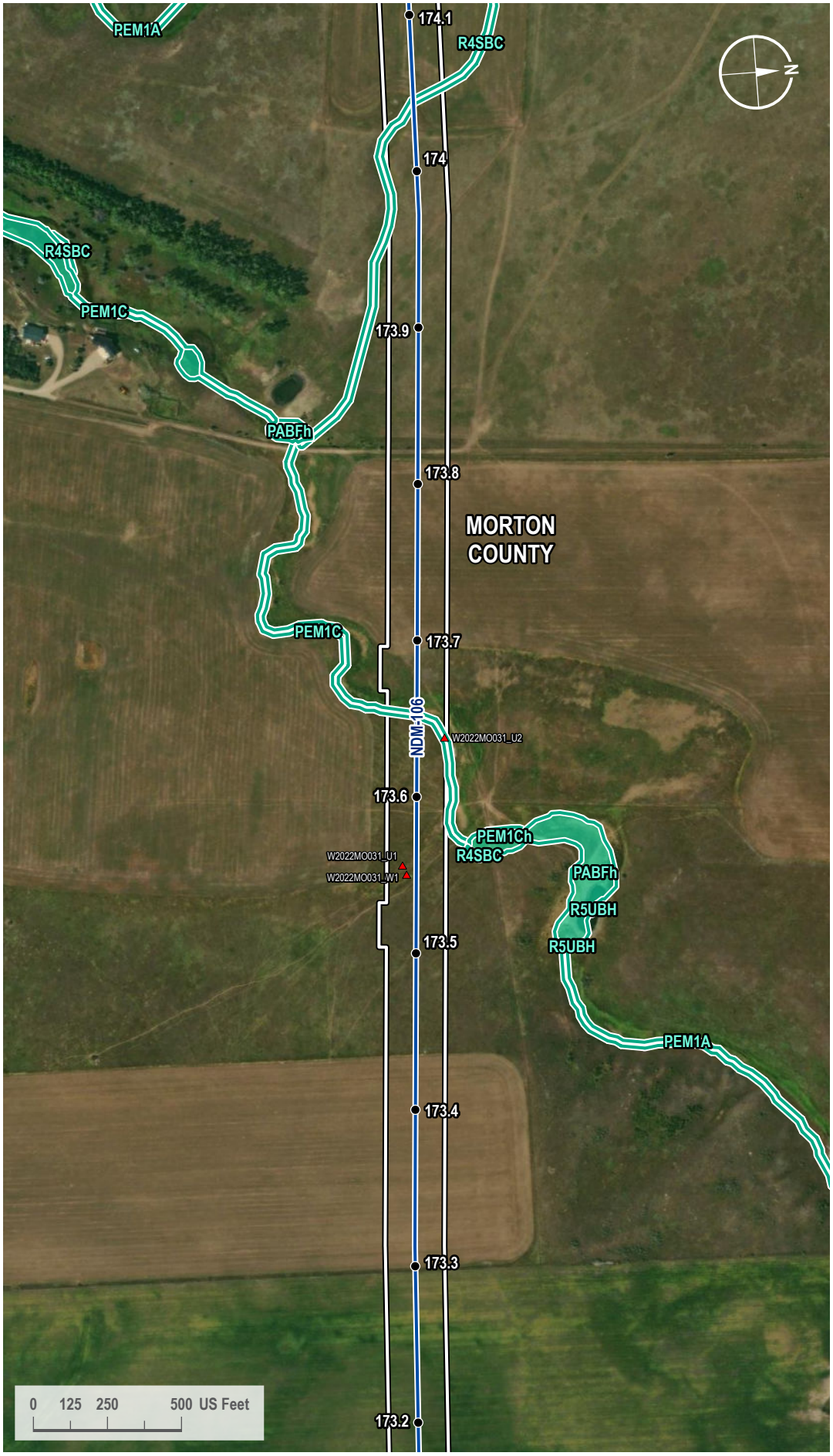

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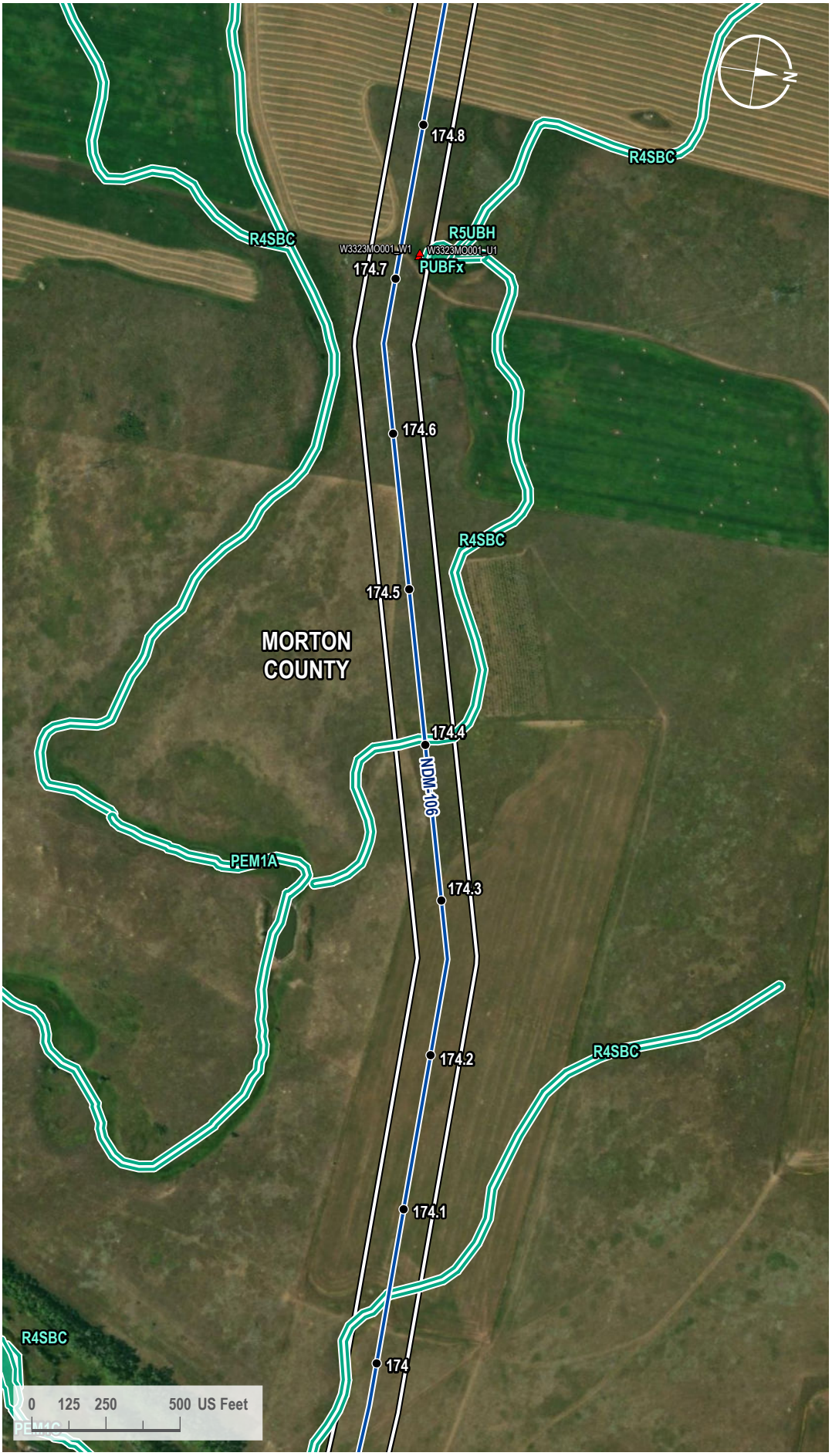

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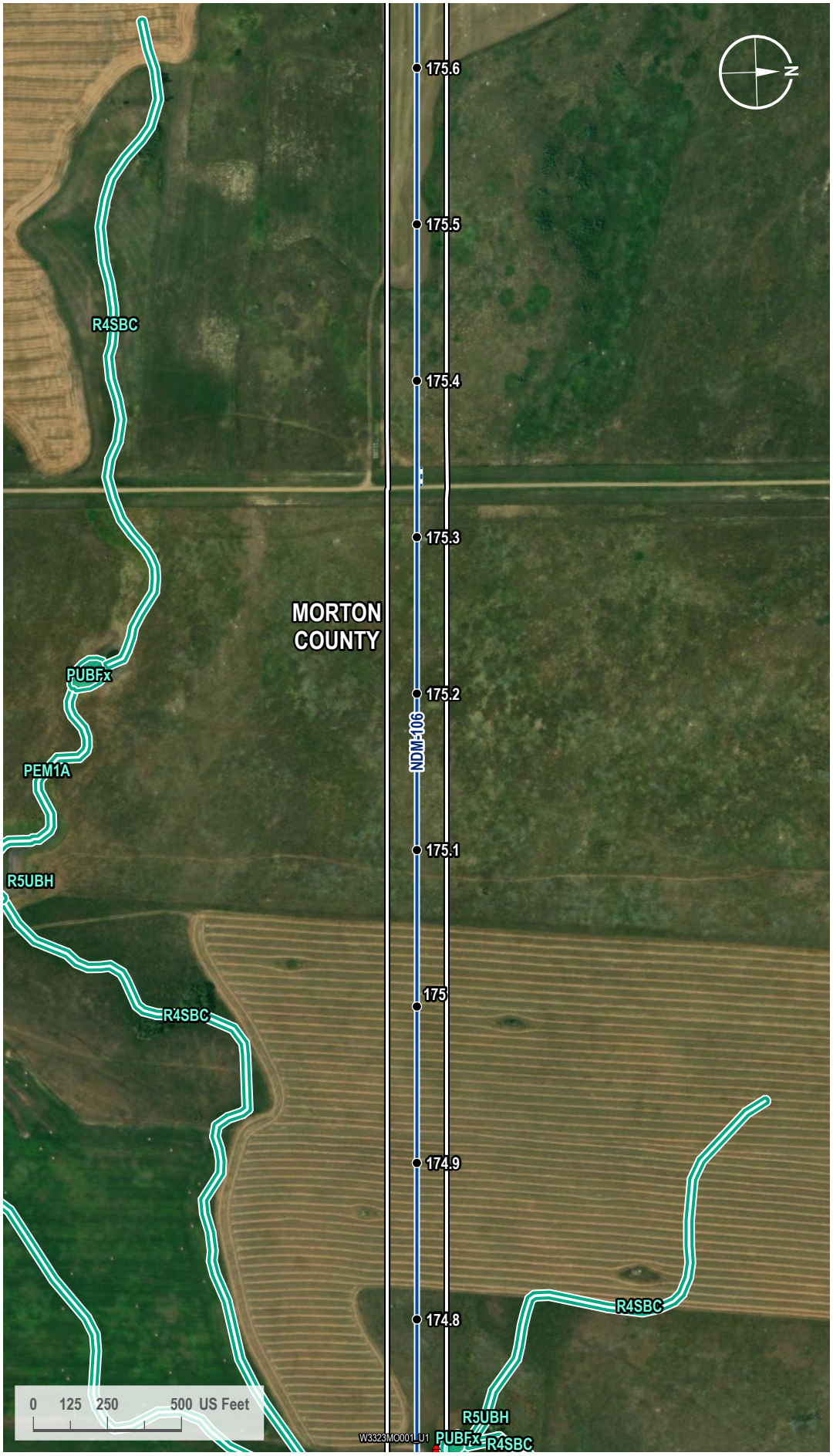

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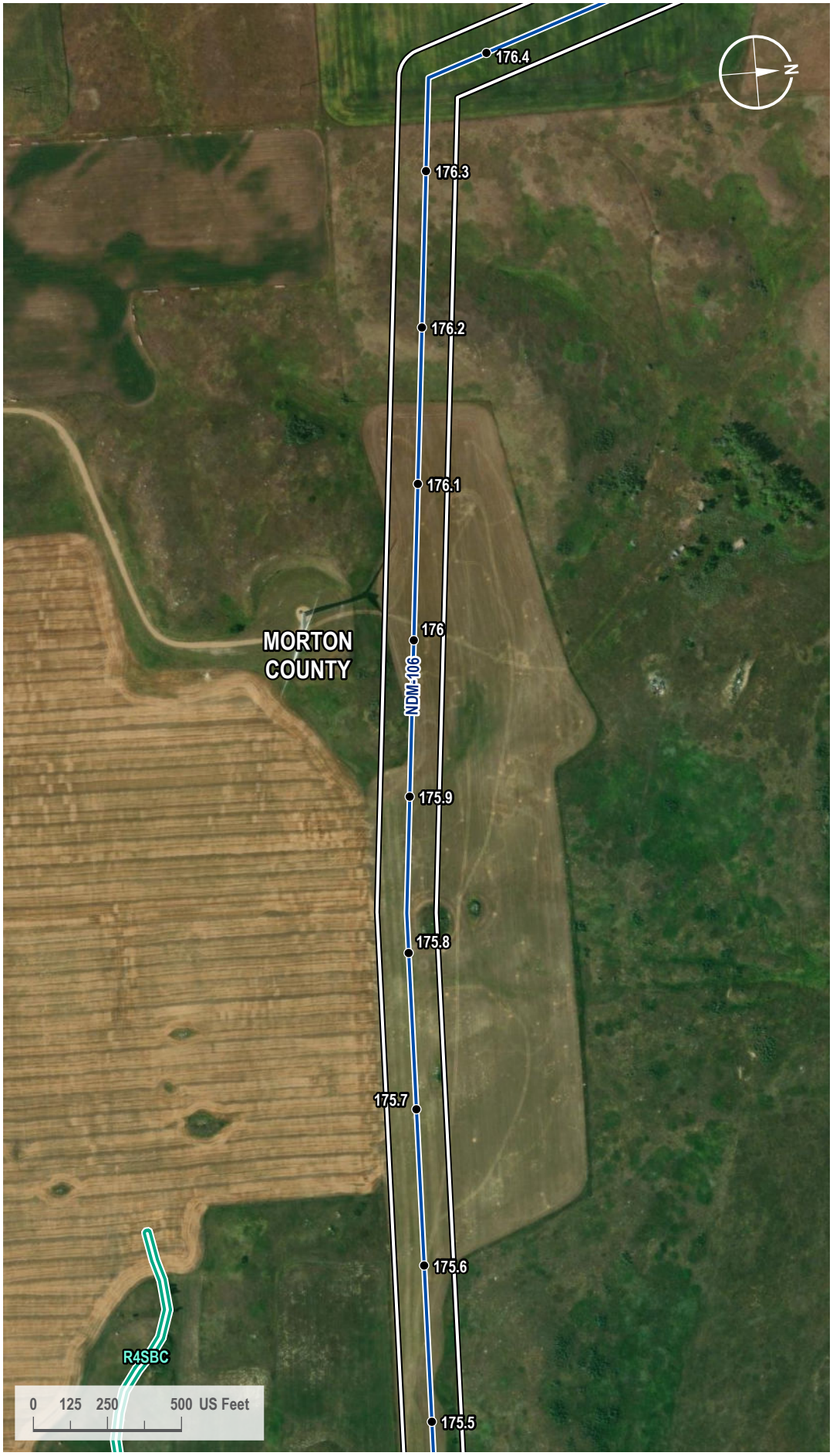

VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
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- 200-foot Siting Corridor
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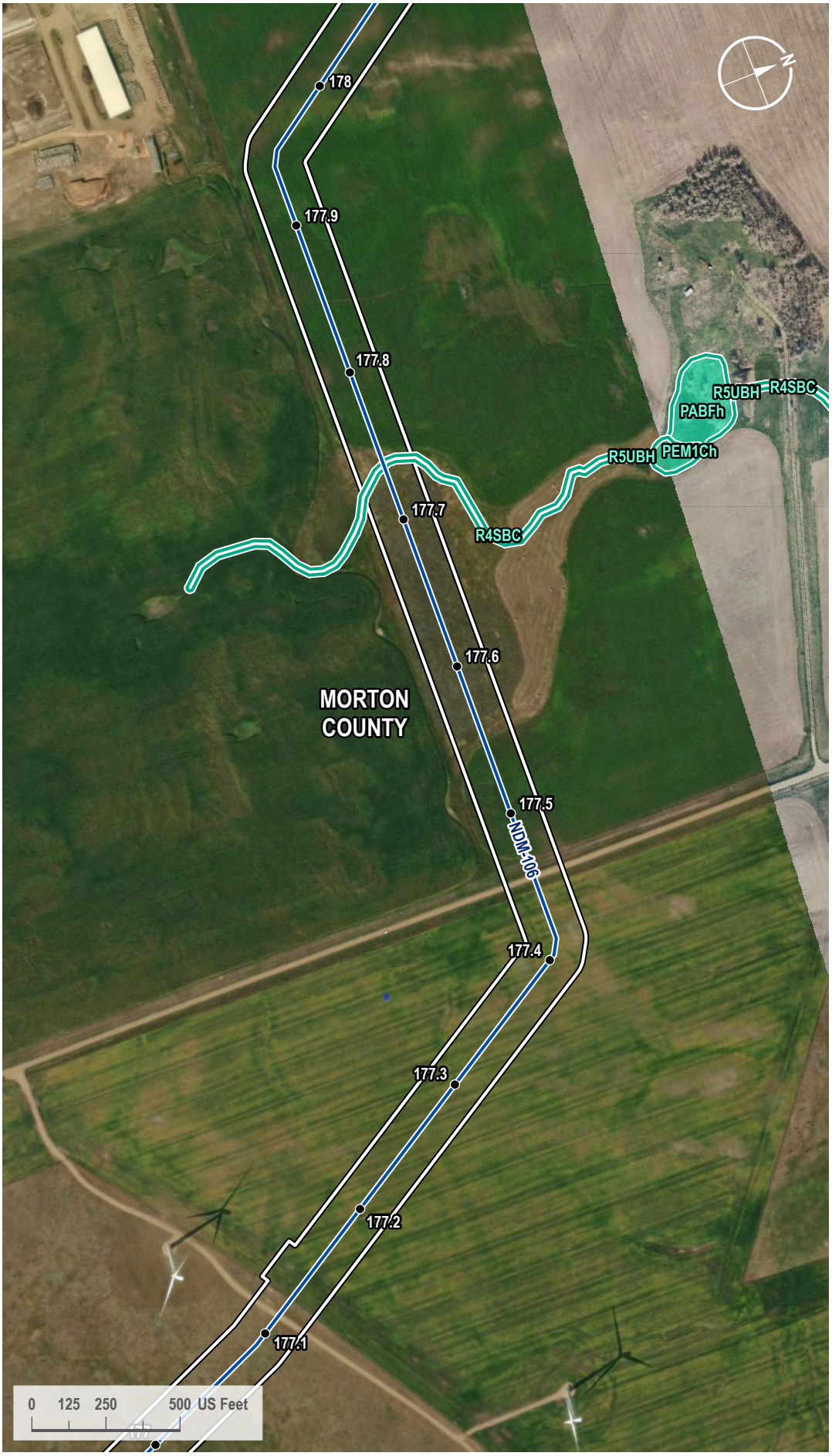

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LEGEND

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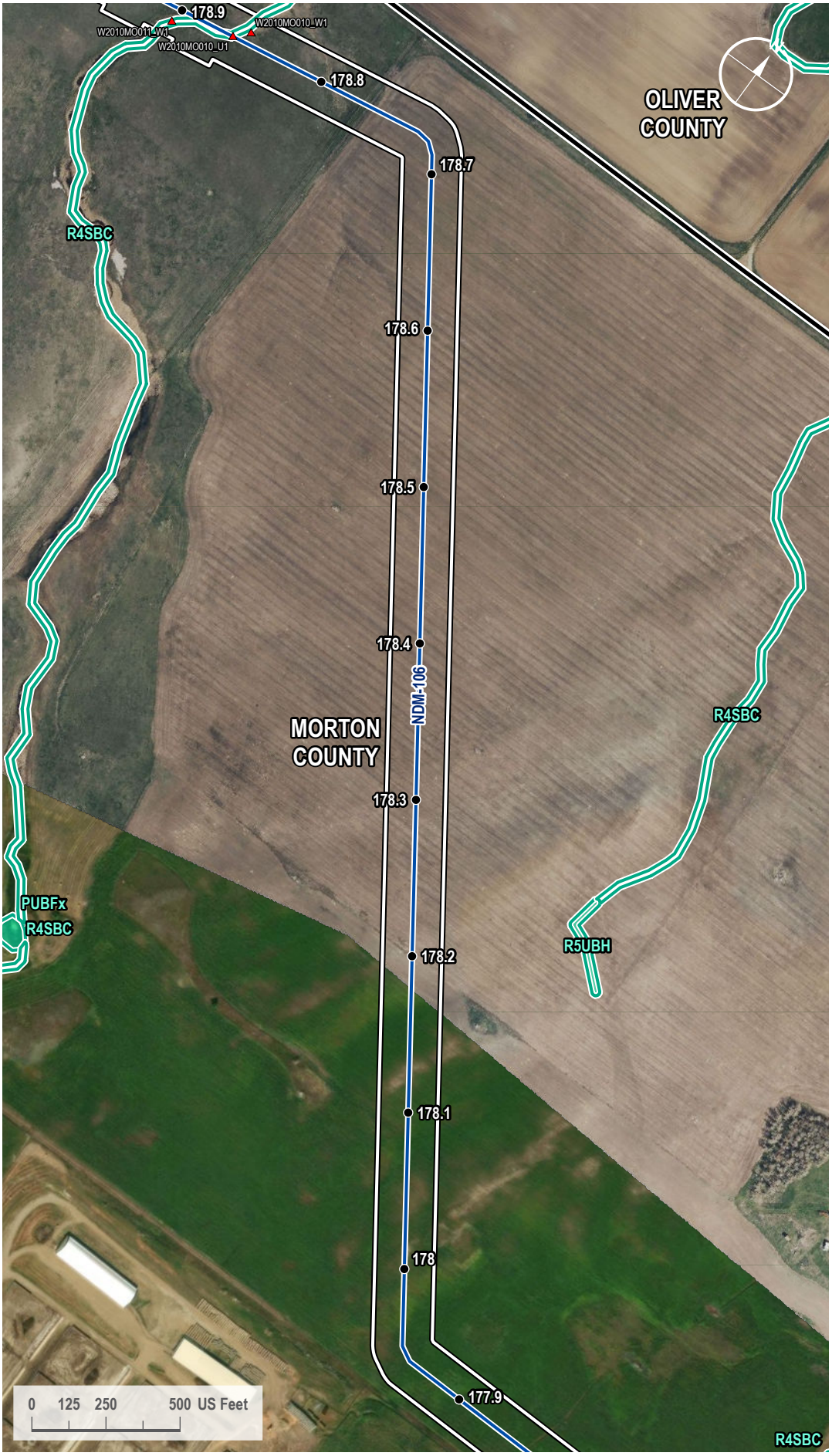

VICINITY MAP



LEGEND

- Milepost
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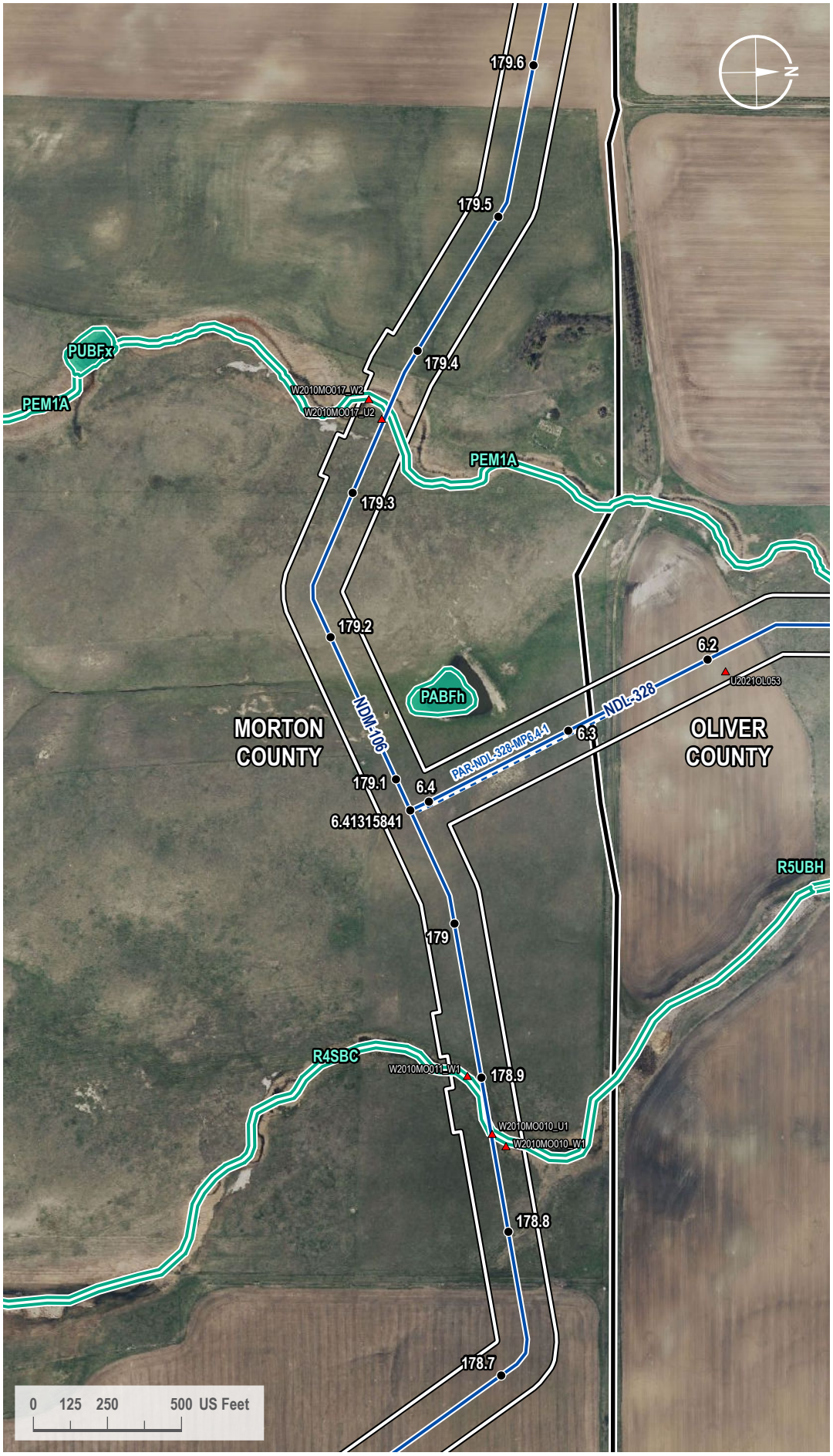

VICINITY MAP



LEGEND

- Milepost
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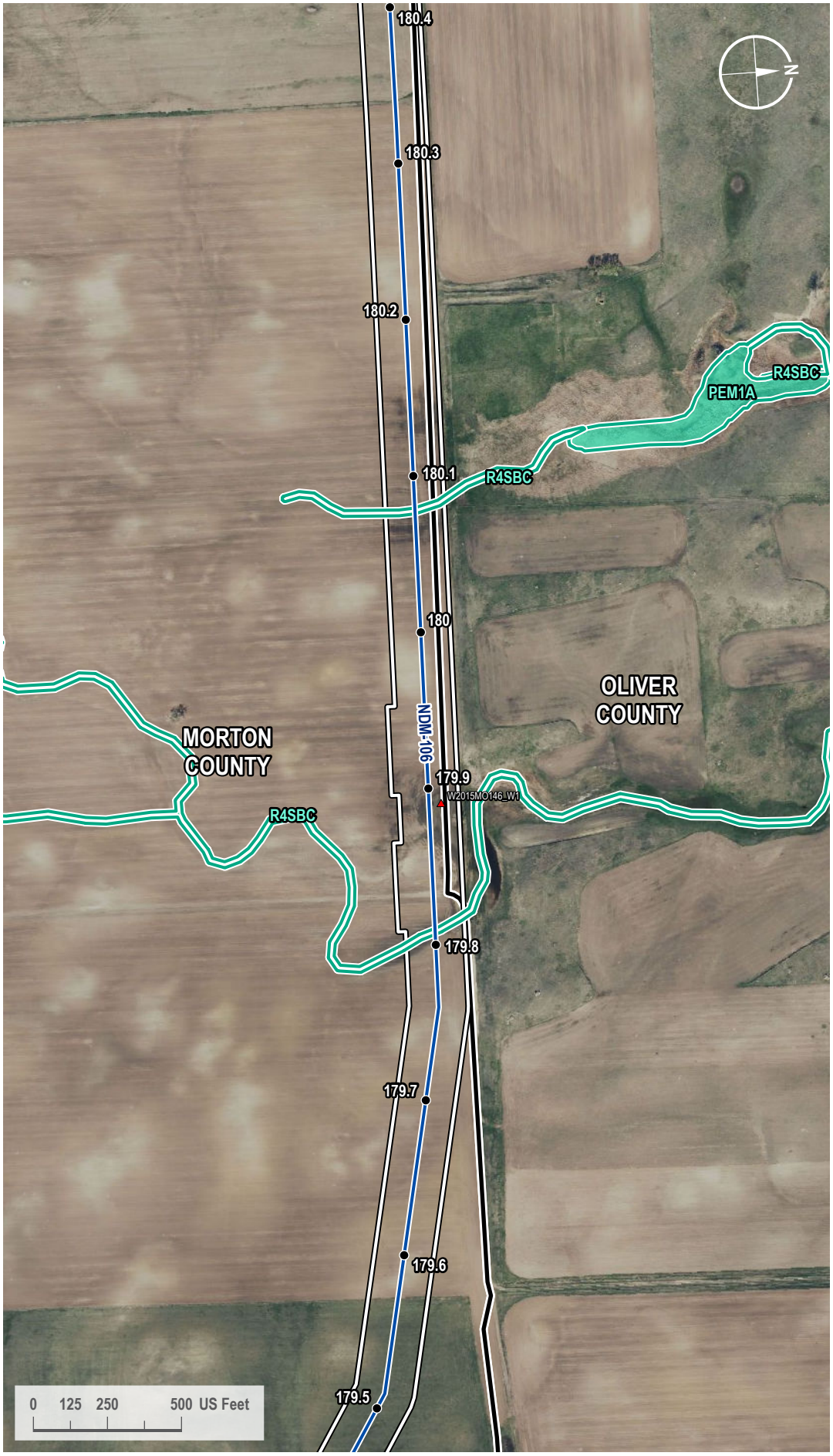

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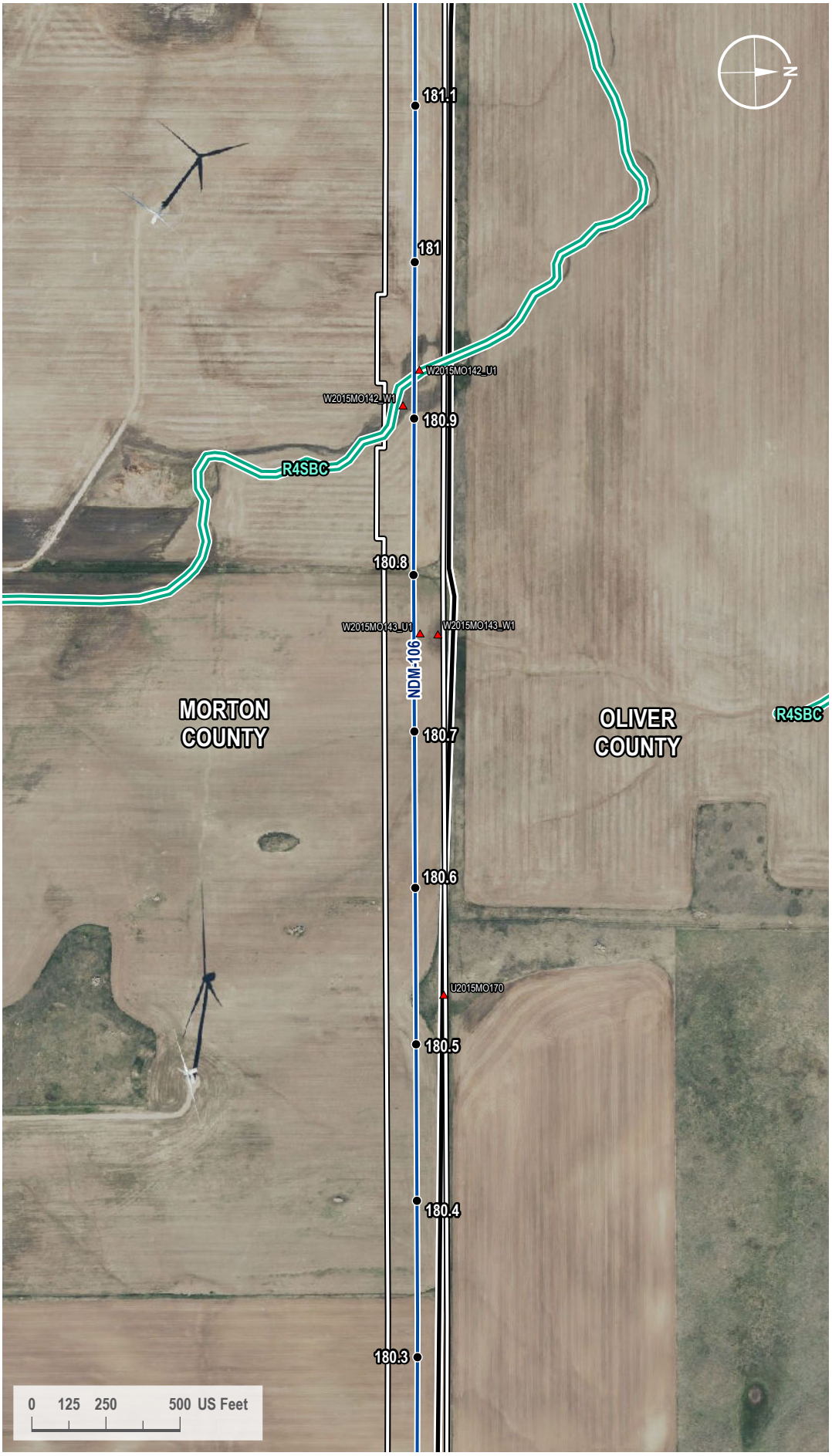

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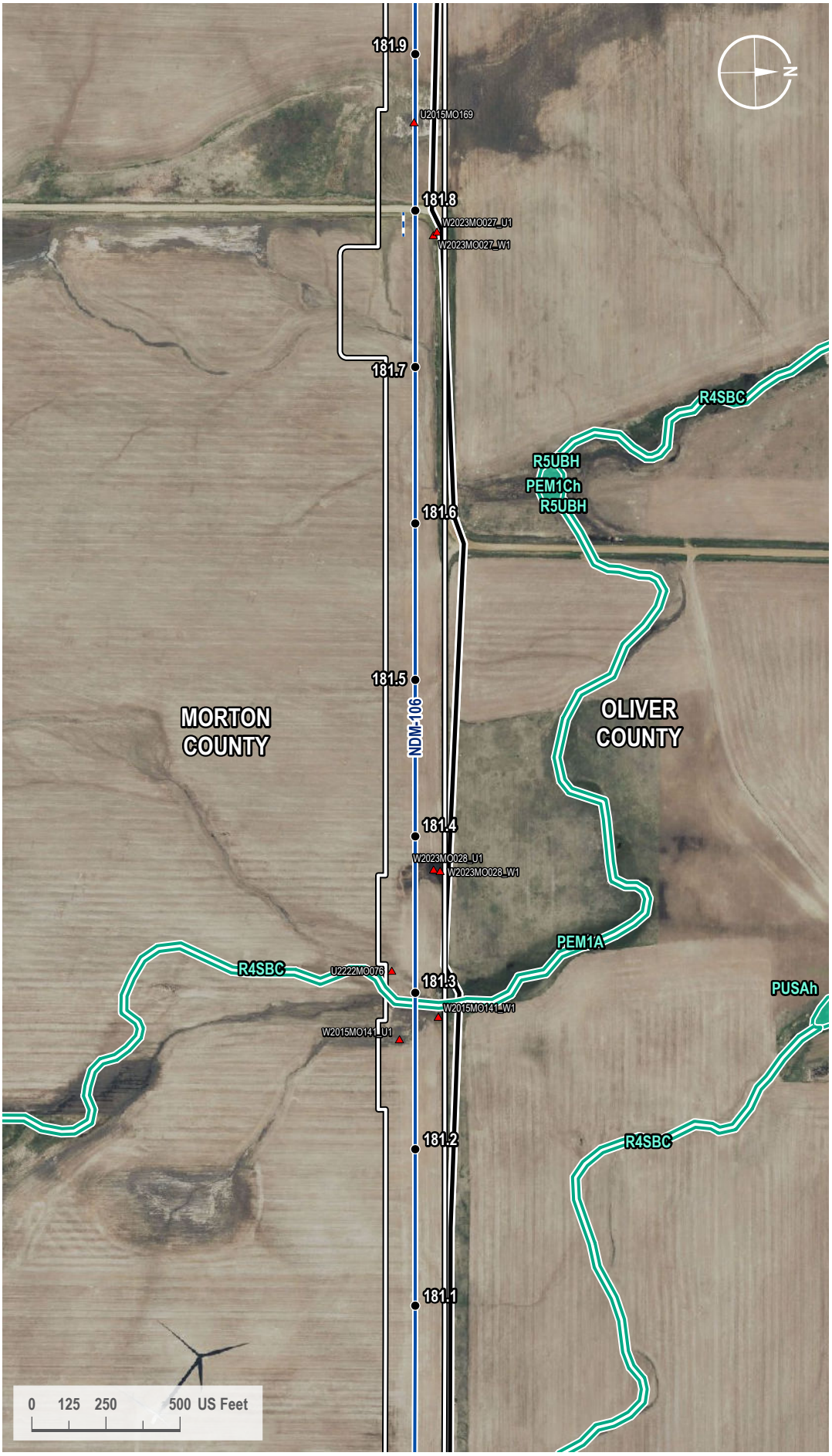

VICINITY MAP



LEGEND

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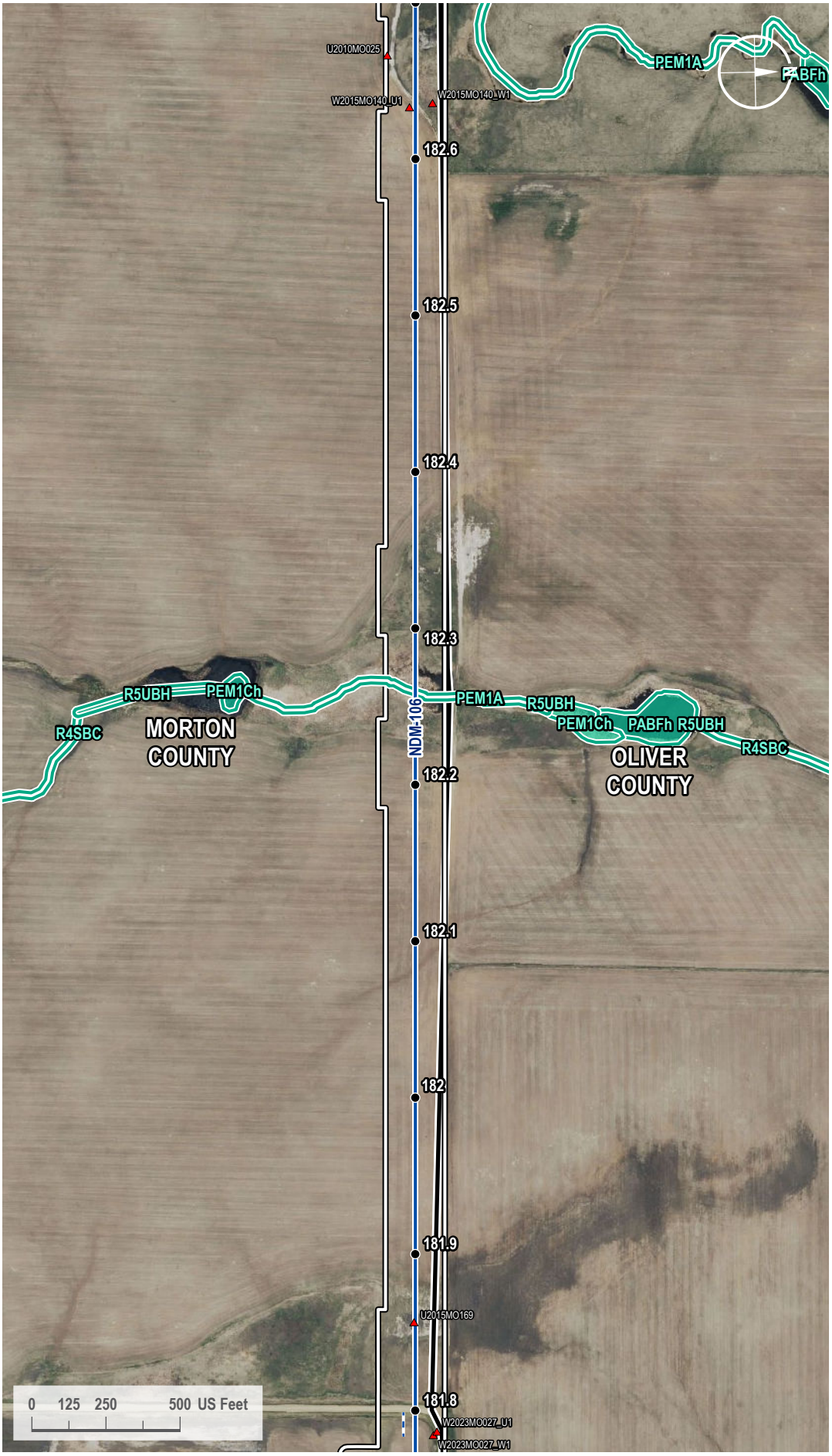

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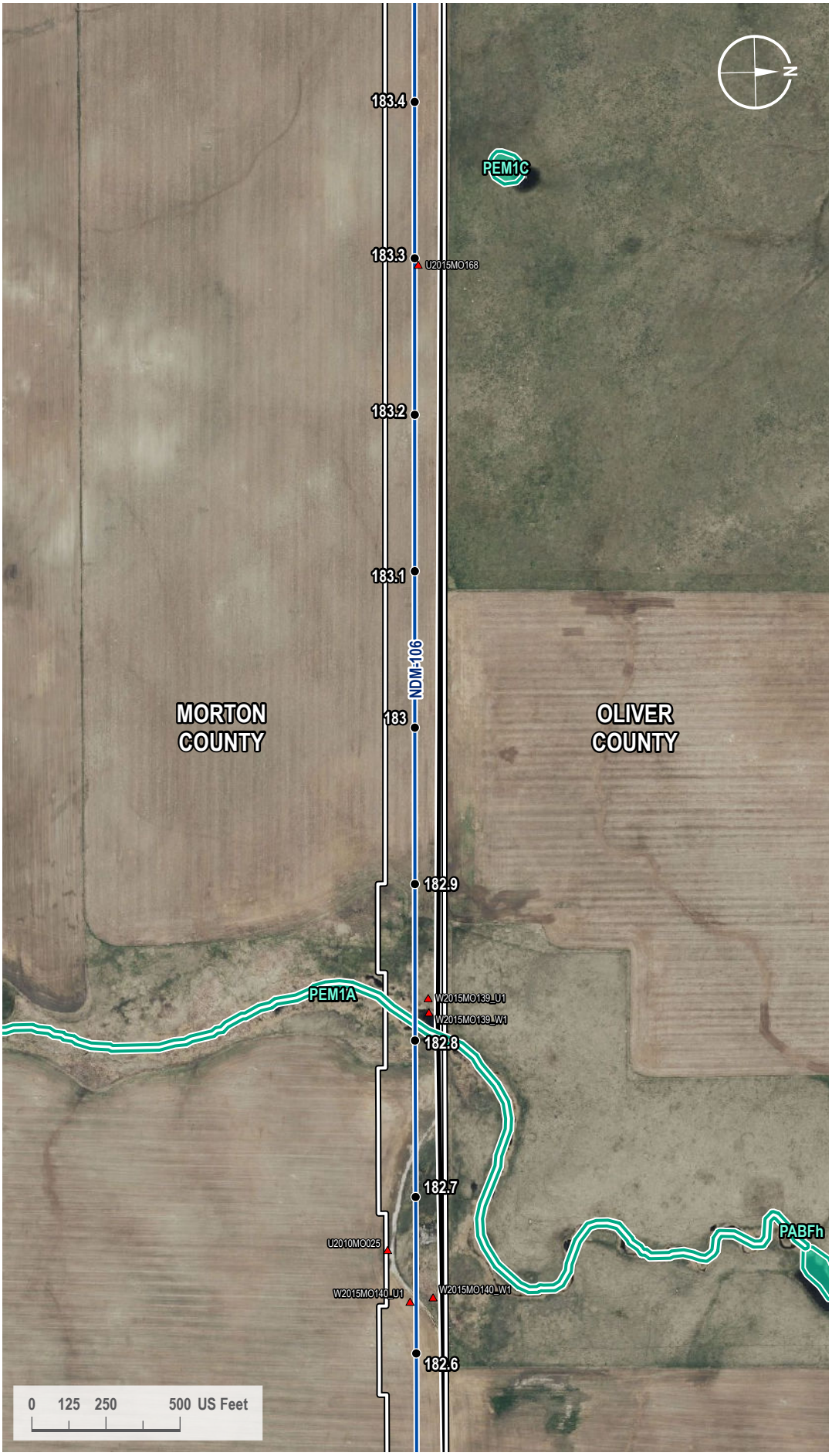

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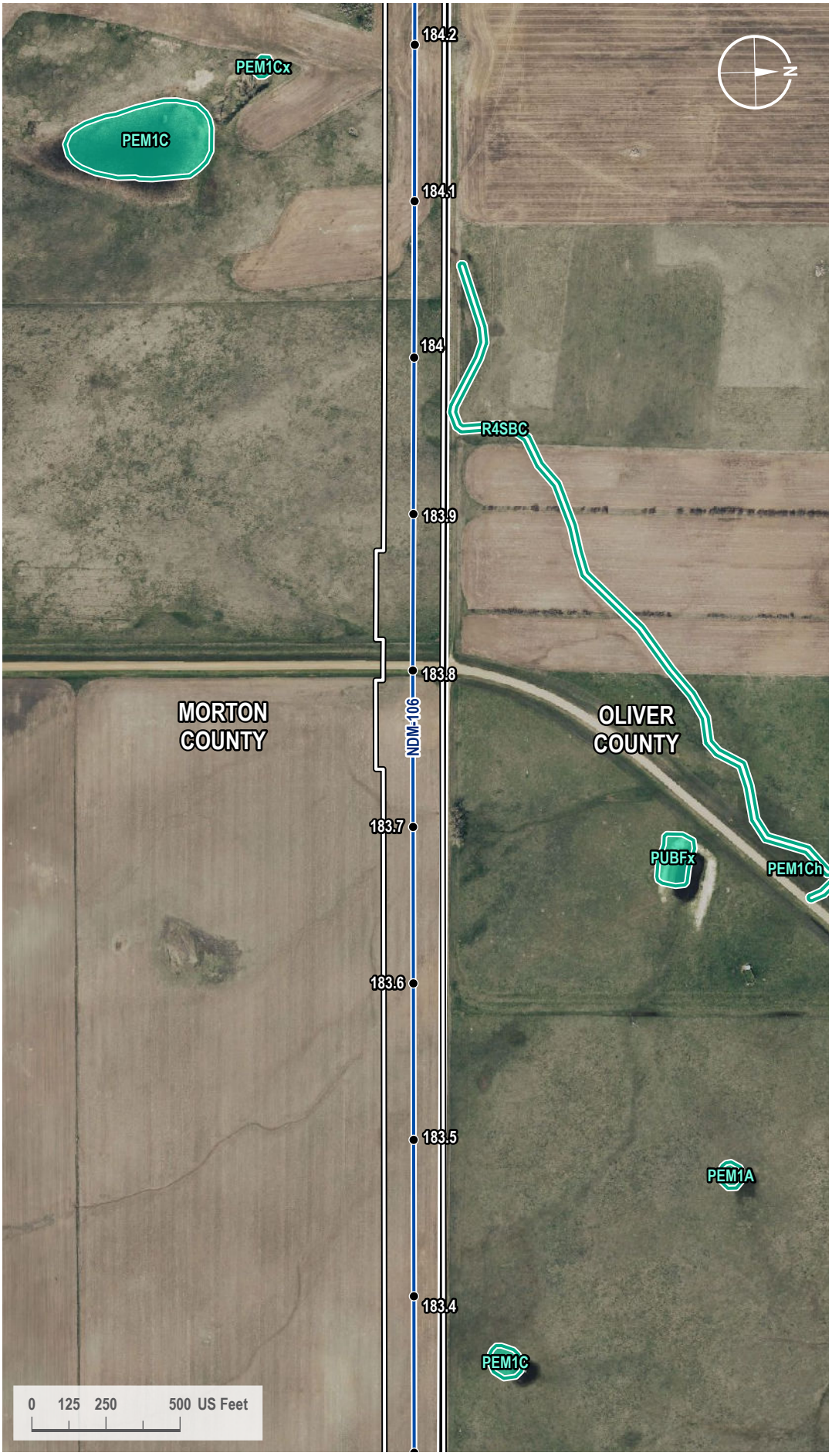

VICINITY MAP



LEGEND

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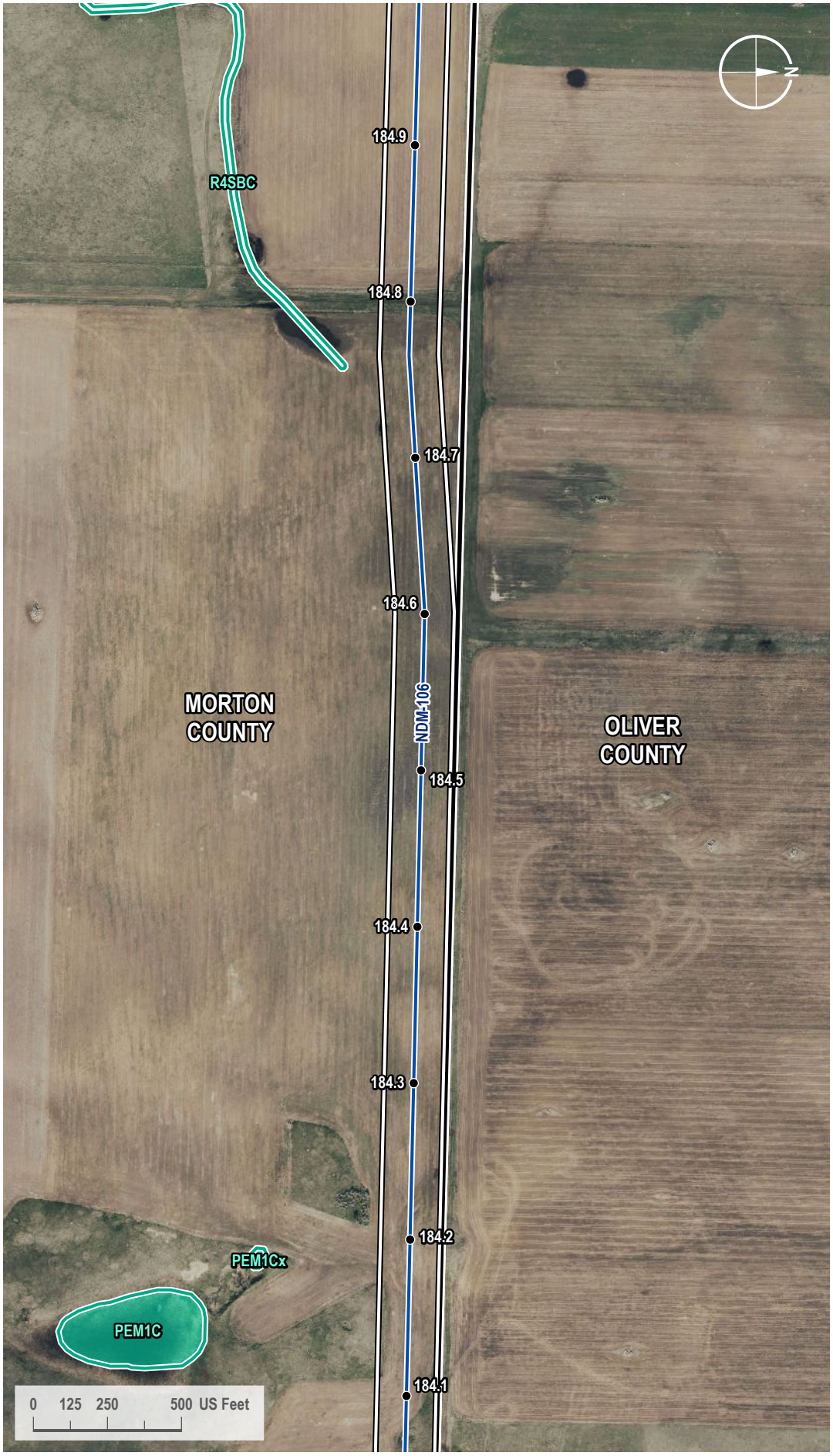

VICINITY MAP



LEGEND

- Milepost
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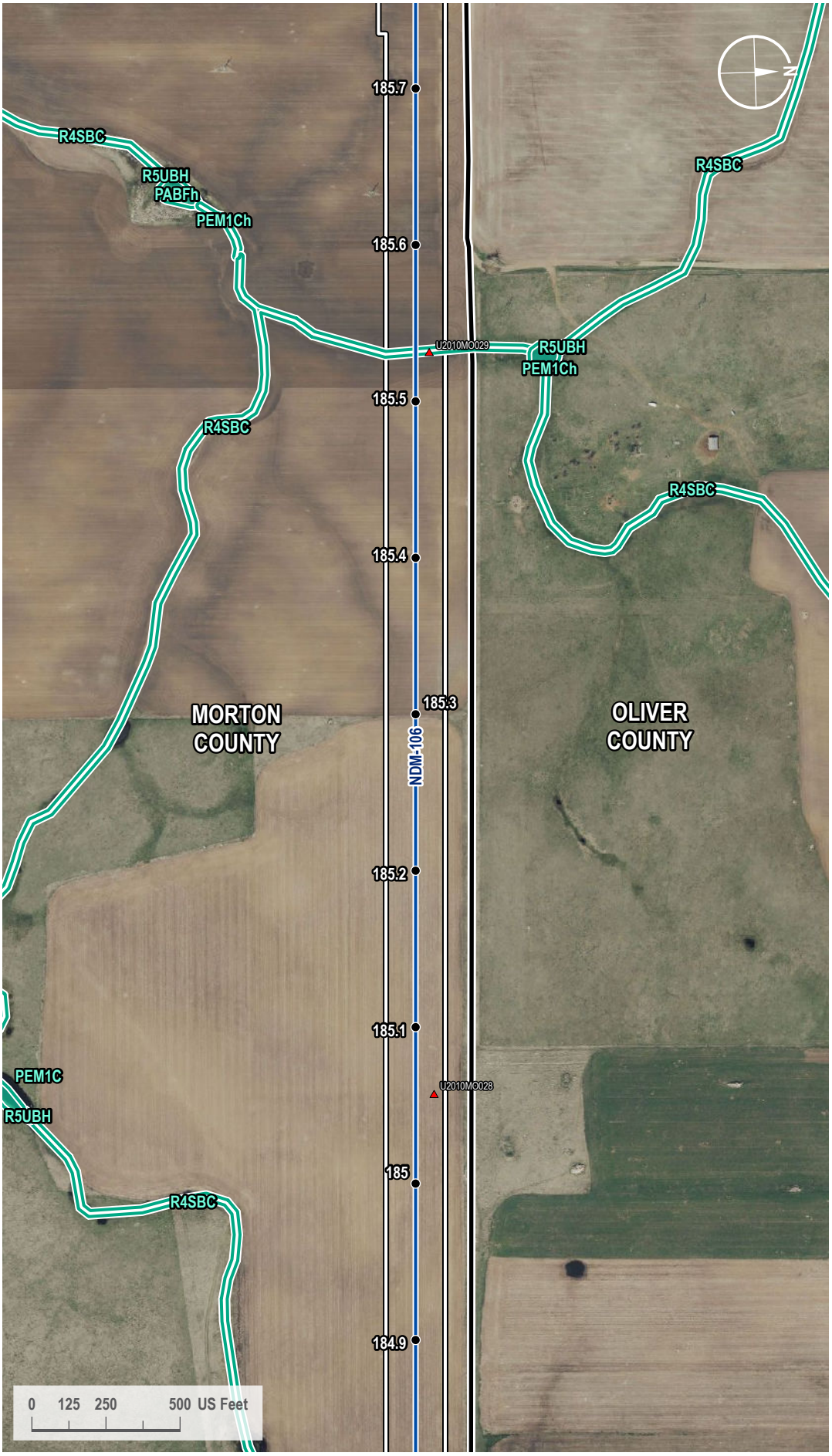

VICINITY MAP



LEGEND

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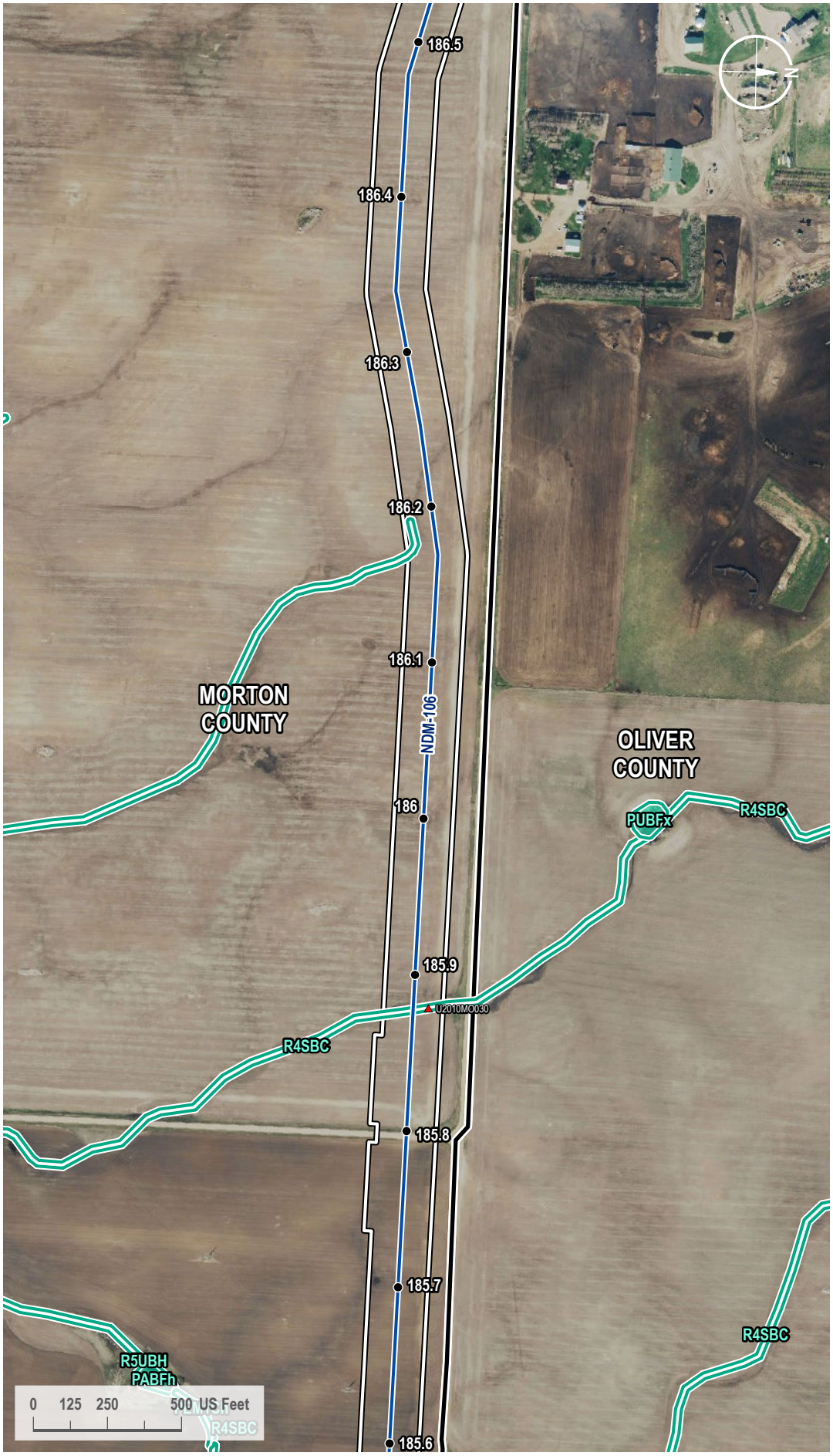

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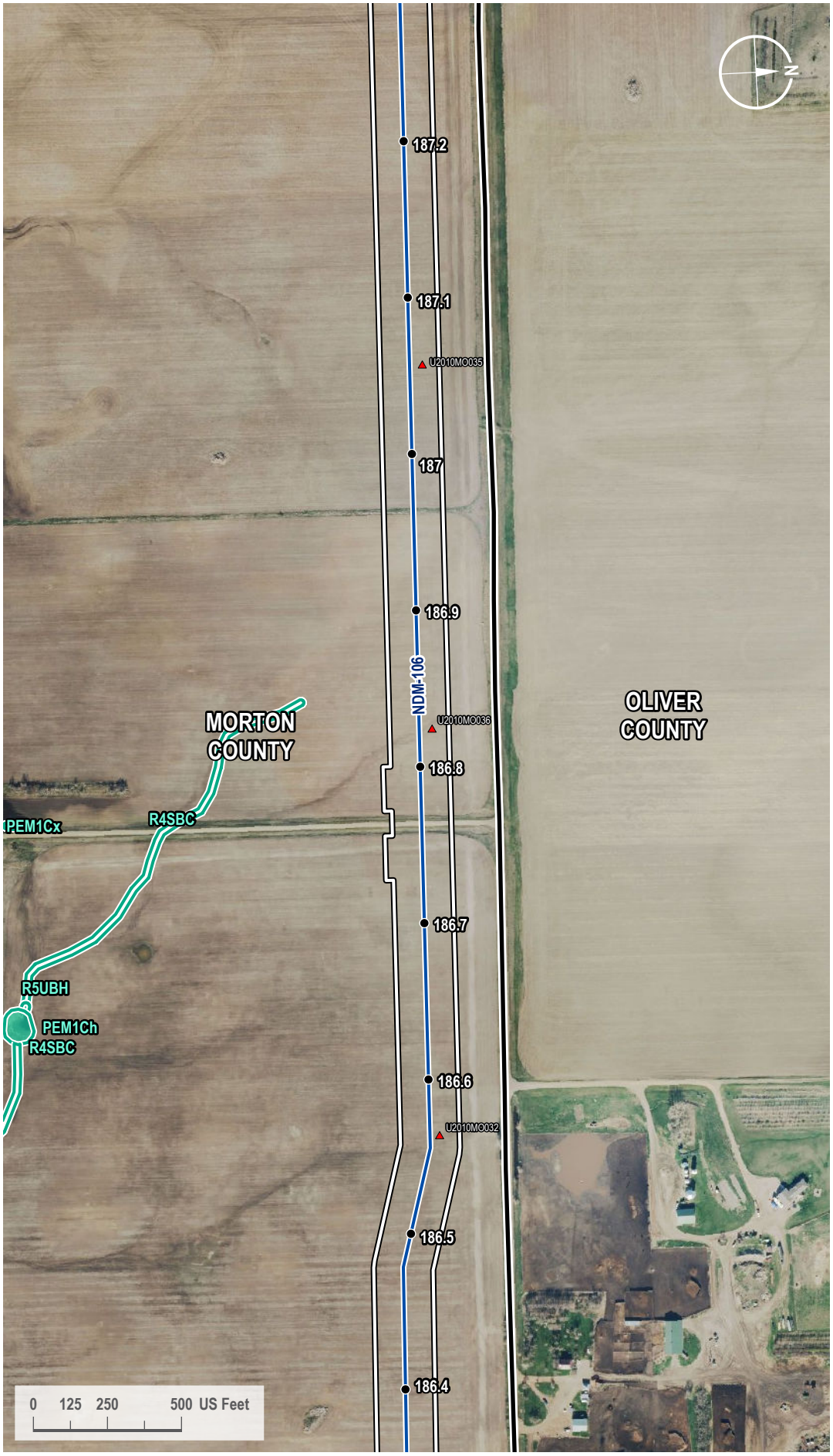

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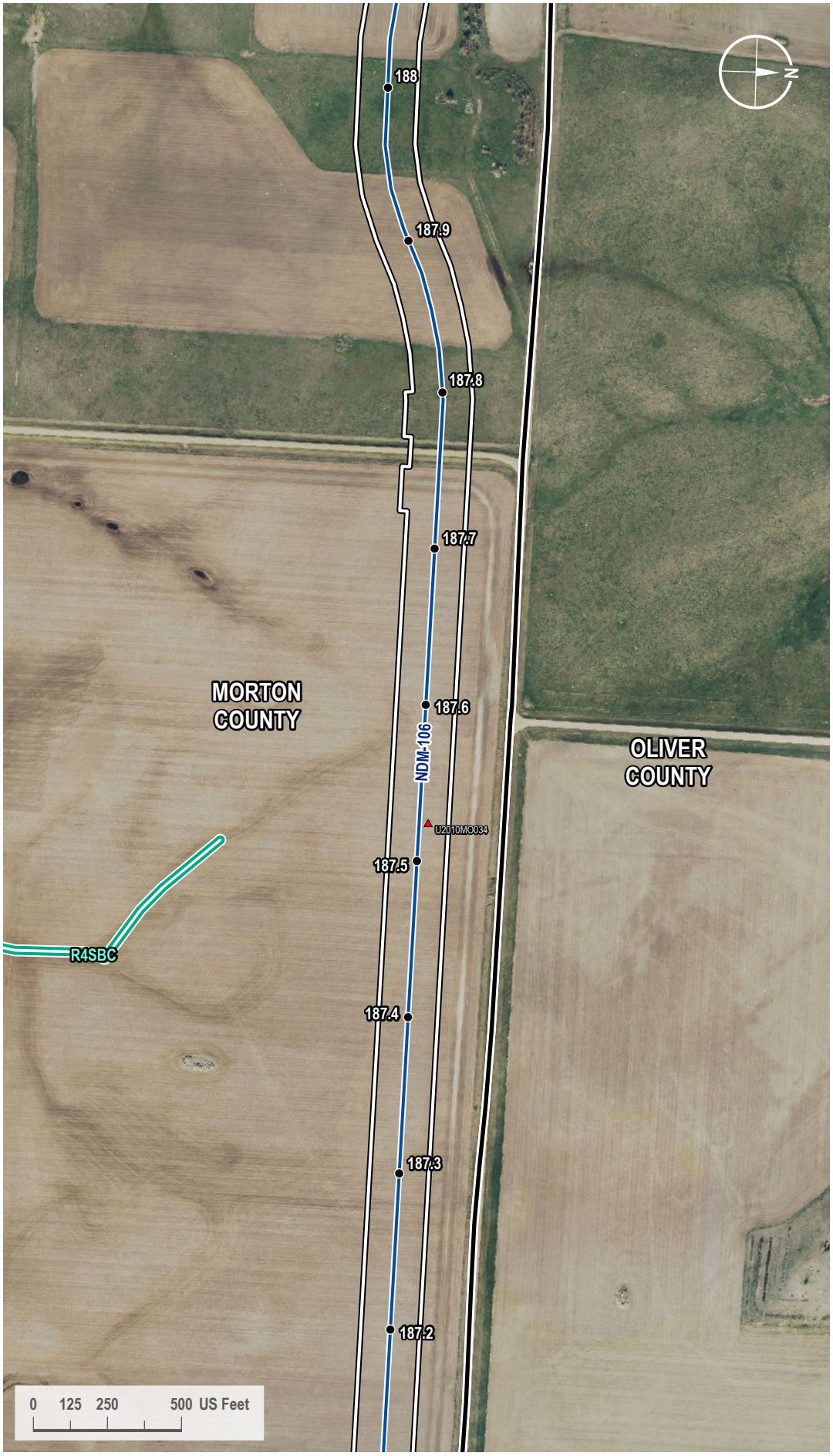

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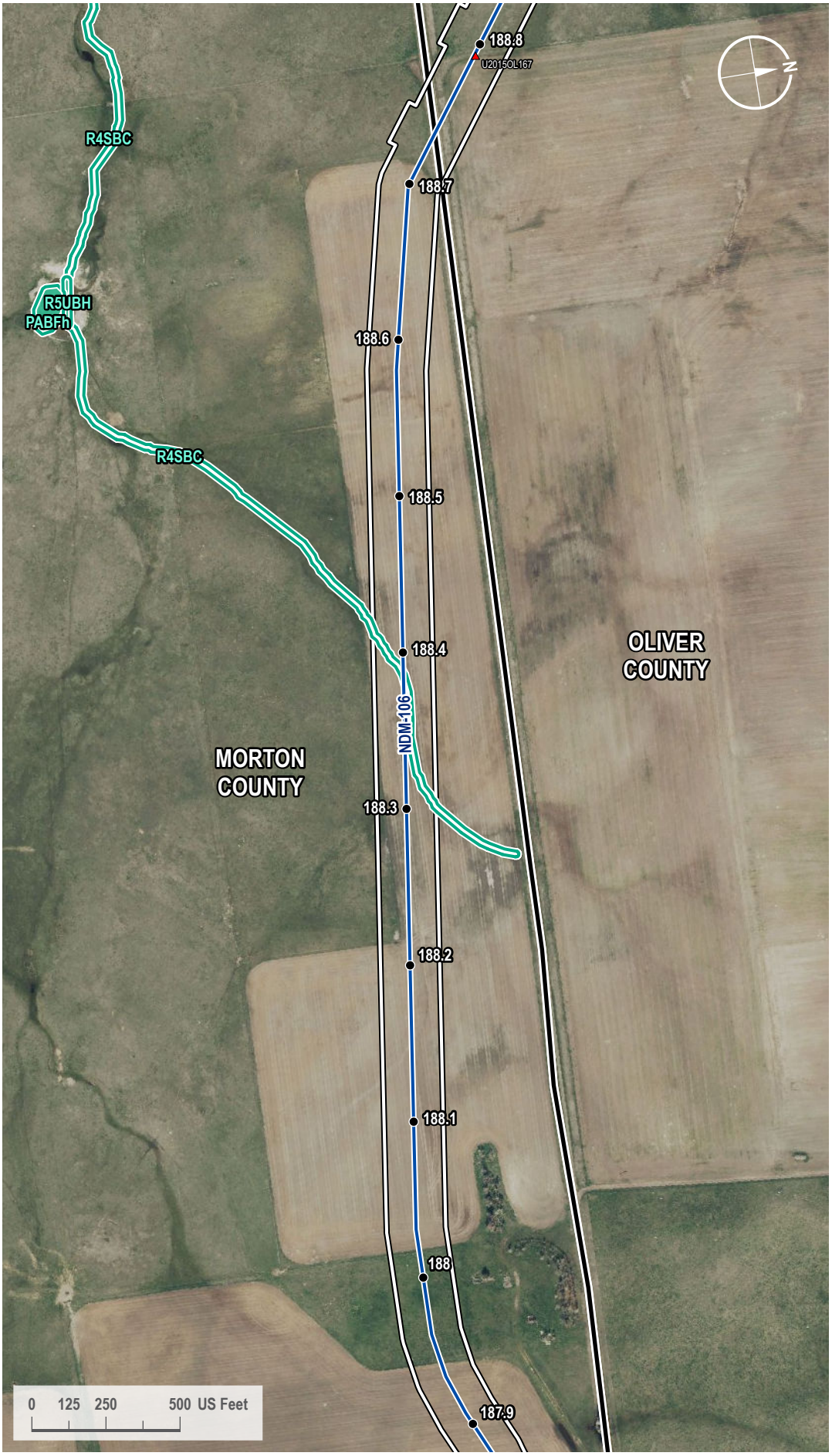

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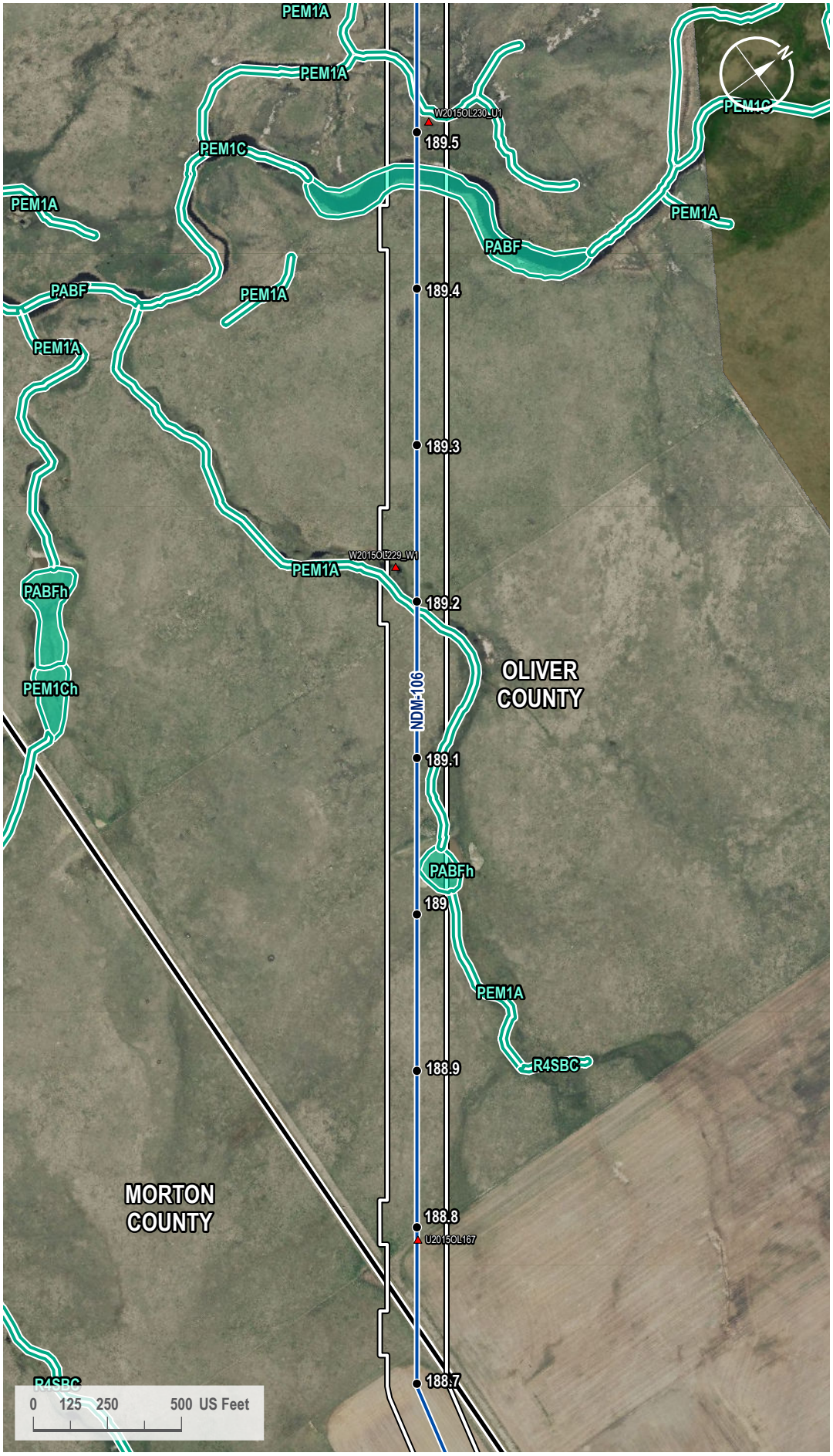

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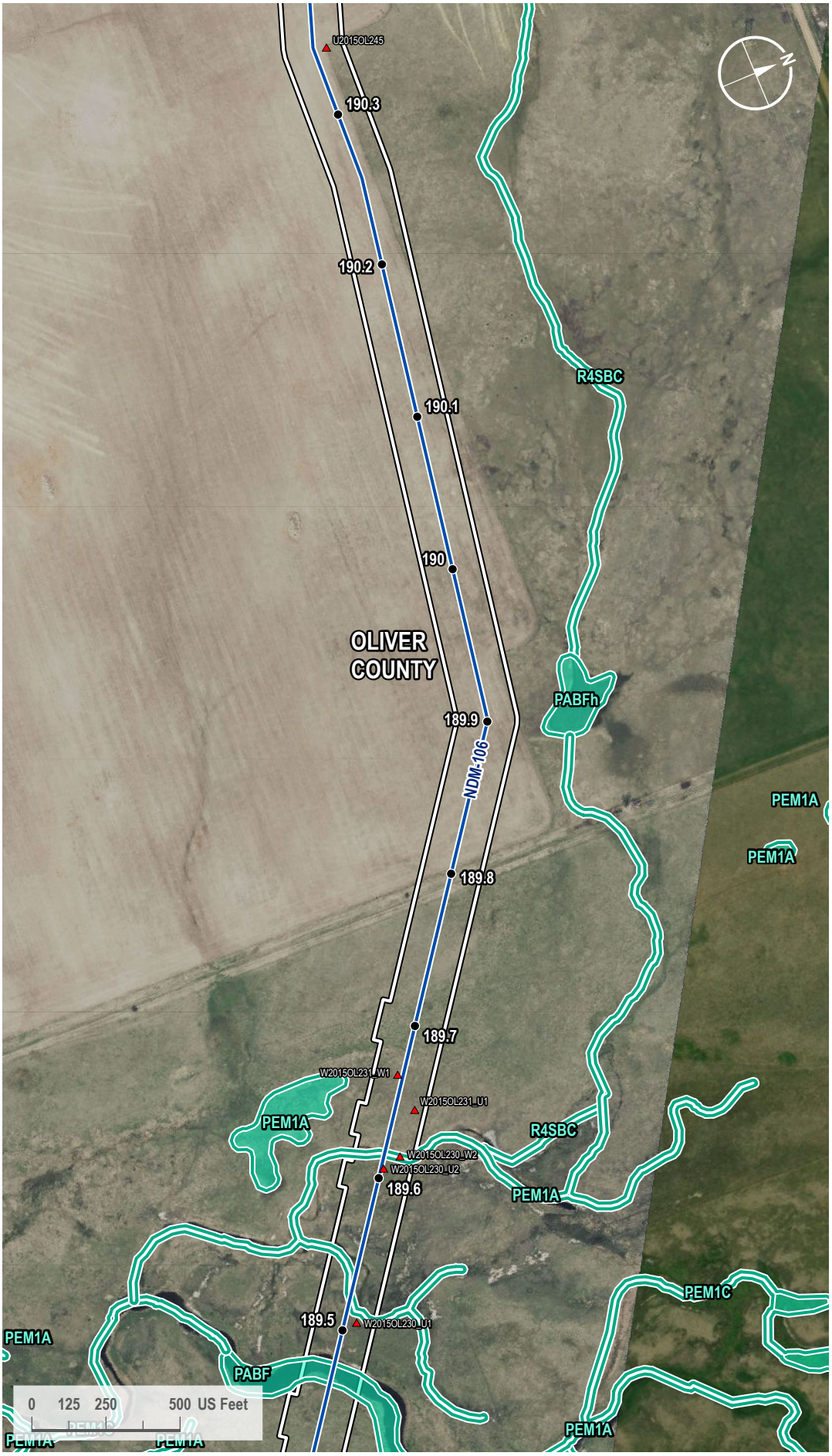

VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

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Figure Title: NWI Map

Figure Number: Appendix A-4

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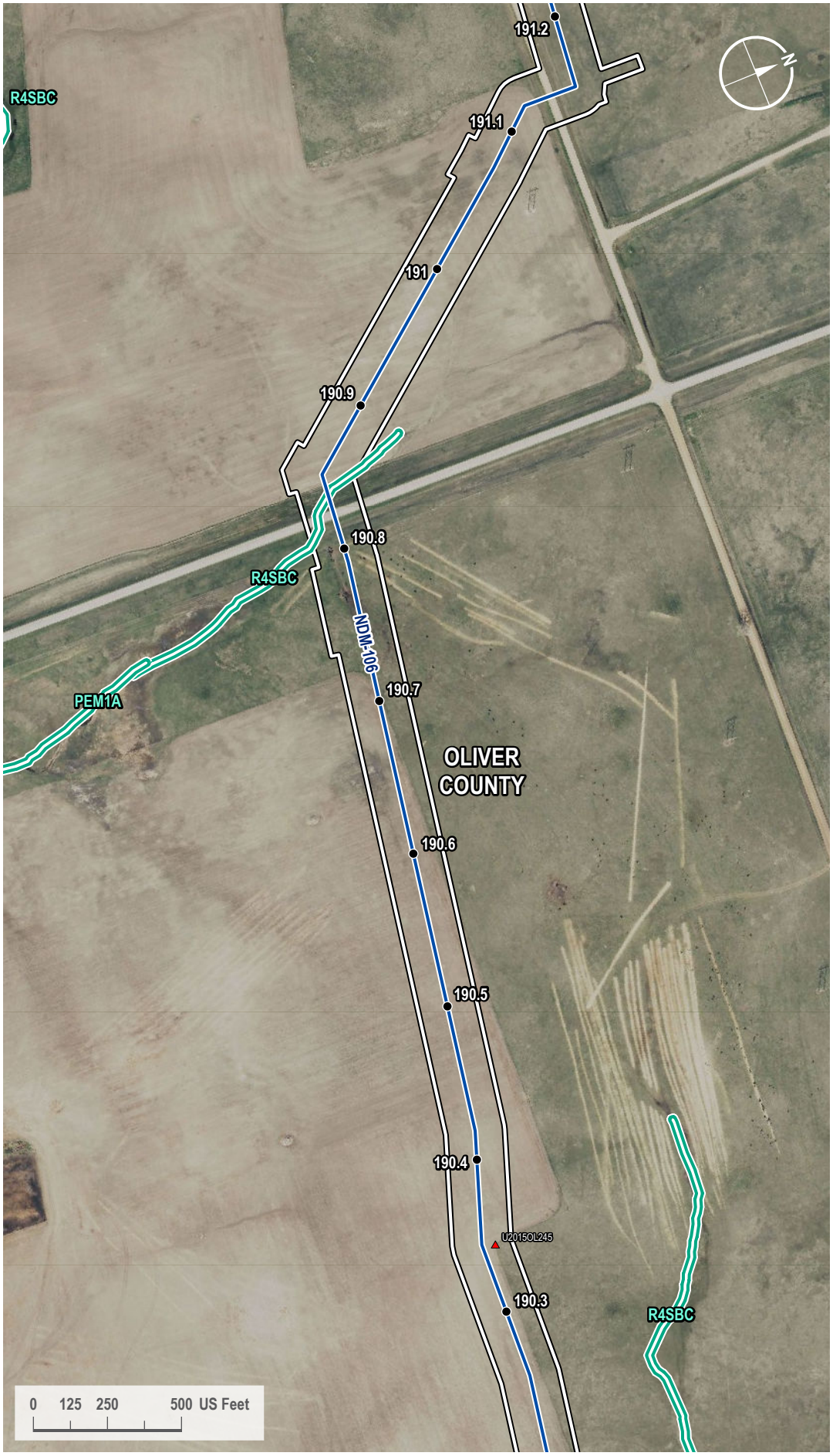

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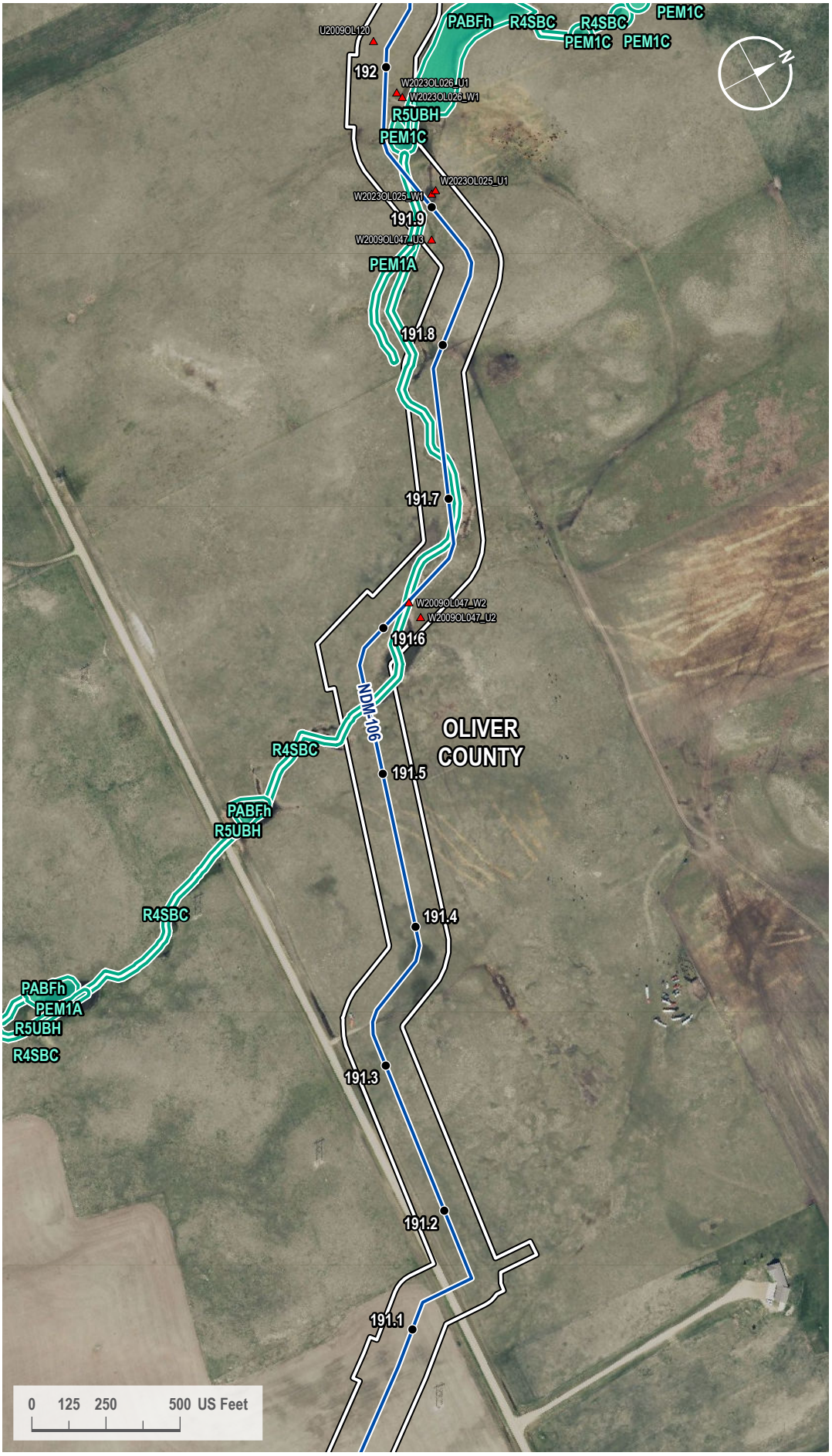

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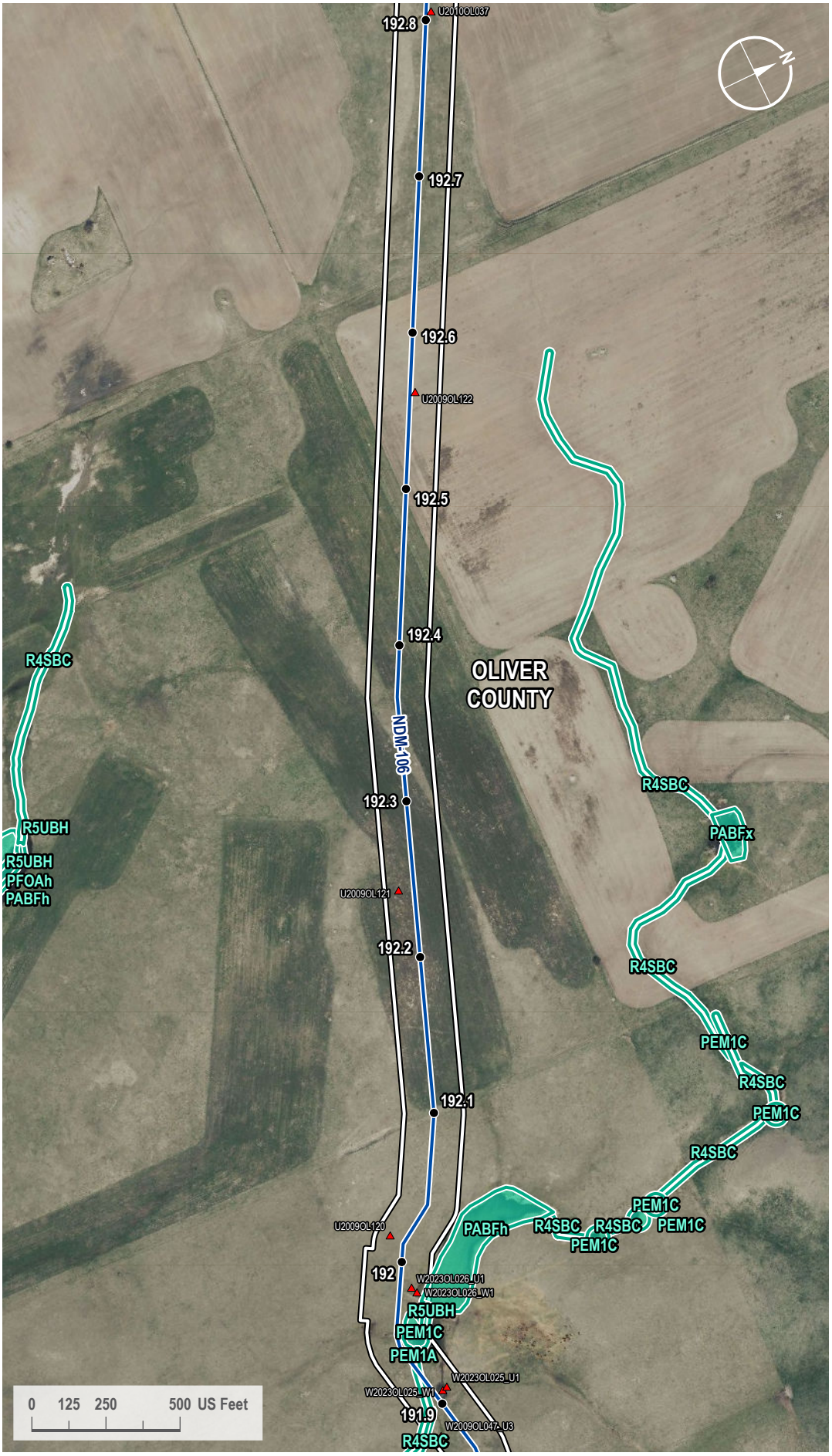

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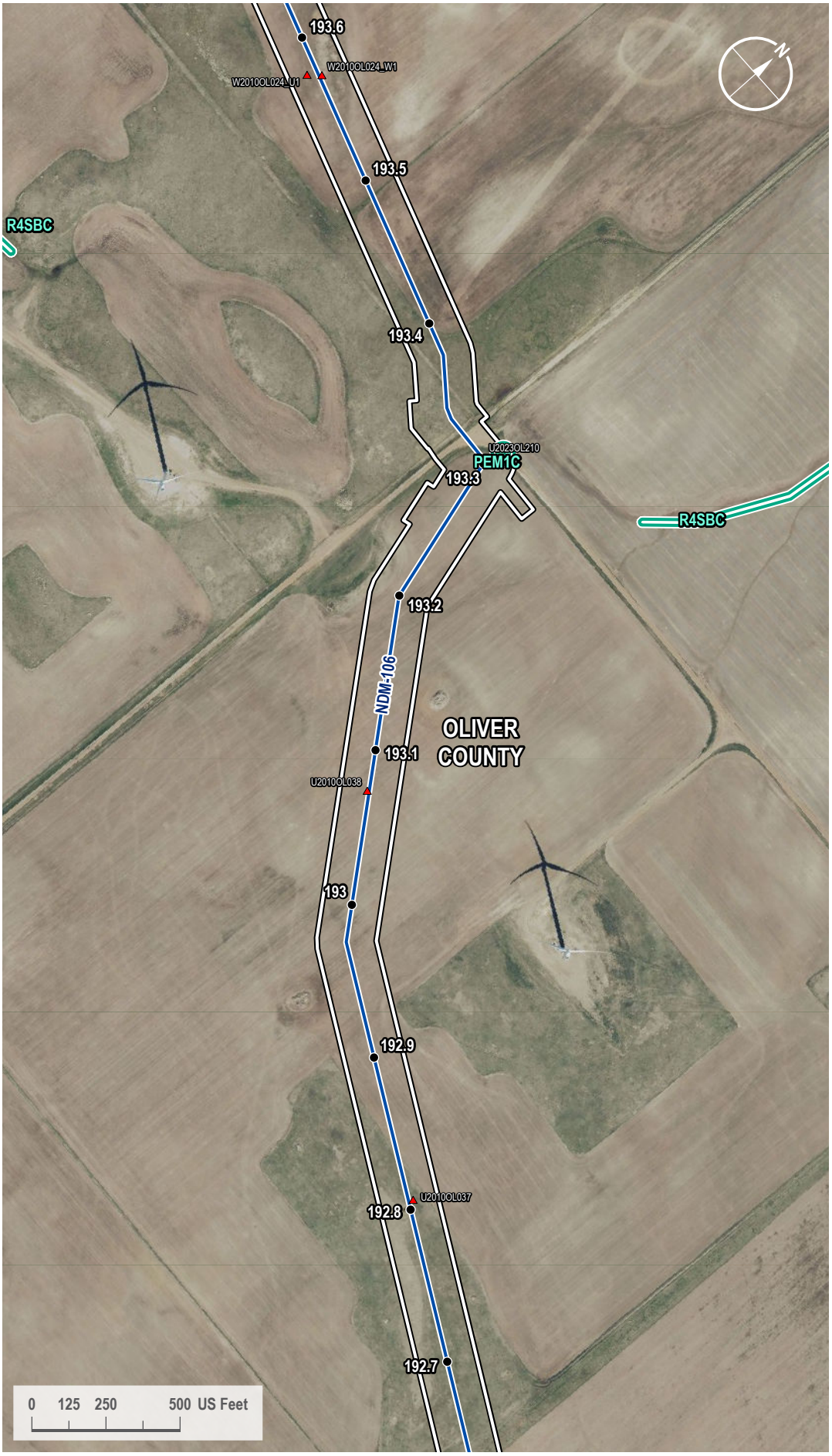

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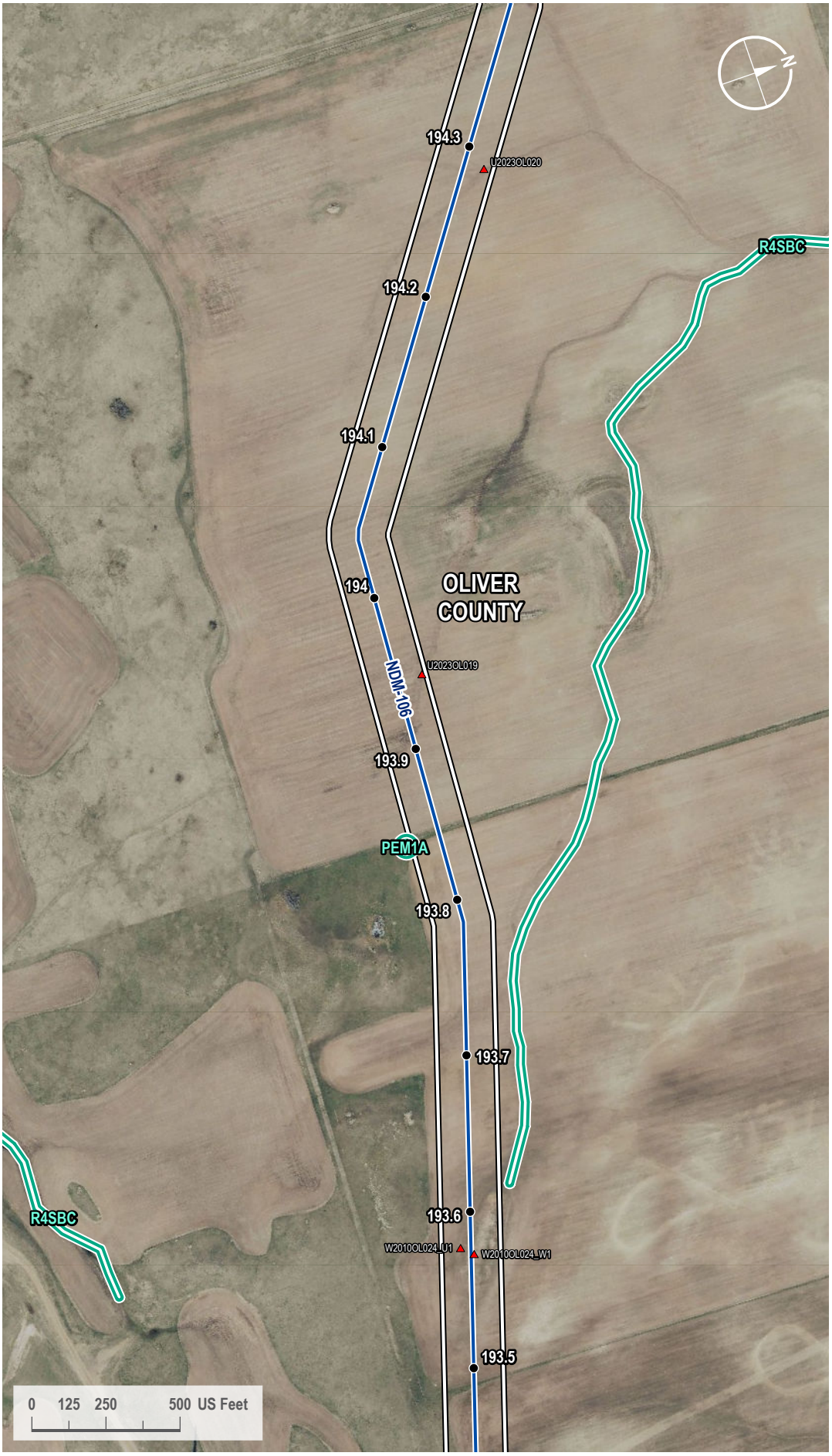

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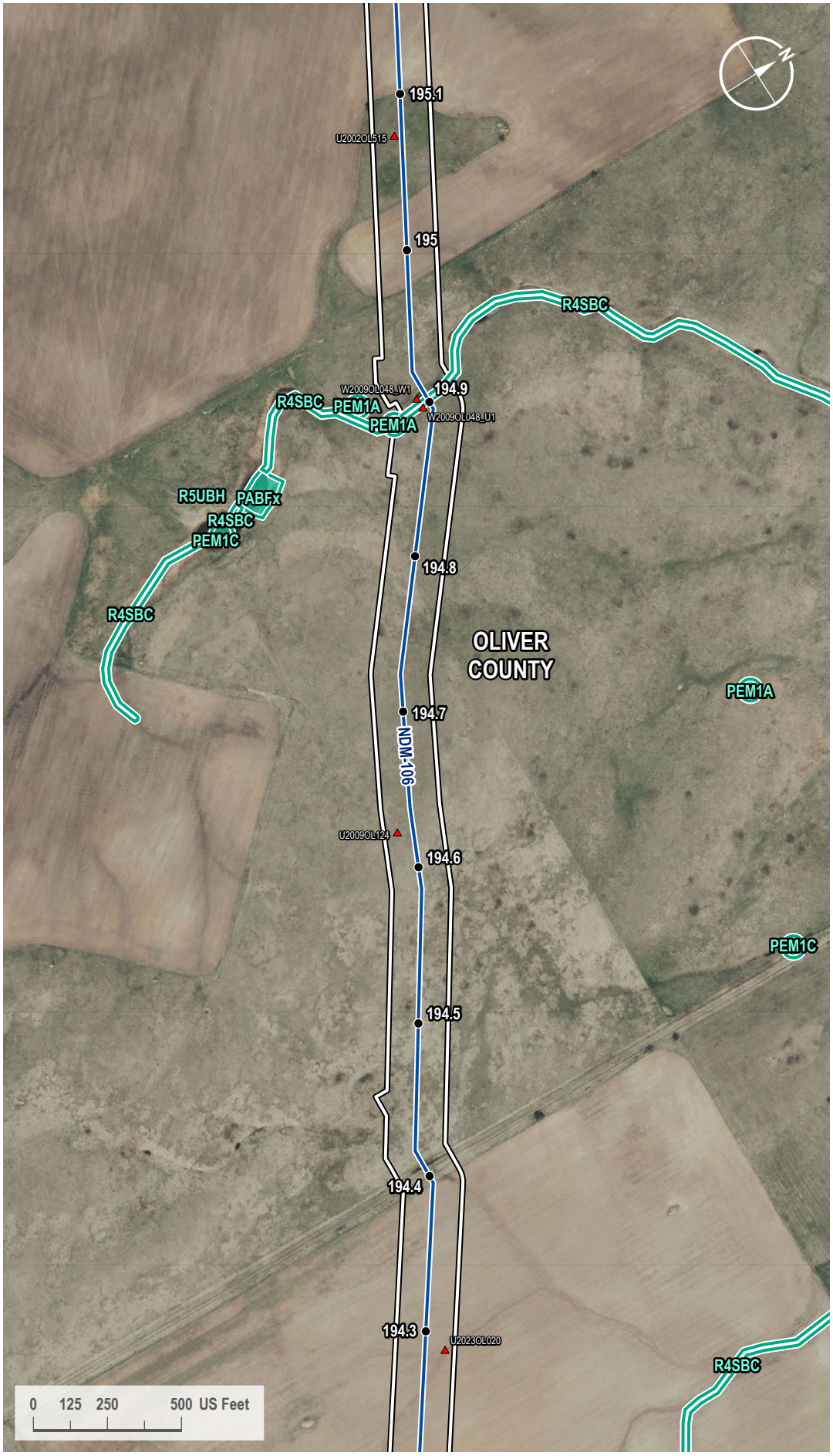

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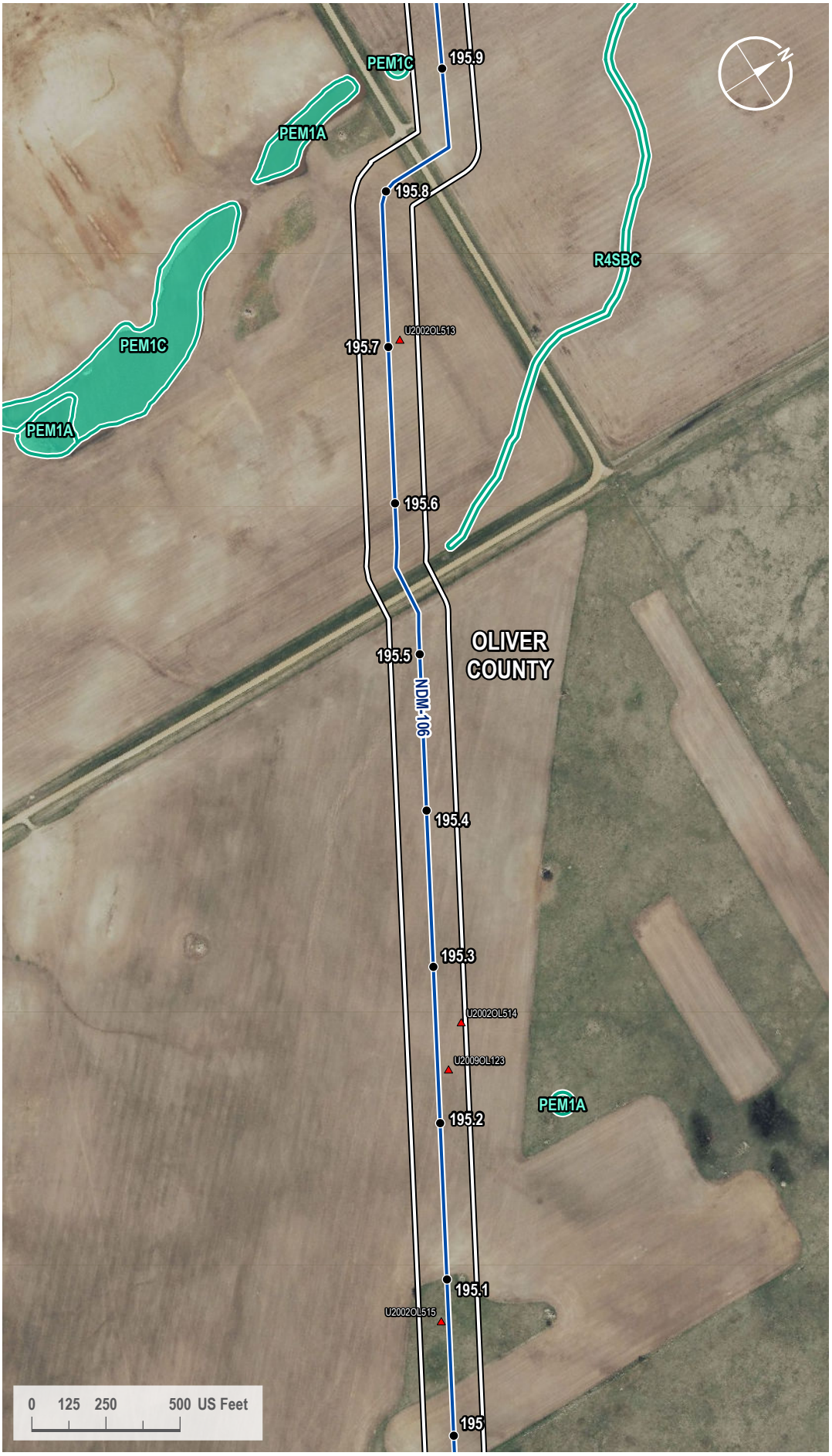

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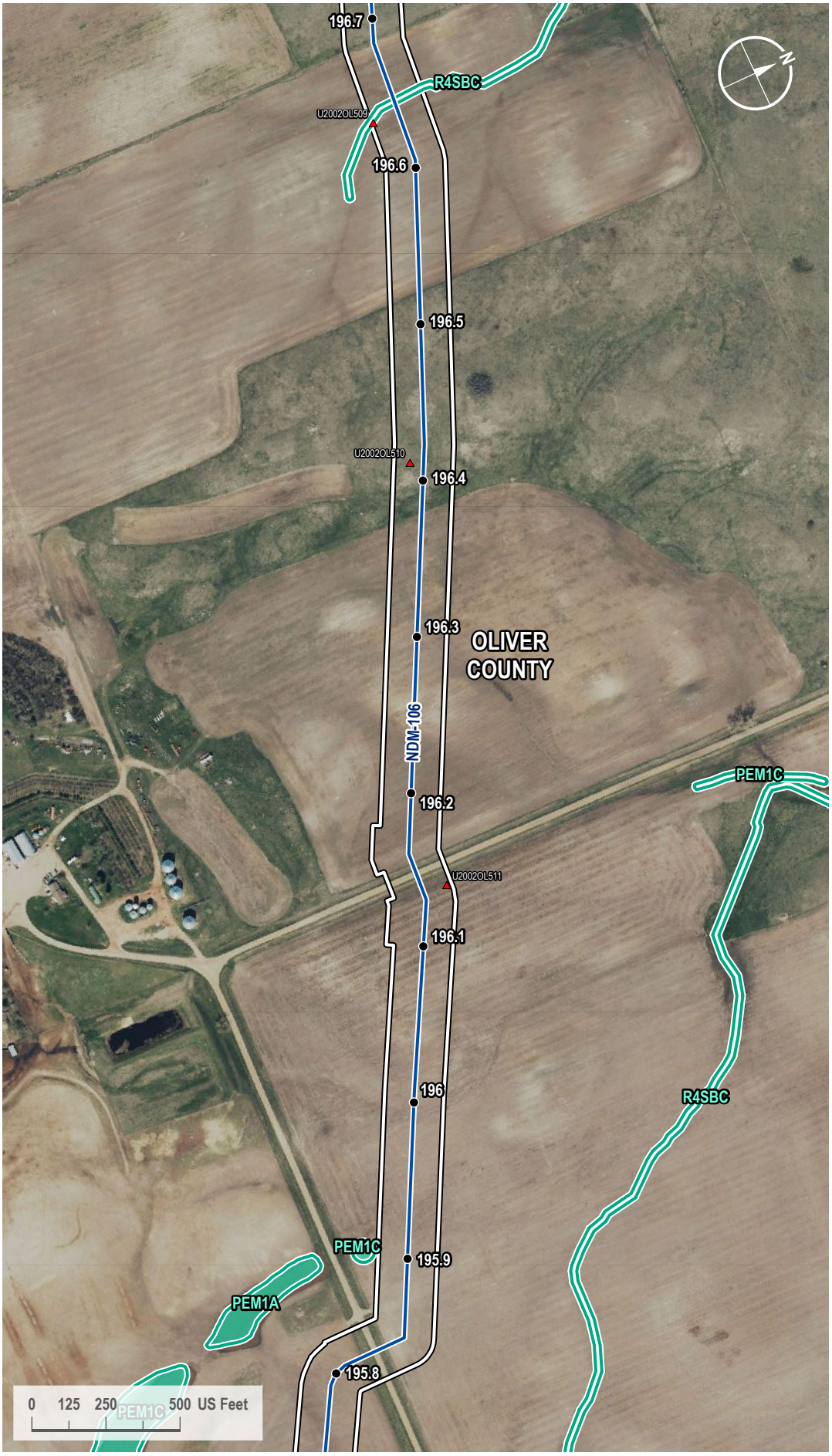

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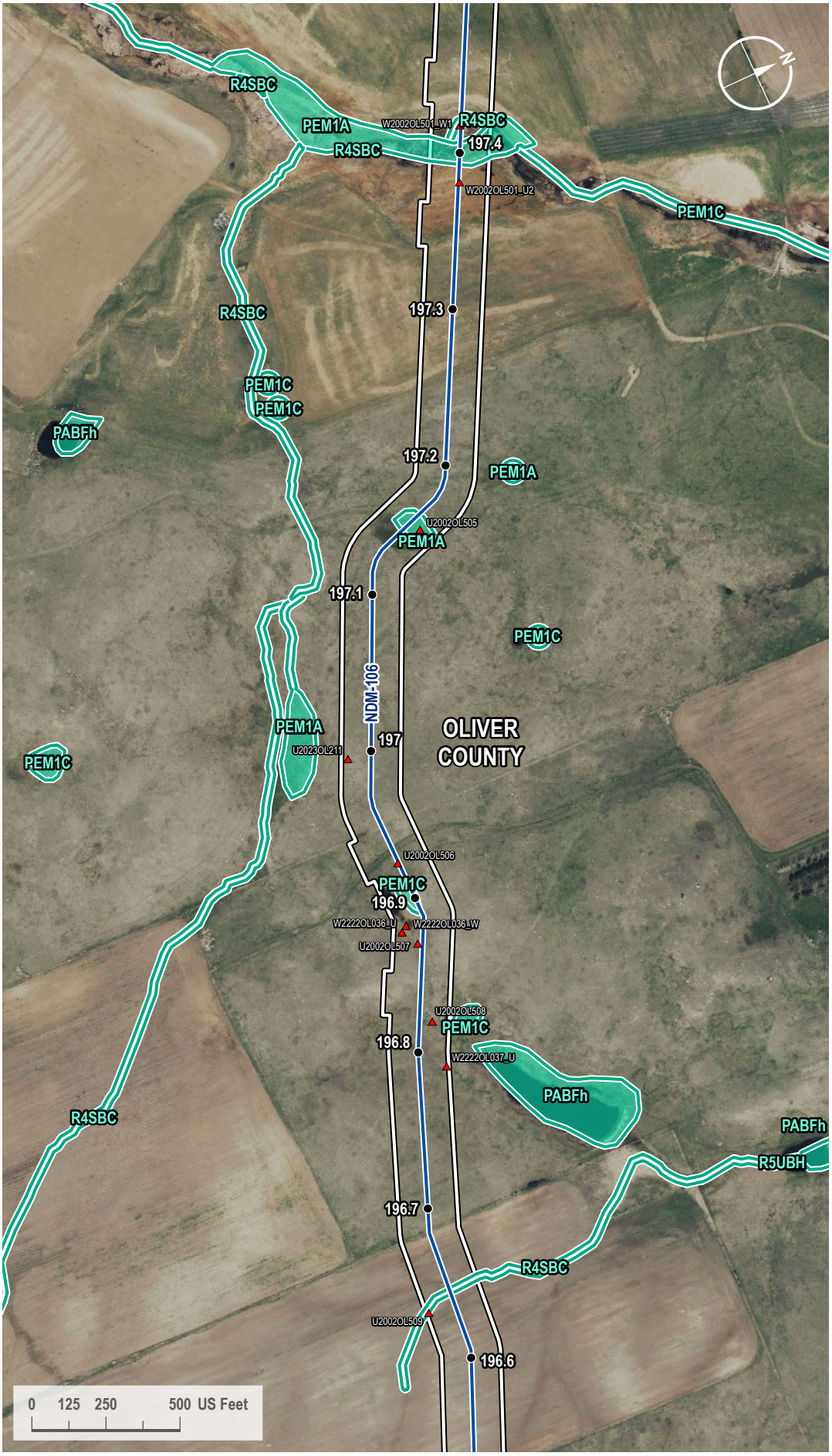

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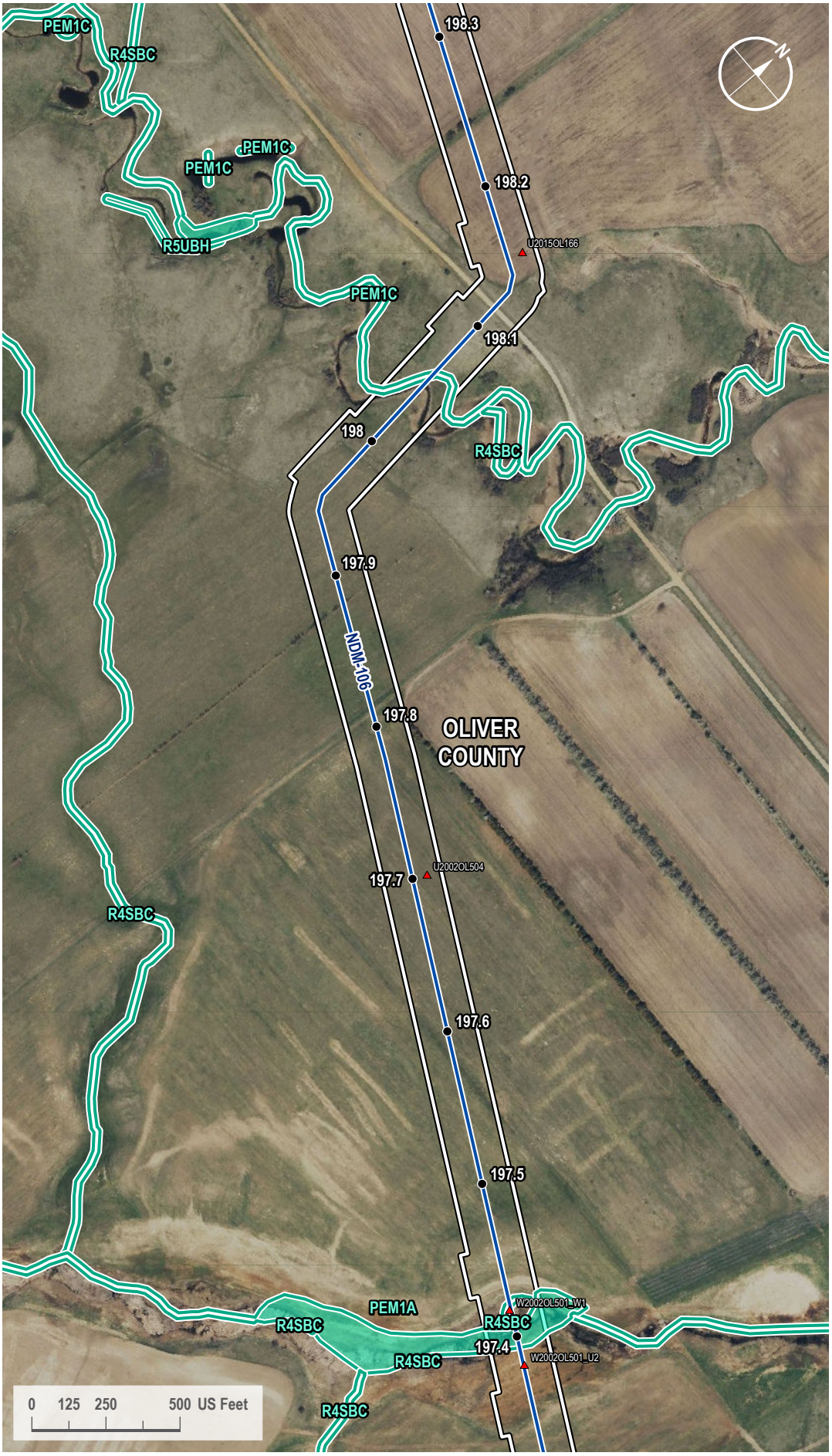

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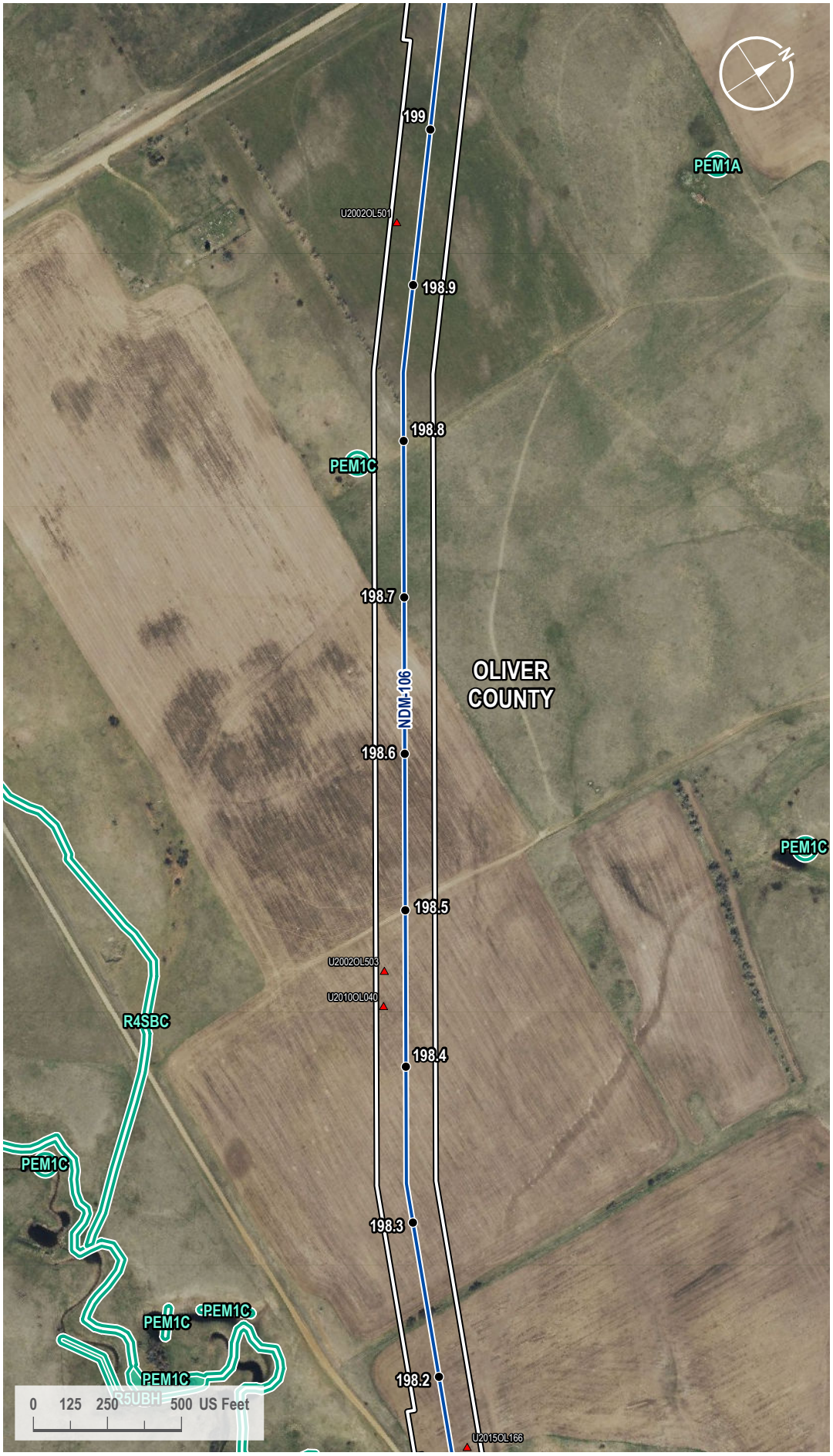

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NWI MAP



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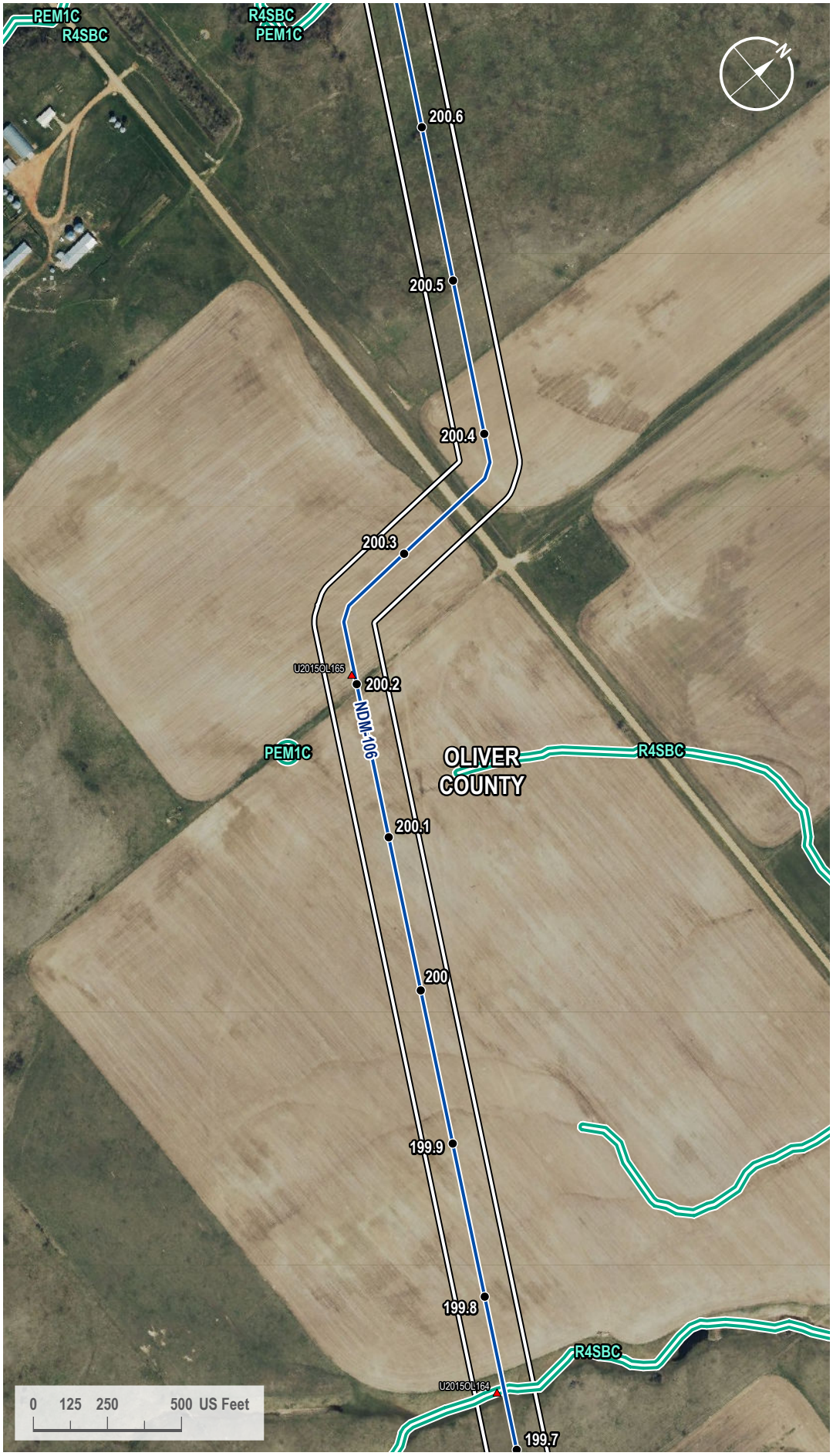

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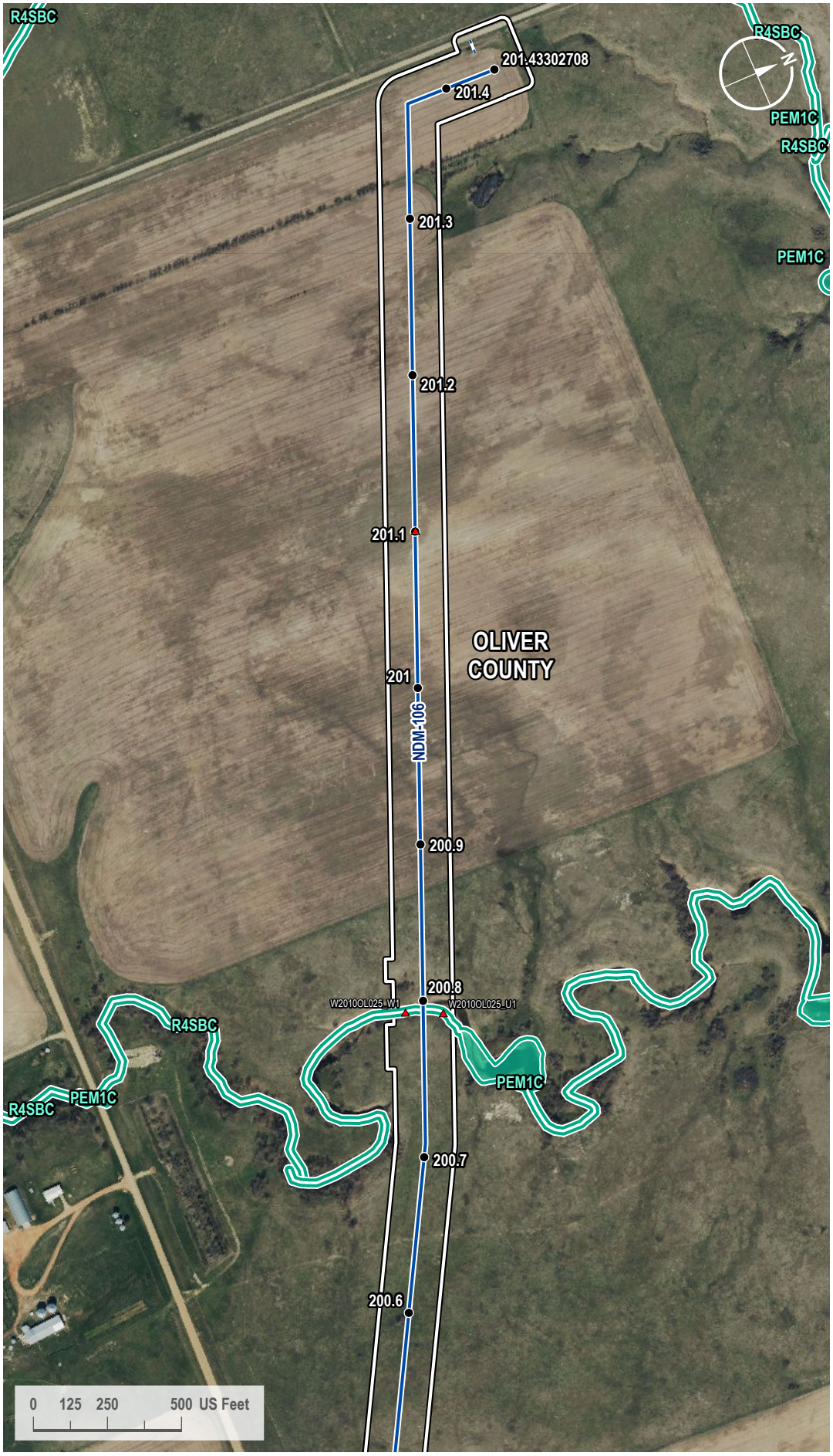

VICINITY MAP



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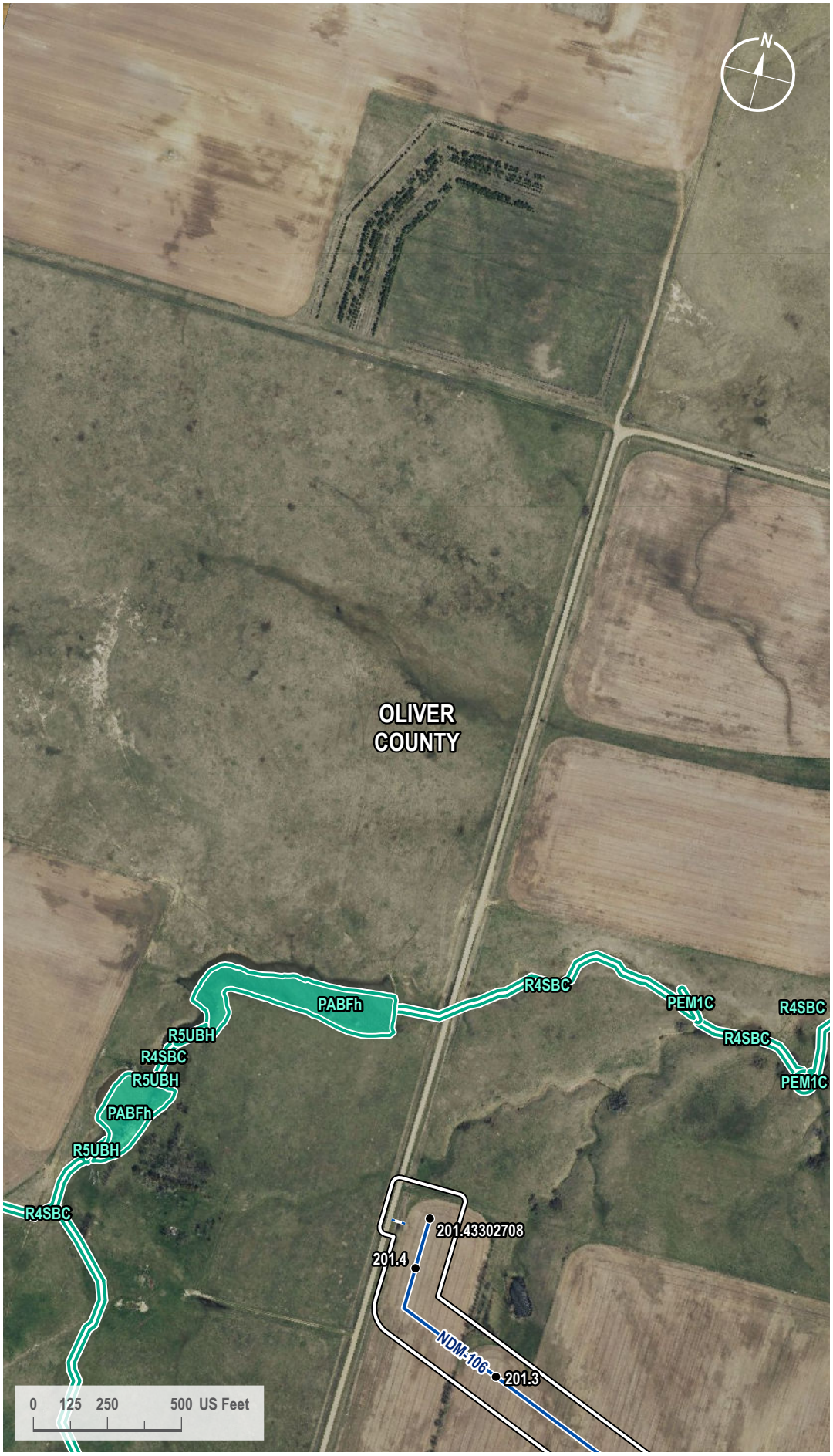

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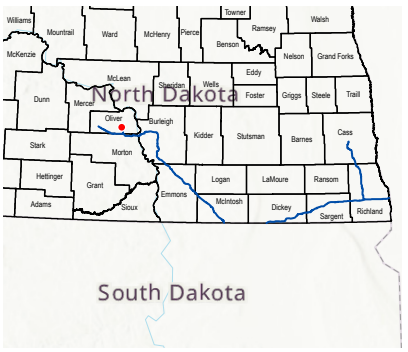

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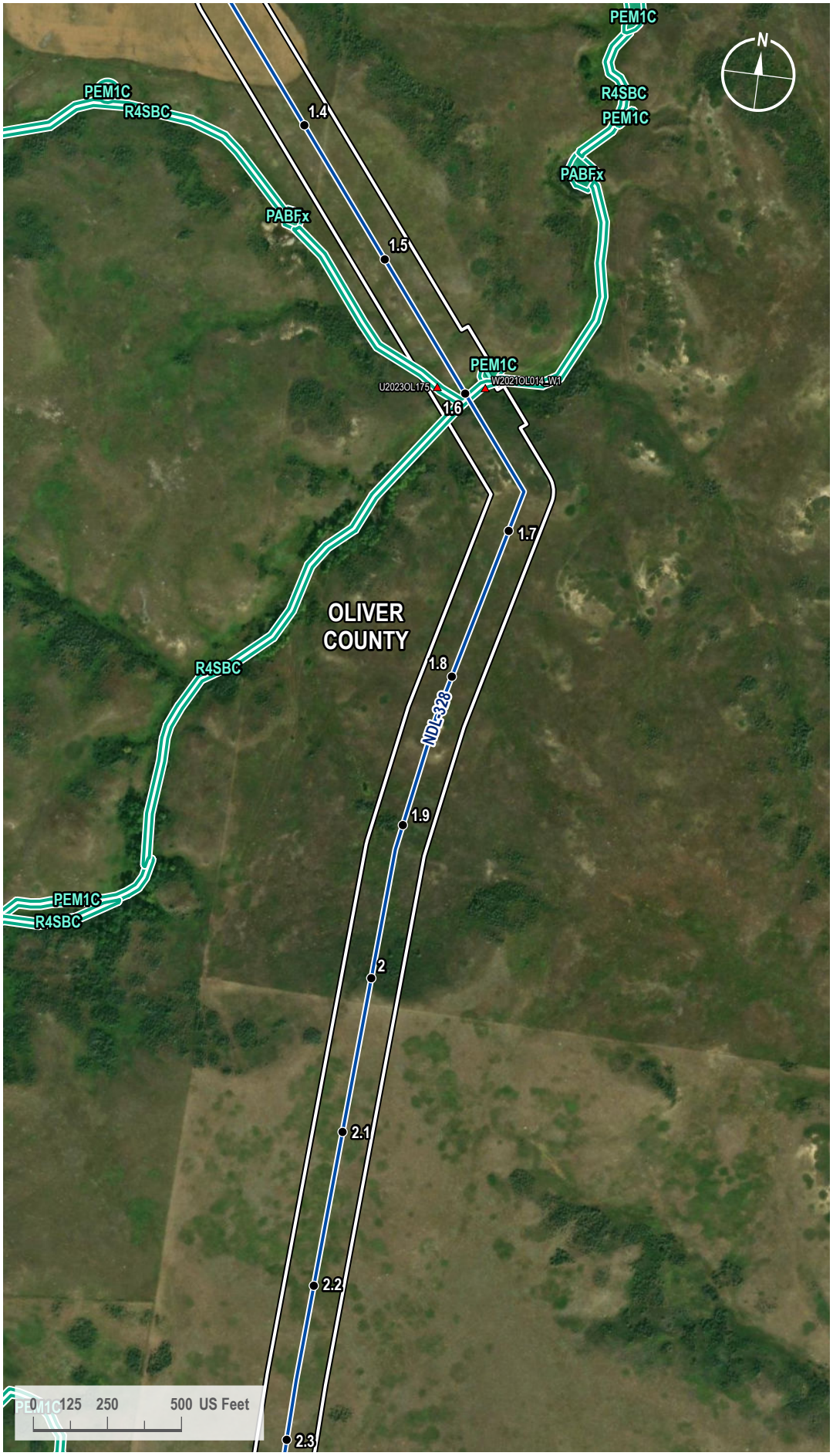

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Figure Title:

NWI Map

Figure Number:

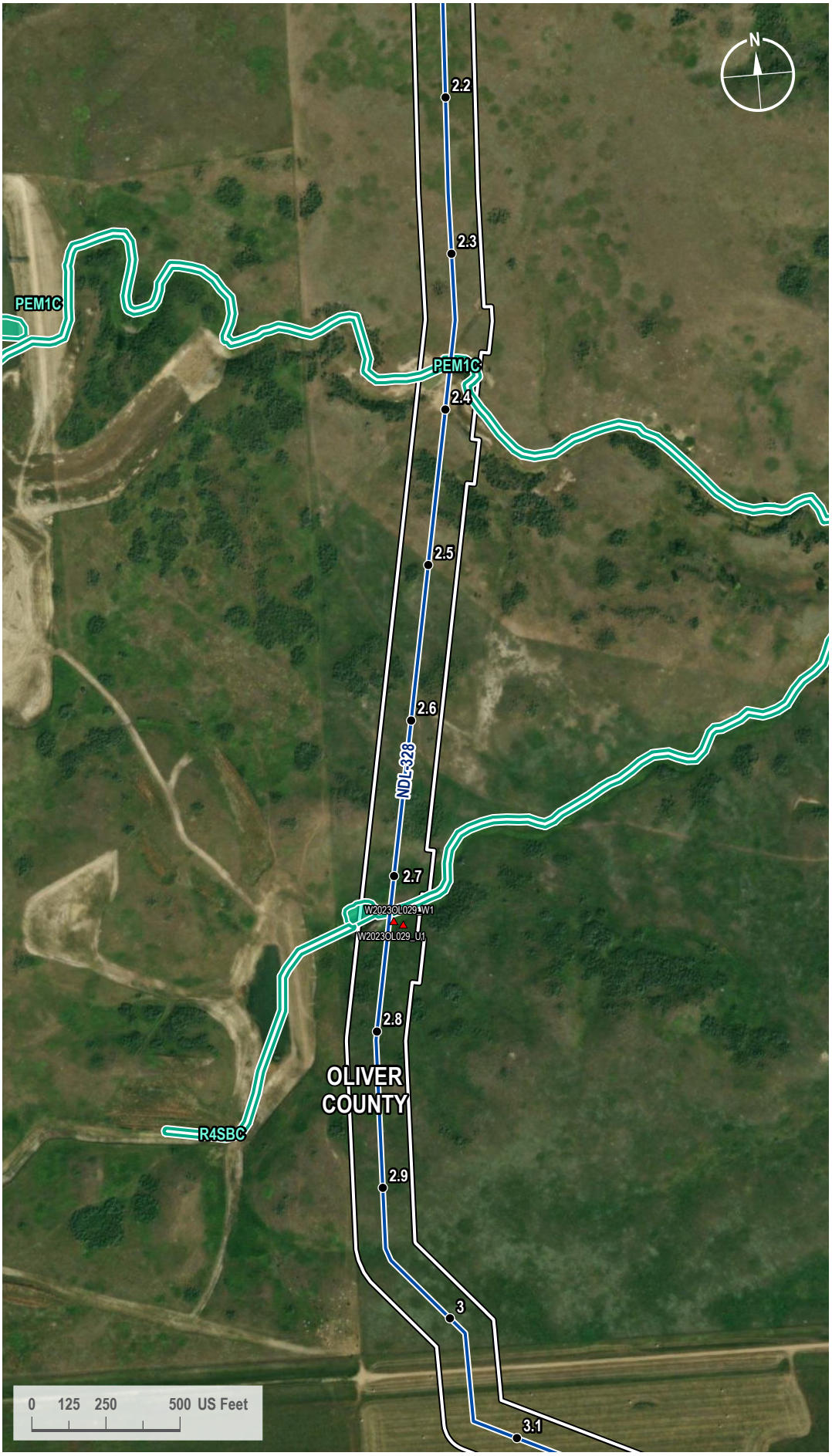
Appendix A-4

Scale:	Projection:
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N

Sheet:	Drawing Number:
428 428 of 433	1001-06-027 Revision 0

Path: G:\Projects\TAL-21015451-00 - Summit Carbon - MCE Project\0800 GEO\10_Mapping\01 Map Books\06 Regulatory\1001-06-027 ND PSC WBWL Mapping\1001-06-027 - NWI Map.aprx

NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

REVISIONS

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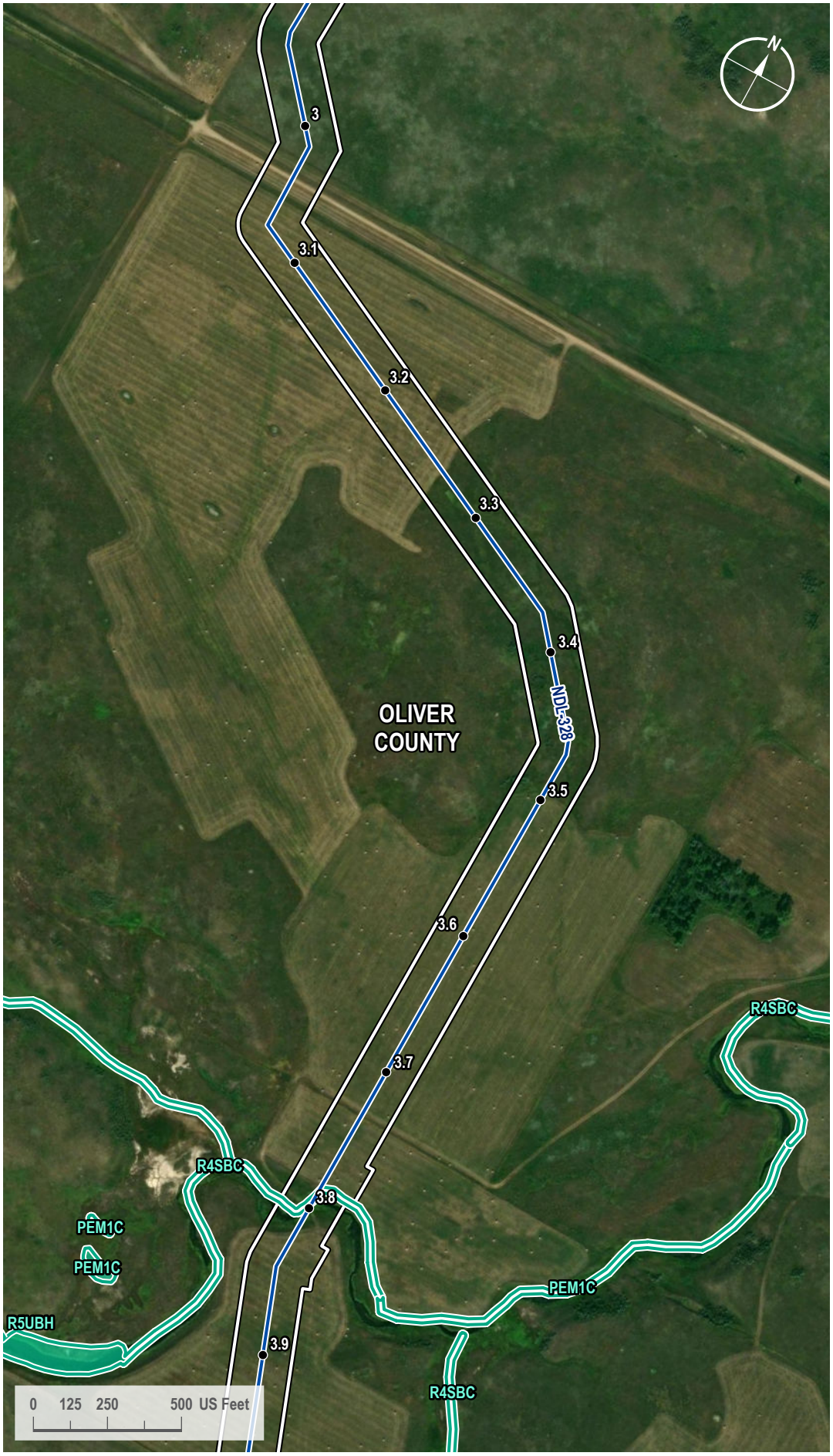
1 : 6,000 1 inch equals 500 feet	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	**Drawing Number:**
429 429 of 433	1001-06-027 Revision 0

Path: G:\Projects\TAL-21015451-00 - Summit Carbon - MCE Project\0800 GEO\10_Mapping\01 Map Books\06 Regulatory\1001-06-027 ND PSC WBWL Mapping\1001-06-027 - NWI Map.aprx

NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

REVISIONS

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Sheet:	**Drawing Number:**
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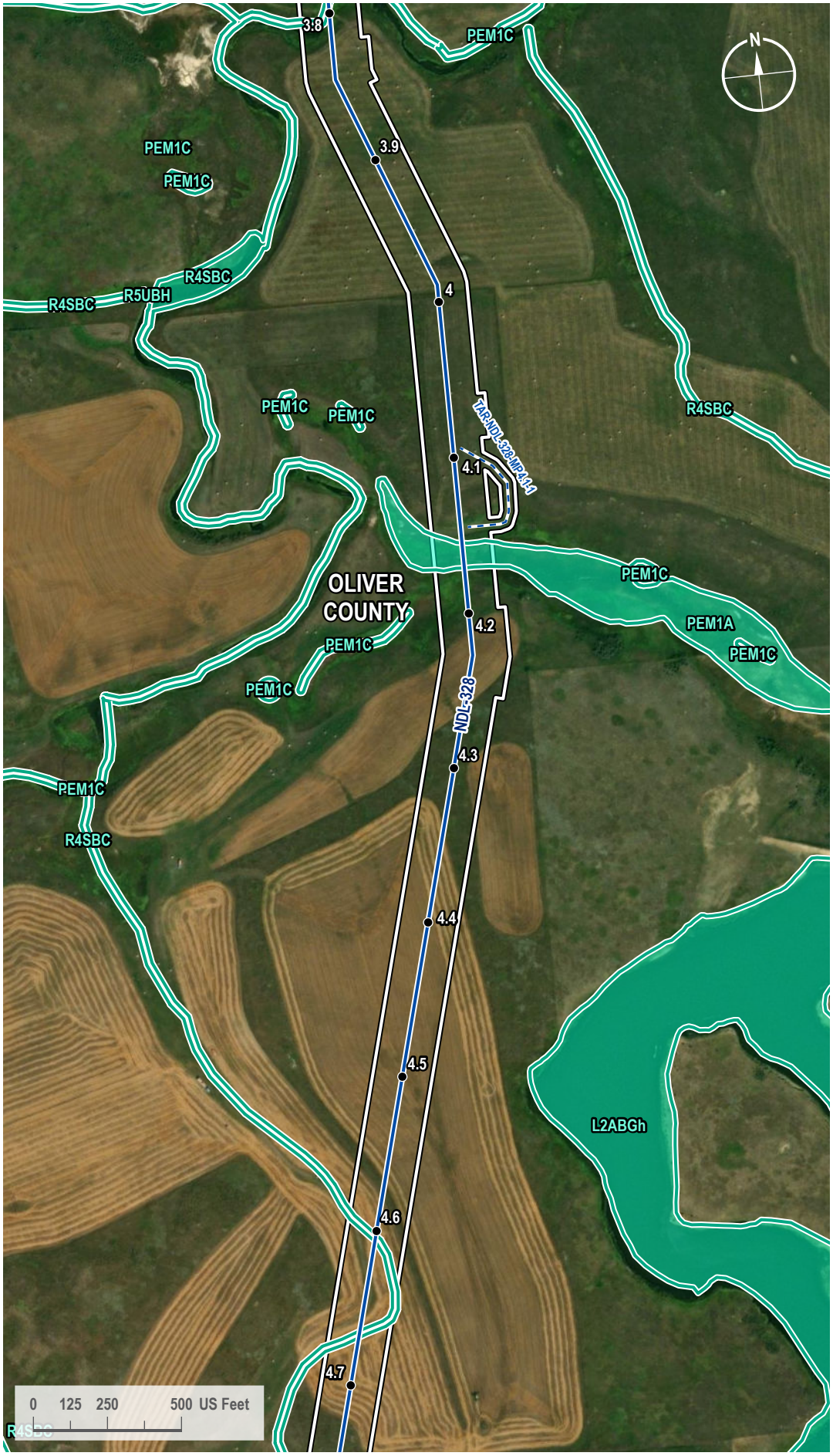
Path: G:\Projects\TAL-21015451-00 - Summit Carbon - MCE Project\0800 GEO\10_Mapping\01 Map Books\06 Regulatory\1001-06-027 ND PSC WBWL Mapping\1001-06-027 - NWI Map.aprx

NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Proposed Route
- Access Road
- 200-foot Siting Corridor
- NWI Wetland

REVISIONS

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NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- 200-foot Siting Corridor
- NWI Wetland

REVISIONS

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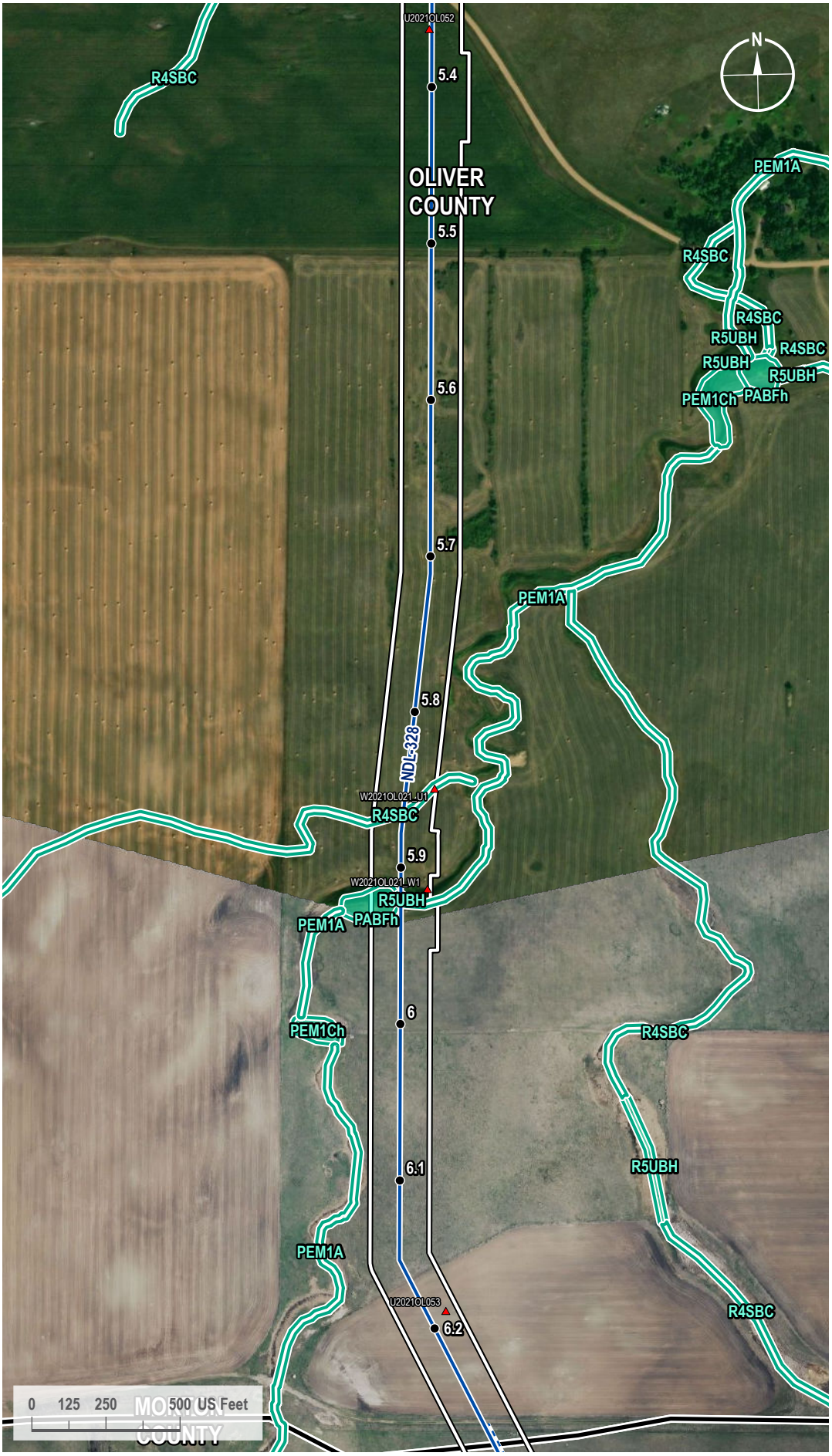
NWI MAP



VICINITY MAP



LEGEND

- Milepost
- Soil Station
- Proposed Route
- Access Road
- County Line
- 200-foot Siting Corridor
- NWI Wetland

REVISIONS

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Appendix B –
Data Sheets (*not included, available upon request*)

Appendix C –
Photographs (*not included, available upon request*)

Appendix D –
Tables of Dominant Wetland Vegetation, Soil Map Units, Hydrologic Units and Major Waterbodies, Wetlands, and Waterbodies Located within the Midwest Carbon Express Project Siting Corridor

Table D1: Dominant Wetland Vegetation within the Midwest Carbon Express Project Siting Corridor – North Dakota

Table D1: Dominant Wetland Vegetation within the Midwest Carbon Express Project Siting Corridor - North Dakota	
Common Name	**Scientific Name**
Palustrine Emergent (PEM) Wetlands	
American licorice	*Glycyrrhiza lepidota*
American sloughgrass	*Beckmannia syzigachne*
barnyardgrass	*Echinochloa crus-galli*
bearded sprangletop	*Leptochloa fusca*
bluejoint	*Calamagrostis canadensis*
broadleaf cattail	*Typha latifolia*
Canadian thistle	*Cirsium arvense*
cloaked bulrush	*Scirpus pallidus*
common buckthorn	*Rhamnus cathartica*
common duckweed	*Lemna minor*
common rush	*Juncus effusus*
common spikerush	*Eleocharis palustris*
common squarerush	*Schoenoplectus pungens*
common wheat	*Triticum x aestivum*
corn	*Zea mays*
creeping meadow foxtail	*Alopecurus arundinaceus*
curly dock	*Rumex crispus*
curlytop knotweed	*Persicaria lapathifolia*
devil's beggartick	*Bidens frondosa*
disk waterhyssop	*Bacopa rotundifolia*
eastern cottonwood	*Populus deltoides*
field sowthistle	*Sonchus arvensis*
foxtail barley	*Hordeum jubatum*
green ash	*Fraxinus pennsylvanica*
green bulrush	*Scirpus atrovirens*
hardstem bulrush	*Schoenoplectus acutus*
hybrid cattail	*Typha X glauca*
Johnsongrass	*Sorghum halepense*
Kentucky bluegrass	*Poa pratensis*
lesser clearweed	*Pilea fontana*
longroot smartweed	*Persicaria amphibia*
marsh bristlegrass	*Setaria parviflora*

Table D1: Dominant Wetland Vegetation within the Midwest Carbon Express Project Siting Corridor - North Dakota	
Common Name	**Scientific Name**
mat amaranth	*Amaranthus blitoides*
meadow willow	*Salix petiolaris*
mountain rush	*Juncus balticus*
narrowleaf burreed	*Sparganium emersum*
narrowleaf cattail	*Typha angustifolia*
narrowleaf dock	*Rumex stenophyllus*
narrowleaf willow	*Salix interior*
nodding beggartick	*Bidens cernua*
peachleaf willow	*Salix amygdaloides*
Pennsylvania buttercup	*Ranunculus pensylvanicus*
Pennsylvania smartweed	*Persicaria pensylvanica*
prairie cordgrass	*Spartina pectinata*
prairie rose	*Rosa arkansana*
prostrate pigweed	*Amaranthus albus*
quackgrass	*Elymus repens*
quill sedge	*Carex tenera*
rayless alkali aster	*Symphyotrichum ciliatum*
red goosefoot	*Chenopodium rubrum*
redroot amaranth	*Amaranthus retroflexus*
redtop	*Agrostis gigantea*
reed canarygrass	*Phalaris arundinacea*
river bulrush	*Schoenoplectus fluviatilis*
Rocky Mountain goosefoot	*Chenopodium glaucum var. salinum*
rough barnyardgrass	*Echinochloa muricata*
rough bentgrass	*Agrostis scabra*
rough bugleweed	*Lycopus asper*
rough cockleburr	*Xanthium strumarium*
roughfruit amaranth	*Amaranthus tuberculatus*
saltgrass	*Distichlis spicata*
Sartwell's sedge	*Carex sartwellii*
scouringrush horsetail	*Equisetum hyemale*
scratchgrass	*Muhlenbergia asperifolia*
shortbeak sedge	*Carex brevior*

Table D1: Dominant Wetland Vegetation within the Midwest Carbon Express Project Siting Corridor - North Dakota	
Common Name	**Scientific Name**
Siberian peashrub	*Caragana arborescens*
silverweed cinquefoil	*Potentilla anserina*
slimstem reedgrass	*Calamagrostis stricta*
small spikerush	*Eleocharis minima*
smooth brome	*Bromus inermis*
smoothcone sedge	*Carex laeviconica*
softstem bulrush	*Schoenoplectus tabernaemontani*
southern cattail	*Typha domingensis*
soybean	*Glycine max*
stinging nettle	*Urtica dioica*
swamp verbena	*Verbena hastata*
switchgrass	*Panicum virgatum*
tall goldenrod	*Solidago altissima*
torpedo grass	*Panicum repens*
uptight sedge	*Carex stricta*
valley redstem	*Ammannia coccinea*
western dogwood	*Cornus alba*
wheat sedge	*Carex atherodes*
witchgrass	*Panicum capillare*
woolly sedge	*Carex pellita*
yellow foxtail	*Setaria pumila*
Palustrine Shrub-Scrub (PSS) Wetlands	
American licorice	*Glycyrrhiza lepidota*
eastern cottonwood	*Populus deltoides*
narrowleaf willow	*Salix interior*
reed canarygrass	*Phalaris arundinacea*
wheat sedge	*Carex atherodes*
American licorice	*Glycyrrhiza lepidota*
Palustrine Forested (PFO) Wetlands	
redtop	*Agrostis gigantea*
green ash	*Fraxinus pennsylvanica*
hybrid cattail	*Typha X glauca*
Kentucky blue grass	*Poa pratensis*

Table D1: Dominant Wetland Vegetation within the Midwest Carbon Express Project Siting Corridor - North Dakota	
Common Name	**Scientific Name**
cloaked bulrush	*Scirpus pallidus*
peachleaf willow	*Salix amygdaloides*
reed canarygrass	*Phalaris arundinacea*
river bulrush	*Schoenoplectus fluviatilis*

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor – North Dakota

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Aastad-Forman loams, 0 to 3 percent slopes			175.3	2.12%
Aastad-Forman-Parnell complex, 0 to 3 percent slopes			79.63	0.96%
Aastad-Forman-Tonka complex, 0 to 3 percent slopes			9.33	0.11%
Aastad-Wyard-Tonka complex, 0 to 3 percent slopes			2.92	0.04%
Aberdeen silt loam, 0 to 2 percent slopes			3.45	0.04%
Aberdeen-Galchutt-Fargo complex, 0 to 2 percent slopes			5.09	0.06%
Aberdeen-Ryan silty clay loams, 0 to 2 percent slopes			1.71	0.02%
Amor loam, 6 to 9 percent slopes			30.57	0.37%
Amor-Arnegard loams, 0 to 3 percent slopes			18.96	0.23%
Amor-Arnegard loams, 3 to 6 percent slopes			16.71	0.20%
Amor-Cabba loams, 6 to 9 percent slopes			20.17	0.24%
Amor-Cabba loams, 9 to 15 percent slopes			21.78	0.26%
Amor-Shambo loams, 3 to 6 percent slopes			36.02	0.44%
Amor-Werner loams, 3 to 6 percent slopes			36.56	0.44%
Amor-Werner loams, 6 to 15 percent slopes, very stony			2.53	0.03%
Amor-Werner loams, 9 to 15 percent slopes			26.04	0.32%
Amor-Werner-Farnuf loams, 6 to 9 percent slopes			53.21	0.64%
Antler-Mustinka complex, 0 to 2 percent slopes			8.57	0.10%
Appam sandy loam, 2 to 6 percent slopes			1.69	0.02%
Arikara-Shambo-Cabba loams, 9 to 70 percent slopes			0.22	0.00%
Arnegard loam, 0 to 2 percent slopes			70.23	0.85%
Arnegard loam, 2 to 6 percent slopes			41.49	0.50%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Arveson fine sandy loam, 0 to 1 percent slopes	0.85	0.01%		
Arveson loam, moderately saline, stratified substratum, 0 to 1 percent slopes	4.56	0.06%		
Arveson loam, slightly saline, stratified substratum, 0 to 1 percent slopes	57.15	0.69%		
Arveson loam, slightly saline, stratified substratum, 0 to 1 percent slopes, frequently ponded	6.87	0.08%		
Aylmer-Bantry fine sands, 0 to 6 percent slopes			15.71	0.19%
Aylmer-Rosewood-Serden complex, 0 to 9 percent slopes			51.42	0.62%
Banks-Trembles fine sandy loams, 0 to 2 percent slopes, occasionally flooded			3.89	0.05%
Bantry-Hamar-Aylmer complex, 0 to 6 percent slopes			5.97	0.07%
Barnes-Buse loams, 3 to 6 percent slopes			22.82	0.28%
Barnes-Buse loams, 3 to 9 percent slopes, very stony			0.07	0.00%
Barnes-Buse-Langhei loams, 6 to 9 percent slopes			28.56	0.35%
Barnes-Buse-Langhei loams, 9 to 15 percent slopes			0.07	0.00%
Barnes-Buse-Parnell complex, 0 to 6 percent slopes			18.73	0.23%
Barnes-Cavour loams, 3 to 6 percent slopes			49.84	0.60%
Barnes-Cresbard loams, 3 to 6 percent slopes			68.6	0.83%
Barnes-Sioux complex, 3 to 9 percent slopes			0.24	0.00%
Barnes-Svea loams, 0 to 3 percent slopes			154.5	1.87%
Barnes-Svea loams, 3 to 6 percent slopes			111.07	1.35%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Bearden silty clay loam, 0 to 2 percent slopes			3.02	0.04%
Bearden silty clay loam, moderately saline, 0 to 2 percent slopes			22.71	0.28%
Bearden-Kindred silty clay loams, 0 to 2 percent slopes			14.55	0.18%
Bearden-Kindred silty clay loams, clayey substratum, 0 to 2 percent slopes			51.79	0.63%
Bearpaw loam, 6 to 9 percent slopes			102.6	1.24%
Bearpaw-Noonan loams, 0 to 6 percent slopes			17.98	0.22%
Bearpaw-Zeeland loams, 0 to 3 percent slopes			24.43	0.30%
Bearpaw-Zeeland loams, 3 to 6 percent slopes			149.8	1.82%
Belfield-Daglum complex, 0 to 2 percent slopes			32.32	0.39%
Belfield-Grail clay loams, 0 to 2 percent slopes			7.86	0.10%
Belfield-Korell loams, 0 to 2 percent slopes, rarely flooded			2.17	0.03%
Belfield-Rhoades complex, 0 to 2 percent slopes			16.39	0.20%
Belfield-Savage-Daglum complex, 2 to 6 percent slopes			36.66	0.44%
Borup silt loam, 0 to 1 percent slopes	3.3	0.04%		
Borup silt loam, moderately saline, stratified substratum, 0 to 1 percent slopes	2.44	0.03%		
Borup silt loam, slightly saline, stratified substratum, 0 to 1 percent slopes	39.64	0.48%		
Bowdle-Lehr loams, 0 to 2 percent slopes			109.46	1.33%
Bryant silt loam, 2 to 6 percent slopes			3.41	0.04%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Buse-Barnes-Darnen loams, 3 to 9 percent slopes			11.12	0.13%
Buse-Barnes-Darnen loams, 6 to 15 percent slopes			3.65	0.04%
Buse-Barnes-Darnen loams, 9 to 35 percent slopes			45.63	0.55%
Cabba-Badland complex, 6 to 70 percent slopes			1.94	0.02%
Cabba-Chama-Sen silt loams, 9 to 15 percent slopes			5.12	0.06%
Cabba-Chama-Shambo loams, 9 to 50 percent slopes			21.91	0.27%
Cashel-Fluvaquents, channeled complex, wooded, 0 to 35 percent slopes, frequently flooded			0.79	0.01%
Cavour-Ferney loams, 0 to 3 percent slopes			12.83	0.16%
Chama-Cabba-Sen silt loams, 6 to 9 percent slopes			1.69	0.02%
Clearwater-Reis silty clays, loamy substratum, 0 to 1 percent slopes	36.72	0.44%		
Clontarf fine sandy loam, 0 to 2 percent slopes			5.18	0.06%
Clontarf fine sandy loam, 2 to 6 percent slopes			0.07	0.00%
Cohagen-Vebar-Parshall fine sandy loams, 9 to 35 percent slopes			24.05	0.29%
Colvin silt loam, 0 to 1 percent slopes, frequently ponded	2.28	0.03%		
Daglum-Belfield complex, 0 to 2 percent slopes			10.33	0.13%
Daglum-Belfield loams, 0 to 2 percent slopes			7.02	0.09%
Daglum-Rhoades complex, 0 to 6 percent slopes			31.91	0.39%
Daglum-Rhoades complex, 6 to 9 percent slopes			14.68	0.18%
Daglum-Rhoades silt loams, 0 to 2 percent slopes			0.54	0.01%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Daglum-Rhoades silt loams, 2 to 6 percent slopes			11.26	0.14%
Delamere loam, 0 to 1 percent slopes			22.99	0.28%
Dickey-Esmond-Embden complex, 3 to 9 percent slopes			1.33	0.02%
Dickey-Towner fine sandy loams, 3 to 6 percent slopes			9.4	0.11%
Divide loam, 0 to 2 percent slopes			3.72	0.05%
Dogtooth-Janesburg-Cabba complex, 6 to 35 percent slopes			5.71	0.07%
Doran clay loam, 0 to 2 percent slopes			13.38	0.16%
Doran-Mustinka silty clay loams, 0 to 2 percent slopes			20.57	0.25%
Dovray silty clay, 0 to 1 percent slopes	2.83	0.03%	-	-
Eckman-Zell complex, 6 to 9 percent slopes			4.76	0.06%
Eckman-Zell loams, 2 to 6 percent slopes			1	0.01%
Egeland-Embden fine sandy loams, till substratum, 0 to 6 percent slopes			1.82	0.02%
Egeland-Letcher fine sandy loams, till substratum, 0 to 6 percent slopes			12.55	0.15%
Embden fine sandy loam, 0 to 2 percent slopes			7.72	0.09%
Embden fine sandy loam, 2 to 6 percent slopes			1.12	0.01%
Embden-Egeland fine sandy loams, 2 to 6 percent slopes			5.04	0.06%
Embden-Wyndmere fine sandy loams, 0 to 2 percent slopes			7.81	0.09%
Fairdale silt loam, 0 to 2 percent slopes, occasionally flooded			1.44	0.02%
Fairdale-Fluvaquents, channeled complex, 0 to 6 percent slopes, frequently flooded			1.38	0.02%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Fargo silty clay loam, 0 to 1 percent slopes	87.26	1.06%		
Fargo silty clay, 0 to 1 percent slopes	298.99	3.62%		
Fargo silty clay, depressional, 0 to 1 percent slopes	24.77	0.30%		
Fargo-Enloe complex, 0 to 1 percent slopes	63.75	0.77%		
Fargo-Hegne silty clays, 0 to 1 percent slopes	25.91	0.31%		
Fargo-Nutley silty clays, 0 to 2 percent slopes	14.19	0.17%		
Fargo-Ryan, thick solum silty clay loams, 0 to 1 percent slopes	13.65	0.17%		
Fargo-Ryan, thick solum silty clays, 0 to 1 percents slopes	41.04	0.50%		
Farland silt loam, 0 to 2 percent slopes			2.47	0.03%
Farland silt loam, 2 to 6 percent slopes			9.07	0.11%
Farland silt loam, 6 to 9 percent slopes			5.68	0.07%
Farnuf loam, 0 to 2 percent slopes			5.39	0.07%
Flasher-Rock outcrop-Vebar complex, 9 to 70 percent slopes			15.9	0.19%
Flasher-Vebar complex, 15 to 70 percent slopes			16.71	0.20%
Flasher-Vebar complex, 9 to 15 percent slopes			17.93	0.22%
Flasher-Vebar-Parshall complex, 9 to 35 percent slopes			3.25	0.04%
Flasher-Vebar-Rock outcrop complex, 15 to 70 percent slopes			13.47	0.16%
Flaxton fine sandy loam, 0 to 3 percent slopes			2.92	0.04%
Flaxton fine sandy loam, 3 to 6 percent slopes			17.53	0.21%
Flaxton fine sandy loam, 6 to 9 percent slopes			10.57	0.13%
Flaxton-Livona fine sandy loams, 0 to 3 percent slopes			0.55	0.01%
Flaxton-Livona fine sandy loams, 3 to 6 percent slopes			21.53	0.26%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Flaxton-Williams complex, 3 to 6 percent slopes			1.24	0.01%
Foldahl fine sandy loam, 0 to 2 percent slopes			2.94	0.04%
Foldahl loamy fine sand, 0 to 2 percent slopes			12.77	0.15%
Fordville-Renshaw loams, 0 to 2 percent slopes			4.15	0.05%
Forman-Aastad loams, 3 to 6 percent slopes			37.29	0.45%
Forman-Aastad loams, 3 to 6 percent slopes, very stony			0.24	0.00%
Forman-Aastad-Parnell complex, 0 to 6 percent slopes			124.56	1.51%
Forman-Aastad-Tonka complex, 0 to 6 percent slopes			21.4	0.26%
Forman-Buse loams, 3 to 6 percent slopes			6.22	0.08%
Forman-Buse-Langhei loams, 6 to 9 percent slopes			1.04	0.01%
Forman-Buse-Parnell complex, 0 to 6 percent slopes			12.46	0.15%
Forman-Lankin-Tonka complex, 0 to 3 percent slopes			70.77	0.86%
Fossum fine sandy loam, 0 to 1 percent slopes	3.44	0.04%		
Fossum fine sandy loam, 0 to 1 percent slopes, frequently ponded	3.66	0.04%		
Galchutt silt loam, 0 to 2 percent slopes			13.99	0.17%
Galchutt-Enloe-Fargo silty clay loams, 0 to 2 percent slopes			10.73	0.13%
Galchutt-Wheatville silt loams, 0 to 2 percent slopes			3.56	0.04%
Galchutt-Wheatville, slightly saline silt loams, 0 to 2 percent slopes			35.47	0.43%
Garborg fine sandy loam, 0 to 2 percent slopes			6.16	0.07%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Garborg loamy fine sand, stratified substratum, 0 to 2 percent slopes			8.48	0.10%
Gardena loam, 0 to 2 percent slopes			5.98	0.07%
Gardena silt loam, 0 to 2 percent slopes			25.01	0.30%
Gardena silt loam, clayey substratum, 0 to 2 percent slopes			1.8	0.02%
Gardena-Eckman loams, 2 to 6 percent slopes			3.93	0.05%
Gardena-Eckman silt loams, 2 to 6 percent slopes			9.7	0.12%
Gardena-Glyndon loams, 0 to 2 percent slopes			39.66	0.48%
Gardena-Glyndon loams, sandy substratums, 0 to 2 percent slopes			10.39	0.13%
Gardena-Glyndon silt loams, 0 to 2 percent slopes			0.81	0.01%
Glyndon loam, 0 to 2 percent slopes			40.59	0.49%
Glyndon loam, saline, 0 to 2 percent slopes			2.99	0.04%
Glyndon loam, sandy substratum, 0 to 2 percent slopes			6.63	0.08%
Glyndon loam, slightly saline, stratified substratum, 0 to 2 percent slopes			58.78	0.71%
Glyndon silt loam, 0 to 2 percent slopes			40.26	0.49%
Glyndon silt loam, moderately saline, 0 to 2 percent slopes			6.66	0.08%
Glyndon silt loam, moderately saline, stratified substratum, 0 to 2 percent slopes			8.03	0.10%
Glyndon-Mantador-Tiffany silt loams, slightly saline, stratified substratum, 0 to 2 percent slopes			32.76	0.40%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Glyndon-Tiffany silt loams, 0 to 2 percent slopes			12.4	0.15%
Grail silt loam, 0 to 2 percent slopes			28.43	0.34%
Grail silty clay loam, 0 to 2 percent slopes			14.55	0.18%
Grail silty clay loam,till, 0 to 2 percent slopes			0.14	0.00%
Grail-Belfield clay loams, 2 to 6 percent slopes			3.1	0.04%
Grail-Farland silt loams, 2 to 6 percent slopes			0.98	0.01%
Grail-Savage silty clay loams, 2 to 6 percent slopes			12.94	0.16%
Grano silty clay, 0 to 1 percent slopes	1.63	0.02%		
Grassna silt loam, 0 to 2 percent slopes			40.02	0.48%
Grassna silt loam, loess, 0 to 2 percent slopes			20.92	0.25%
Grassna silt loam, loess, 2 to 6 percent slopes			11.54	0.14%
Gwinner-Peever complex, 0 to 3 percent slopes			6.24	0.08%
Hamar fine sandy loam, 0 to 1 percent slopes	16.61	0.20%		
Hamar loamy fine sand, 0 to 1 percent slopes	5.32	0.06%		
Hamerly-Bohnsack, saline-Tonka complex, 0 to 3 percent slopes			4.95	0.06%
Hamerly-Tonka complex, 0 to 3 percent slopes			27.79	0.34%
Hamerly-Tonka-Parnell complex, 0 to 3 percent slopes			96.83	1.17%
Hamerly-Wyard loams, 0 to 3 percent slopes			53.24	0.65%
Harriet loam, 0 to 2 percent slopes	8.67	0.11%		
Harriet loam, 0 to 2 percent slopes, occasionally flooded	28.39	0.34%		

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Harriet-Regan-Stirum complex, 0 to 2 percent slopes, occasionally flooded	11.25	0.14%		
Havrelon fine sandy loam, 0 to 2 percent slopes, occasionally flooded			19.04	0.23%
Havrelon loam, 0 to 2 percent slopes, occasionally flooded			18.58	0.23%
Havrelon silty clay loam, 0 to 2 percent slopes, occasionally flooded			8.75	0.11%
Hecla loamy fine sand, 0 to 2 percent slopes			73.93	0.90%
Hecla-Garborg fine sandy loams, 0 to 2 percent slopes			41.59	0.50%
Hecla-Garborg fine sandy loams, stratified substratum, 0 to 2 percent slopes			5.9	0.07%
Hecla-Garborg loamy fine sands, 0 to 2 percent slopes			96.05	1.16%
Hecla-Garborg loamy fine sands, stratified substratum, 0 to 2 percent slopes			4.57	0.06%
Hecla-Garborg-Arveson complex, 0 to 2 percent slopes			13.94	0.17%
Hecla-Garborg-Arveson, slightly saline complex, stratified substratum, 0 to 2 percent slopes			14.66	0.18%
Hecla-Hamar loamy fine sands, 0 to 2 percent slopes			24.8	0.30%
Hecla-Maddock fine sandy loams, 2 to 6 percent slopes			6.39	0.08%
Hegne-Fargo silty clay loams, 0 to 1 percent slopes	4.32	0.05%		
Heil silt loam, 0 to 1 percent slopes	1.3	0.02%		
Kindred silt loam, stratified substratum, 0 to 2 percent slopes			54.94	0.67%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Kindred-Bearden silty clay loams, 0 to 2 percent slopes			46.36	0.56%
Korchea-Fluvaquents complex, channeled, 0 to 2 percent slopes, frequently flooded			8.95	0.11%
Kratka-Letcher fine sandy loams, 0 to 2 percent slopes	19.64	0.24%		
Krem-Lihen loamy fine sands, 0 to 6 percent slopes			3.71	0.05%
Krem-Lihen loamy fine sands, 6 to 9 percent slopes			9.03	0.11%
Krem-Lihen loamy fine sands, 9 to 15 percent slopes			7.13	0.09%
La Prairie loam, 0 to 2 percent slopes, occasionally flooded			3.17	0.04%
La Prairie loam, wooded, 0 to 2 percent slopes, rarely flooded			1.69	0.02%
La Prairie-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded			1.57	0.02%
La Prairie-Fluvaquents, channeled complex, wooded, 0 to 6 percent slopes, frequently flooded			3.67	0.04%
LaDelle silty clay loam, 0 to 2 percent slopes, occasionally flooded			9.16	0.11%
LaDelle-Fluvaquents, channeled complex, 0 to 6 percent slopes, frequently flooded			1.38	0.02%
Lamoure silt loam, 0 to 1 percent slopes, frequently flooded	7.34	0.09%		
Lamoure silt loam, 0 to 1 percent slopes, occasionally flooded	0.47	0.01%		
Lamoure silty clay loam, saline, 0 to 1 percent slopes, occasionally flooded	6.73	0.08%		

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Lamoure, saline-Fluvaquents, channeled complex, 0 to 6 percent slopes, frequently flooded	3.06	0.04%		
Lamoure-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	2.48	0.03%		
Lankin loam, 0 to 2 percent slopes			8.38	0.10%
Lankin-Gardena-Tonka complex, 0 to 2 percent slopes			139.23	1.69%
Lawther silty clay, 2 to 6 percent slopes			9.2	0.11%
Lehr loam, 0 to 2 percent slopes			22.44	0.27%
Lehr loam, 2 to 6 percent slopes			1.59	0.02%
Lehr-Bowdle loams, 2 to 6 percent slopes			33.02	0.40%
Lehr-Bowdle loams, 6 to 9 percent slopes			1.15	0.01%
Letcher fine sandy loam, 0 to 2 percent slopes			7.52	0.09%
Lihen loamy fine sand, 0 to 2 percent slopes			71.48	0.87%
Lihen-Livona-Parshall complex, 9 to 15 percent slopes			6.49	0.08%
Lihen-Parshall complex, 0 to 6 percent slopes			12.57	0.15%
Lihen-Parshall-Telfer complex, 6 to 9 percent slopes			12.07	0.15%
Lihen-Telfer loamy fine sands, 0 to 6 percent slopes			68.35	0.83%
Lihen-Telfer loamy fine sands, 6 to 9 percent slopes			14.36	0.17%
Linton-Mandan silt loams, 2 to 6 percent slopes			2.89	0.03%
Livona-Flaxton fine sandy loams, 6 to 9 percent slopes			7.54	0.09%
Livona-Williams fine sandy loams, 9 to 15 percent slopes			19.97	0.24%
Lowe loam, 0 to 1 percent slopes, occasionally flooded	1.26	0.02%		

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Lowe-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	3.5	0.04%		
Maddock-Hecla loamy fine sands, 2 to 6 percent slopes			3.25	0.04%
Mandan-Linton silt loams, 0 to 2 percent slopes			8.21	0.10%
Manning fine sandy loam, 0 to 6 percent slopes			1.02	0.01%
Manning fine sandy loam, 2 to 6 percent slopes			4.86	0.06%
Mantador-Delamere-Wyndmere fine sandy loams, slightly saline, stratified substratum, 0 to 2 percent slopes			117.67	1.43%
Mckeen-Fluvaquents complex, channeled, 0 to 2 percent slopes, frequently flooded	0.77	0.01%		
Miranda-Noonan loams, 3 to 6 percent slopes			1	0.01%
Miscellaneous water			0	0.00%
Morton-Cabba silt loams, 6 to 9 percent slopes			13.92	0.17%
Morton-Farland silt loams, 3 to 6 percent slopes			59.27	0.72%
Morton-Werner silt loams, 6 to 9 percent slopes			8.38	0.10%
Mustinka silty clay loam, 0 to 1 percent slopes	8.04	0.10%		
Nahon silt loam, 0 to 1 percent slopes			13.02	0.16%
Niobell-Noonan loams, 0 to 3 percent slopes			2.81	0.03%
Niobell-Noonan loams, 3 to 6 percent slopes			2.07	0.03%
Noonan-Niobell-Williams loams, 0 to 6 percent slopes			8.16	0.10%
Nutley silty clay, 6 to 9 percent slopes			2.67	0.03%
Omio-Amor complex, 3 to 6 percent slopes			44.2	0.54%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Omio-Amor silt loams, 3 to 6 percent slopes			2.85	0.03%
Omio-Amor silt loams, 6 to 9 percent slopes			7.66	0.09%
Omio-Grassna silt loams, 0 to 3 percent slopes			35.43	0.43%
Orthents-Aquents-Urban land, highway complex, 0 to 35 percent slopes			6.59	0.08%
Overly silt loam, 0 to 2 percent slopes			0	0.00%
Overly silty clay loam, 0 to 2 percent slopes			44.04	0.53%
Overly-Bearden silt loams, 0 to 2 percent slopes			0.4	0.00%
Overly-Nutley silty clay loams, 2 to 6 percent slopes			1.01	0.01%
Parnell silty clay loam, 0 to 1 percent slopes	16.5	0.20%		
Parshall fine sandy loam, 0 to 2 percent slopes			8.55	0.10%
Parshall fine sandy loam, 2 to 6 percent slopes			2.35	0.03%
Parshall-Lihen fine sandy loams, 0 to 2 percent slopes			68.18	0.83%
Parshall-Lihen fine sandy loams, 0 to 6 percent slopes			16.58	0.20%
Parshall-Lihen fine sandy loams, 2 to 6 percent slopes			81.4	0.99%
Parshall-Lihen fine sandy loams, 6 to 9 percent slopes			1.99	0.02%
Perella loam, clayey substratum, 0 to 1 percent slopes	0.52	0.01%		
Perella silty clay loam, 0 to 1 percent slopes	1.06	0.01%		
Perella silty clay loam, clayey substratum, 0 to 1 percent slopes	3.77	0.05%		
Perella silty clay loam, stratified substratum, 0 to 1 percent slopes	7.24	0.09%		

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Portal fine sandy loam, 0 to 2 percent slopes			0.26	0.00%
Reeder-Arnegard loams, 0 to 3 percent slopes			2.79	0.03%
Reeder-Arnegard loams, 3 to 6 percent slopes			34.62	0.42%
Regan silt loam, 0 to 2 percent slopes, occasionally flooded	11.57	0.14%		
Regan silt loam, strongly saline, 0 to 1 percent slopes, occasionally flooded	3.61	0.04%		
Regan silt loam, very poorly drained, 0 to 1 percent slopes	1.86	0.02%		
Regan silty clay loam, 0 to 2 percent slopes, occasionally flooded	0.33	0.00%		
Regent-Janesburg complex, 0 to 3 percent slopes			6.71	0.08%
Regent-Janesburg complex, 3 to 6 percent slopes			53.37	0.65%
Regent-Janesburg complex, 6 to 9 percent slopes			3	0.04%
Regent-Savage silty clay loams, 3 to 6 percent slopes			24.82	0.30%
Regent-Savage silty clay loams, 6 to 9 percent slopes			3.51	0.04%
Renshaw-Sioux complex, 0 to 6 percent slopes			7.09	0.09%
Renshaw-Sioux complex, 2 to 6 percent slopes			5.78	0.07%
Rhoades-Daglum complex, 0 to 6 percent slopes			40.22	0.49%
Rhoades-Daglum complex, 2 to 9 percent slopes			2.52	0.03%
Rhoades-Daglum complex, 6 to 9 percent slopes			2.27	0.03%
Rhoades-Daglum-Rhoades, severely eroded complex, 0 to 9 percent slopes			0.75	0.01%
Riverwash, 0 to 1 percent slopes, frequently flooded	2.55	0.03%		

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Roseglen silt loam, 0 to 2 percent slopes			79.08	0.96%
Rosewood fine sandy loam, 0 to 1 percent slopes	2.95	0.04%		
Ryan-Fargo silty clays, 0 to 1 percent slopes	15.1	0.18%		
Savage silty clay loam, 0 to 2 percent slopes			0.56	0.01%
Savage silty clay loam, 2 to 6 percent slopes			3.65	0.04%
Savage silty clay loam, 6 to 9 percent slopes			0.45	0.01%
Sen silt loam, 3 to 6 percent slopes			9.24	0.11%
Sen silt loam, 9 to 15 percent slopes			6.41	0.08%
Sen-Chama silt loams, 3 to 6 percent slopes			21.84	0.26%
Sen-Chama silt loams, 6 to 9 percent slopes			19.64	0.24%
Sen-Janesburg silt loams, 3 to 6 percent slopes			8.79	0.11%
Sen-Janesburg silt loams, 6 to 9 percent slopes			12.06	0.15%
Sen-Werner complex, 9 to 15 percent slopes			15.94	0.19%
Serden fine sand, 6 to 35 percent slopes			5.47	0.07%
Serden-Hamar complex, 0 to 15 percent slopes			15.34	0.19%
Seroco-Telfer complex, 2 to 35 percent slopes			24.38	0.30%
Shambo loam, 0 to 2 percent slopes			2.44	0.03%
Shambo loam, 2 to 6 percent slopes			11.28	0.14%
Sioux-Arvilla-Renshaw complex, 6 to 9 percent slopes			0.29	0.00%
Southam silty clay loam, 0 to 1 percent slopes	10.33	0.13%	-	-
Spottswood loam, dry, 0 to 2 percent slopes			5.65	0.07%
Stirum-Arveson, saline fine sandy loams, 0 to 1 percent slopes	57.95	0.70%		

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Stirum-Fossum fine sandy loams, 0 to 1 percent slopes	9.22	0.11%		
Straw loam, 0 to 2 percent slopes			8.75	0.11%
Straw loam, 0 to 2 percent slopes, rarely flooded			14.62	0.18%
Straw-Fluvaquents channeled, complex, 0 to 2 percent slopes, frequently flooded			14.25	0.17%
Svea loam, 0 to 3 percent slopes			7.95	0.10%
Svea-Cavour loams, 0 to 3 percent slopes			15.81	0.19%
Svea-Cresbard loams, 0 to 3 percent slopes			14.28	0.17%
Swenoda fine sandy loam, 0 to 3 percent slopes			26.57	0.32%
Swenoda-Barnes fine sandy loams, 0 to 3 percent slopes			9.46	0.11%
Tally-Parshall fine sandy loams, 2 to 6 percent slopes			0.76	0.01%
Tally-Parshall fine sandy loams, 6 to 9 percent slopes			1.37	0.02%
Tansem loam, 6 to 9 percent slopes			0.55	0.01%
Tansem-Lehr loams, 0 to 2 percent slopes			3.94	0.05%
Tansem-Roseglen silt loams, 2 to 6 percent slopes			10.82	0.13%
Telfer loamy fine sand, 6 to 15 percent slopes			6.21	0.08%
Telfer-Lihen loamy fine sands, 9 to 15 percent slopes			0.39	0.00%
Telfer-Parshall-Vebar complex, 6 to 15 percent slopes			8.05	0.10%
Telfer-Seroco complex, 2 to 9 percent slopes			21.67	0.26%
Temvik silt loam, 0 to 3 percent slopes			39.6	0.48%
Temvik silt loam, 3 to 6 percent slopes			110.03	1.33%
Temvik silt loam, 6 to 9 percent slopes			6.46	0.08%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Temvik-Wilton silt loams, 0 to 3 percent slopes			8.09	0.10%
Temvik-Wilton-Williams silt loams, 3 to 6 percent slopes			6.22	0.08%
Tiffany loam, stratified substratum, 0 to 1 percent slopes	6.2	0.08%		
Tonka silt loam, 0 to 1 percent slopes	9.34	0.11%		
Tonka-Parnell complex, 0 to 1 percent slopes	2.34	0.03%		
Towner fine sandy loam, 0 to 3 percent slopes			9.68	0.12%
Towner-Barnes complex, 3 to 6 percent slopes			2.67	0.03%
Towner-Hecla fine sandy loams, 0 to 3 percent slopes			12.34	0.15%
Ulen fine sandy loam, 0 to 2 percent slopes			44.9	0.54%
Vallers loam, saline, 0 to 1 percent slopes	1.05	0.01%		
Vallers, saline-Manfred complex, 0 to 1 percent slopes	4.72	0.06%		
Vallers, saline-Parnell complex, 0 to 1 percent slopes	3.41	0.04%		
Vebar fine sandy loam, 0 to 3 percent slopes			12.48	0.15%
Vebar fine sandy loam, 3 to 6 percent slopes			7.86	0.10%
Vebar fine sandy loam, 6 to 9 percent slopes			24.5	0.30%
Vebar-Arikara-Flasher complex, 9 to 50 percent slopes			5.07	0.06%
Vebar-Cohagen fine sandy loams, 6 to 9 percent slopes			123.66	1.50%
Vebar-Cohagen fine sandy loams, 9 to 15 percent slopes			57.58	0.70%
Vebar-Flasher complex, 9 to 15 percent slopes			2.82	0.03%
Vebar-Flasher-Tally complex, 9 to 15 percent slopes			47.38	0.57%
Vebar-Parshall fine sandy loams, 3 to 6 percent slopes			103.14	1.25%
Vebar-Williams complex, 0 to 6 percent slopes			9.08	0.11%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Velva fine sandy loam, 0 to 2 percent slopes, occasionally flooded			3.36	0.04%
Venlo fine sandy loam, 0 to 1 percent slopes	0.47	0.01%		
Venlo fine sandy loam, stratified substratum, 0 to 1 percent slopes	5.02	0.06%		
Wabek-Appam complex, 6 to 9 percent slopes			2.72	0.03%
Wabek-Appam sandy loams, 6 to 25 percent slopes			7.41	0.09%
Wabek-Cabba-Shambo complex, 6 to 35 percent slopes			3.14	0.04%
Wabek-Lehr complex, 2 to 6 percent slopes			25	0.30%
Wabek-Lehr-Appam complex, 9 to 25 percent slopes			9.29	0.11%
Wabek-Manning complex, 6 to 15 percent slopes			5.24	0.06%
Wahpeton silty clay, 0 to 2 percent slopes, occasionally flooded			3.29	0.04%
Wahpeton-Cashel silty clays, 1 to 15 percent slopes, occasionally flooded			0.77	0.01%
Water[3]			14.32	0.17%
Werner-Amor loams, 9 to 15 percent slopes			1.24	0.02%
Werner-Amor-Arnegard loams, 9 to 50 percent slopes			88.31	1.07%
Werner-Chama-Sen silt loams, 9 to 15 percent slopes			52.33	0.63%
Wheatville-Mantador-Delamere silt loams, slightly saline, clayey substratum, 0 to 2 percent slopes			9.77	0.12%
Williams loam, 6 to 9 percent slopes			47.4	0.57%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Williams-Bowbells loams, 0 to 3 percent slopes			49.12	0.60%
Williams-Bowbells loams, 3 to 6 percent slopes			357.13	4.33%
Williams-Falkirk loams, 0 to 3 percent slopes			6.23	0.08%
Williams-Niobell loams, 3 to 6 percent slopes			3.09	0.04%
Williams-Reeder loams, 3 to 6 percent slopes			7.4	0.09%
Williams-Reeder loams, 6 to 9 percent slopes			4.34	0.05%
Williams-Zahl loams, 3 to 6 percent slopes			4.45	0.05%
Williams-Zahl loams, 6 to 9 percent slopes			19.04	0.23%
Williams-Zahl-Bowbells complex, 3 to 9 percent slopes, very stony			1.74	0.02%
Williams-Zahl-Zahill complex, 6 to 9 percent slopes			89.26	1.08%
Wilton silt loam, 0 to 3 percent slopes			119.51	1.45%
Wyndmere fine sandy loam, 0 to 2 percent slopes			1.47	0.02%
Wyndmere loam, moderately saline, stratified substratum, 0 to 2 percent slopes			7.07	0.09%
Wyndmere loam, slightly saline, stratified substratum, 0 to 2 percent slopes			184.71	2.24%
Zahl-Max loams, 15 to 25 percent slopes			4.25	0.05%
Zahl-Max loams, dissected, 15 to 45 percent slopes			5.91	0.07%
Zahl-Max-Arnegard loams, 15 to 60 percent slopes			2	0.02%
Zahl-Max-Arnegard loams, 9 to 25 percent slopes			5.76	0.07%
Zahl-Max-Bowbells loams, 6 to 35 percent slopes			6.09	0.07%

Table D2: Soil Map Units Located within the Midwest Carbon Express Project Siting Corridor - North Dakota				
Map Unit[1]	Hydric Soil (acres)	Percentage Hydric Soil Unit Within 200' Siting Corridor[2]	Non-hydric Soil (acres)	Percentage of Non-hydric Soil Unit Within 200' Siting Corridor[2]
Zahl-Williams loams, 9 to 15 percent slopes			65.62	0.80%
Zahl-Williams-Zahill complex, 6 to 9 percent slopes			9.52	0.12%
Zell-Eckman silt loams, 9 to 15 percent slopes			6.15	0.07%
Grand Total	**1,041.22**	**12.62%**	**7,212.20**	**87.43%**
[1]Waterbody crossings are included as non-hydric units				
[2]200' Siting Corridor comprises 8,253.42 acres				
[3]Major river crossings - James River, Sheyenne River, Maple River, Missouri River, Bois de Sioux River				

Table D3: Hydrologic Units and Major Waterbodies within the Midwest Carbon Express Project Siting Corridor – North Dakota

Table D3: Hydrologic Units within the Midwest Carbon Express Project Siting Corridor – North Dakota	
Hydrologic Unit Code 8 (HUC8)	**HUC Name**
09020205	Maple River
09020204	Lower Sheyenne
09020105	Western Wild Rice
09020101	Bois De Sioux River
10160003	Upper James River
10160004	Elm River
10130104	Beaver Creek
10130103	Apple Creek
10130101	Painted Woods - Square Butte Creek
10130201	Knife
10130102	Upper Lake Oahe
10130203	Lower Heart
10130106	West Missouri Coteau

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor – North Dakota

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
Burleigh County					
S_9_BU_623_DT	PEM	0.013773	47.01088	-100.609	§ 404
W_2_BU_051_DT	PEM	0.092005	46.83429	-100.562	§ 404
W_9_BU_336_DT	PEM	0.00539	46.98321	-100.863	§ 404
W_9_BU_339_DT	PEM	0.444877	46.97649	-100.876	§ 404
W_9_BU_354_DT	PEM	0.098639	47.01363	-100.788	§ 404
W_9_BU_364_DT	PEM	0.480769	47.01164	-100.664	§ 404
W_9_BU_619_DT	PEM	0.009996	46.87123	-100.582	§ 404
W_9_BU_622_DT	PEM	0.53955	47.01014	-100.607	§ 404
W_9_BU_624_DT	PEM	0.014563	47.01269	-100.754	§ 404
W2004BU001	PEM	2.864204	46.73491	-100.585	§ 404
W2004BU004	PEM	0.060569	46.7338	-100.585	§ 404
W2004BU005	PEM	0.56086	46.7101	-100.573	§ 404
W2004BU006	PEM	0.015617	46.70238	-100.564	§ 404
W2004BU007	PSS	0.057534	46.70268	-100.564	§ 404
W2004BU008	PEM	0.127128	46.70268	-100.564	§ 404
W2004BU009_PEM	PEM	0.470947	46.70155	-100.563	§ 404
W2004BU009_PSS	PSS	0.083515	46.70171	-100.563	§ 404
W2004BU011	PEM	0.284035	46.70069	-100.561	§ 404
W2004BU016	PEM	0.52758	46.67558	-100.499	§ 404
W2004BU098	PEM	0.254819	46.96363	-100.926	§ 404
W2004BU099	PEM	0.026264	46.9634	-100.925	§ 404
W2004BU138	PEM	0.037607	46.86003	-100.583	§ 404
W2006BU143	PSS	0.21397	46.70123	-100.562	§ 404
W2021BU009	PEM	0.686879	46.82385	-100.561	§ 404
W2021BU010	PEM	0.824447	46.82302	-100.562	§ 404
W2021BU011	PEM	0.706139	46.81638	-100.558	§ 404
W2021BU022	PEM	0.409265	46.76612	-100.587	§ 404
W2021BU023	PEM	0.401585	46.75952	-100.586	§ 404
W2021BU024	PEM	0.754343	46.74181	-100.585	§ 404
W2021BU025	PEM	1.809806	46.73781	-100.585	§ 404
W2021BU027	PEM	0.317145	46.68022	-100.51	§ 404
W2023BU038	PEM	0.240551	46.87116	-100.582	§ 404
W2023BU127	PEM	0.699934	46.81346	-100.555	§ 404
W3333BU006	PEM	0.739813	46.76638	-100.587	§ 404
W3919BU379	PEM	0.106072	46.97322	-100.881	§ 404
W3919BU380	PEM	0.27297	46.92463	-100.581	§ 404
W3919BU381	PEM	1.049481	46.94524	-100.573	§ 404
W3919BU383	PEM	0.309229	46.9763	-100.577	§ 404
W3919BU384	PEM	0.60388	47.00804	-100.599	§ 404
W3919BU385	PEM	0.575645	46.99928	-100.587	§ 404
W3919BU386	PEM	0.231587	46.99653	-100.58	§ 404
W3919BU387	PEM	1.21757	47.00828	-100.602	§ 404
W3919BU391	PEM	0.921667	47.01134	-100.647	§ 404
W3919BU393	PEM	0.093524	47.01167	-100.656	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W3919BU396	PEM	0.144065	47.01208	-100.675	§ 404
W3919BU397	PEM	0.010265	47.01445	-100.73	§ 404
W3919BU399	PEM	1.057352	47.01359	-100.748	§ 404
W3919BU400	PEM	2.112256	47.01248	-100.755	§ 404
W3919BU402	PEM	0.047008	47.01242	-100.754	§ 404
W3919BU403	PEM	0.095705	47.01247	-100.752	§ 404
W3919BU404	PEM	0.303122	47.01283	-100.751	§ 404
W3919BU408	PEM	0.383684	46.98291	-100.853	§ 404
W3919BU409	PEM	0.033626	46.98281	-100.859	§ 404
W3919BU410	PFO	0.165989	46.98178	-100.869	§ 404
W3919BU412	PEM	1.598459	46.91164	-100.582	§ 404
W4919BU388	PEM	0.678408	47.00985	-100.607	§ 404
Cass County					
W_2_CA_002_DT	PEM	0.004108	46.89825	-97.2631	§ 404
W_2_CA_401_DT	PEM	0.078665	46.6618	-97.1573	§ 404
W_2_CA_403_DT	PEM	0.0207	46.64397	-97.157	§ 404
W_9_CA_503_DT	PEM	0.944989	46.74142	-97.2066	§ 404
W2001CA116	PEM	0.106451	46.71644	-97.2025	§ 404
W2006CA001	PEM	0.029535	46.66222	-97.1573	§ 404
W2006CA002	PEM	0.001822	46.65862	-97.1572	§ 404
W2006CA003	PEM	0.058803	46.64398	-97.1566	§ 404
W2014CA153	PEM	0.628561	46.7974	-97.2338	§ 404
W2014CA154	PEM	0.169089	46.79751	-97.2343	§ 404
W2014CA159	PEM	0.017062	46.70206	-97.1995	§ 404
W2015CA185	PEM	0.020407	46.89003	-97.2629	§ 404
W2015CA210	PEM	0.760166	46.83532	-97.2857	§ 404
W2015CA211	PEM	0.3452	46.83424	-97.2856	§ 404
W2015CA212	PEM	0.118377	46.87314	-97.2645	§ 404
W2023CA031	PEM	0.016725	46.68262	-97.1783	§ 404
W2023CA032	PEM	0.163318	46.70143	-97.1997	§ 404
W2023CA039	PFO	0.309219	46.74557	-97.2067	§ 404
W2023CA083	PEM	0.007705	46.89733	-97.2631	§ 404
W2023CA084	PEM	0.064804	46.89823	-97.2627	§ 404
W2023CA085	PEM	0.069418	46.89941	-97.2628	§ 404
W2222CA045	PEM	0.207734	46.89076	-97.2627	§ 404
W3322CA001	PEM	0.060362	46.87321	-97.2711	§ 404
W3322CA002	PEM	0.530768	46.87539	-97.2738	§ 404
W3322CA003	PEM	0.263829	46.87645	-97.2738	§ 404
Dickey County					
W_2_DI_049_DT	PEM	0.365143	45.95897	-98.5343	§ 404
W_2_DI_050_DT	PEM	0.06058	45.95891	-98.5333	§ 404
W_2_DI_051_DT	PEM	0.138962	45.95894	-98.5321	§ 404
W_2_DI_052_DT	PEM	0.074356	45.95895	-98.5304	§ 404
W_2_DI_053_DT	PEM	0.066731	45.95891	-98.5278	§ 404
W_2_DI_058_DT	PEM	0.214933	45.99008	-98.3539	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W_2_DI_088_DT	PEM	0.239015	45.95421	-98.5602	§ 404
W_2_DI_095_DT	PEM	0.654232	45.98837	-98.3567	§ 404
W_2_DI_228_DT	PEM	0.252049	45.95406	-98.5548	§ 404
W_2_DI_229_DT	PEM	0.31602	45.95521	-98.5493	§ 404
W_2_DI_239_DT	PEM	0.0193	45.99048	-98.3544	§ 404
W_2_DI_240_DT	PEM	0.499219	45.99073	-98.3507	§ 404
W_2_DI_241_DT	PEM	0.110326	45.99102	-98.3471	§ 404
W_2_DI_242_DT	PEM	0.011154	45.99172	-98.3431	§ 404
W_2_DI_283_DT	PEM	0.14481	45.95365	-98.5656	§ 404
W_2_DI_284_DT	PEM	0.178875	45.95319	-98.5659	§ 404
W_2_DI_285_DT	PEM	0.088323	45.95425	-98.5581	§ 404
W_2_DI_291_DT	PEM	0.265351	45.96324	-98.3798	§ 404
W_2_DI_294_DT	PEM	0.184882	45.98657	-98.3589	§ 404
W_2_DI_295_DT	PEM	0.586092	45.99041	-98.3535	§ 404
W_2_DI_344_DT	PEM	0.377954	45.95539	-98.5491	§ 404
W_9_DI_426_DT	PEM	0.678758	46.04503	-98.127	§ 404
W_9_DI_429_DT	PEM	0.188156	46.04514	-98.125	§ 404
W_9_DI_430_DT	PEM	1.669586	46.04502	-98.1221	§ 404
W_9_DI_431_DT	PEM	2.046779	46.04525	-98.1143	§ 404
W_9_DI_432_DT	PEM	0.12166	46.04545	-98.1107	§ 404
W_9_DI_433_DT	PEM	0.609474	46.04529	-98.1071	§ 404
W_9_DI_509_DT	PEM	0.019667	45.99908	-98.2255	§ 404
W_9_DI_635_DT	PEM	0.081175	46.05719	-98.0442	§ 404
W_9_DI_636_DT	PEM	0.034782	46.05542	-98.0507	§ 404
W_9_DI_637_DT	PEM	0.219283	46.05436	-98.0547	§ 404
W_9_DI_641_DT	PEM	0.685336	46.05212	-98.078	§ 404
W_9_DI_642_DT	PEM	0.083111	46.04808	-98.0806	§ 404
W_9_DI_643_DT	PEM	0.33807	46.04385	-98.0968	§ 404
W_9_DI_655_DT	PEM	0.071921	45.95864	-98.5278	§ 404
W_9_DI_656_DT	PEM	0.308784	45.95867	-98.532	§ 404
W_9_DI_657_DT	PEM	0.132223	45.95877	-98.5345	§ 404
W_9_DI_658_DT	PEM	0.40835	45.95898	-98.5375	§ 404
W_9_DI_659_DT	PEM	0.137862	45.95868	-98.5403	§ 404
W_9_DI_661_DT	PEM	0.045353	45.95515	-98.5486	§ 404
W_9_DI_662_DT	PEM	0.08696	45.95505	-98.549	§ 404
W2001DI226	PEM	0.384409	46.05743	-98.0442	§ 404
W2001DI227	PEM	0.539188	46.05964	-98.036	§ 404
W2001DI228	PEM	0.272149	46.05902	-98.0377	§ 404
W2001DI229	PEM	0.058664	46.06129	-98.0263	§ 404
W2001DI230	PEM	7.020769	46.06101	-98.0222	§ 404
W2001DI231	PEM	3.674841	46.05946	-98.0159	§ 404
W2004DI116	PEM	0.273576	46.00043	-98.2155	§ 404
W2004DI118	PEM	0.520466	45.99997	-98.2166	§ 404
W2004DI120	PEM	0.007289	46.00004	-98.2188	§ 404
W2004DI121	PEM	0.52221	45.99943	-98.2208	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2004DI122	PEM	1.026852	45.99925	-98.2229	§ 404
W2004DI123	PEM	0.512472	45.99904	-98.2251	§ 404
W2004DI139	PEM	0.000318	45.99789	-98.2361	§ 404
W2004DI140	PEM	0.180339	45.99753	-98.2365	§ 404
W2004DI141	PEM	0.276774	45.99689	-98.2377	§ 404
W2004DI142	PEM	0.103909	45.99684	-98.2385	§ 404
W2004DI143	PEM	0.035819	45.9957	-98.2408	§ 404
W2004DI144	PEM	0.576852	45.99523	-98.2416	§ 404
W2004DI146	PEM	0.068512	45.99502	-98.2432	§ 404
W2004DI147	PEM	0.016219	45.99411	-98.2455	§ 404
W2004DI148	PEM	0.035354	46.00789	-98.1975	§ 404
W2004DI150	PEM	0.134739	46.00692	-98.1988	§ 404
W2004DI151	PEM	0.115109	46.00556	-98.2019	§ 404
W2004DI152	PEM	0.304531	46.00369	-98.2045	§ 404
W2004DI153	PEM	0.62053	46.00309	-98.2063	§ 404
W2004DI154	PEM	0.2702	46.0021	-98.2101	§ 404
W2004DI156	PEM	0.67318	46.0006	-98.214	§ 404
W2004DI158	PEM	0.050037	46.00071	-98.2149	§ 404
W2004DI159	PEM	0.022505	46.00057	-98.2151	§ 404
W2004DI160	PEM	0.021581	45.99819	-98.2292	§ 404
W2004DI161	PEM	0.396352	45.99813	-98.233	§ 404
W2004DI163	PEM	0.364097	45.9977	-98.2349	§ 404
W2004DI164	PEM	0.206785	46.00983	-98.196	§ 404
W2004DI165	PEM	0.203145	46.00962	-98.1971	§ 404
W2004DI166	PEM	0.061367	46.00892	-98.1978	§ 404
W2004DI167	PEM	0.224474	46.009	-98.1969	§ 404
W2005DI036	PEM	1.144078	45.99234	-98.2664	§ 404
W2005DI038	PEM	0.41819	45.99189	-98.2738	§ 404
W2005DI039	PEM	0.321737	45.99192	-98.275	§ 404
W2005DI040	PEM	0.087218	45.99151	-98.2759	§ 404
W2005DI041	PEM	0.343193	45.99141	-98.2808	§ 404
W2005DI042	PEM	1.224971	45.99141	-98.2865	§ 404
W2005DI043	PEM	0.463332	45.99219	-98.2932	§ 404
W2005DI046	PEM	4.255286	45.9606	-98.4131	§ 404
W2005DI047	PEM	0.534725	45.96035	-98.4173	§ 404
W2005DI048	PEM	0.085885	45.96052	-98.4194	§ 404
W2005DI049	PEM	0.754476	45.96	-98.4233	§ 404
W2005DI050	PEM	0.337776	45.95983	-98.4249	§ 404
W2005DI051	PEM	0.049984	45.95949	-98.4258	§ 404
W2005DI052	PEM	0.117519	45.95994	-98.4271	§ 404
W2005DI054	PEM	0.009556	45.95948	-98.4309	§ 404
W2005DI055	PEM	0.032714	45.95949	-98.4337	§ 404
W2005DI056	PEM	1.210579	45.95979	-98.4362	§ 404
W2005DI057	PEM	1.036773	45.95921	-98.5166	§ 404
W2005DI058	PEM	1.3511	45.95925	-98.5182	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2005DI059	PEM	0.047222	45.95948	-98.5215	§ 404
W2005DI060	PEM	0.018993	45.95308	-98.5692	§ 404
W2005DI061	PEM	0.005905	45.9535	-98.5768	§ 404
W2005DI062	PEM	0.081208	45.95312	-98.5798	§ 404
W2005DI063	PEM	0.744301	45.95325	-98.5822	§ 404
W2005DI064	PEM	0.000297	45.95374	-98.5848	§ 404
W2005DI066	PEM	0.028414	45.95356	-98.5872	§ 404
W2005DI067	PEM	0.041062	45.9536	-98.5896	§ 404
W2005DI068	PEM	0.320542	45.95459	-98.6093	§ 404
W2005DI070	PEM	1.237348	45.955	-98.6121	§ 404
W2005DI071	PEM	0.151998	45.95568	-98.6156	§ 404
W2005DI072	PEM	0.375494	45.95616	-98.6219	§ 404
W2005DI073	PEM	0.070824	45.95599	-98.6256	§ 404
W2005DI075	PEM	0.382401	45.95626	-98.6269	§ 404
W2005DI076	PEM	0.302749	45.95601	-98.6294	§ 404
W2005DI077	PEM	0.128945	45.95632	-98.6307	§ 404
W2005DI078	PEM	0.021685	45.95586	-98.6307	§ 404
W2005DI079	PEM	0.486561	45.9556	-98.6366	§ 404
W2005DI080	PEM	0.07991	45.95466	-98.6412	§ 404
W2005DI081	PEM	0.376027	45.95447	-98.6449	§ 404
W2005DI082	PEM	0.047437	45.95425	-98.6482	§ 404
W2005DI083	PEM	0.437985	45.95392	-98.6501	§ 404
W2005DI084	PEM	0.11022	45.95403	-98.6519	§ 404
W2006DI117	PEM	0.105579	45.95407	-98.6524	§ 404
W2006DI118	PEM	0.944968	45.9541	-98.6538	§ 404
W2006DI119	PEM	0.634433	45.95277	-98.6642	§ 404
W2015DI092	PEM	0.417895	45.94857	-98.6732	§ 404
W2015DI093	PEM	0.037291	45.9465	-98.6797	§ 404
W2015DI094	PEM	0.021982	45.95409	-98.6006	§ 404
W2015DI096	PEM	0.000034	45.95904	-98.5277	§ 404
W2015DI100	PEM	0.000151	45.9591	-98.5344	§ 404
W2015DI102	PEM	0.217316	45.95898	-98.538	§ 404
W2015DI103	PEM	0.044098	45.95938	-98.5058	§ 404
W2015DI104	PEM	0.367319	45.9592	-98.5043	§ 404
W2015DI105	PEM	0.198832	45.95913	-98.503	§ 404
W2015DI106	PEM	0.075918	45.95899	-98.4965	§ 404
W2015DI107	PEM	0.261027	45.95688	-98.449	§ 404
W2015DI108	PEM	0.073478	45.95705	-98.4539	§ 404
W2015DI109	PEM	0.411362	45.95692	-98.4572	§ 404
W2015DI110	PEM	0.020816	45.95717	-98.4586	§ 404
W2015DI111	PEM	0.057706	45.95652	-98.4608	§ 404
W2015DI112	PEM	0.545025	45.95693	-98.4638	§ 404
W2015DI113	PEM	0.139445	45.95703	-98.4636	§ 404
W2015DI122	PEM	1.76719	45.96008	-98.3928	§ 404
W2015DI123	PEM	0.12869	46.03547	-98.1605	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2015DI124	PEM	0.31269	46.03067	-98.1623	§ 404
W2015DI125	PEM	2.609899	45.99329	-98.251	§ 404
W2022DI013	PEM	2.394137	46.04503	-98.1332	§ 404
W2022DI014	PEM	7.65708	46.045	-98.1438	§ 404
W2022DI015	PEM	0.588895	46.045	-98.1518	§ 404
W2022DI016	PEM	0.037094	45.95883	-98.5246	§ 404
W2022DI017	PEM	0.349059	45.99288	-98.2974	§ 404
W2023DI030	PEM	1.128537	46.02334	-98.178	§ 404
W2023DI060	PEM	0.218986	45.9603	-98.4015	§ 404
W2023DI061	PEM	1.047119	45.96027	-98.3998	§ 404
W2023DI062	PEM	0.743405	45.96016	-98.3977	§ 404
W2023DI063	PEM	0.095799	45.95981	-98.3963	§ 404
W2023DI064	PEM	0.1527	45.95993	-98.3948	§ 404
W2023DI068	PEM	1.927358	46.01216	-98.1927	§ 404
W2023DI069	PEM	1.885199	46.01399	-98.1901	§ 404
W2023DI070	PEM	0.594368	46.01534	-98.1883	§ 404
W2023DI071	PEM	1.122773	46.0169	-98.1864	§ 404
W2023DI072	PEM	0.379079	46.01748	-98.1852	§ 404
W2023DI073	PEM	0.183578	46.01822	-98.1848	§ 404
W2023DI088	PEM	0.692184	45.96017	-98.4035	§ 404
W2023DI089	PEM	0.133676	45.96065	-98.4048	§ 404
W2023DI090	PEM	0.734599	45.96062	-98.4059	§ 404
W2023DI091	PEM	0.296274	45.96054	-98.4106	§ 404
W2023DI105	PEM	0.041422	45.95878	-98.4855	§ 404
W2023DI106	PEM	3.053189	45.95895	-98.4831	§ 404
W2023DI166	PEM	2.171162	46.05463	-98.0547	§ 404
W2023DI167	PEM	0.695117	46.0557	-98.0505	§ 404
W2024DI003	PEM	0.399347	45.99315	-98.3207	§ 404
W2024DI005	PEM	0.008103	45.99324	-98.3239	§ 404
W2024DI006	PEM	0.021504	45.99319	-98.3255	§ 404
W2024DI007	PEM	0.003289	45.99263	-98.3269	§ 404
W2024DI008	PEM	0.005964	45.99316	-98.3274	§ 404
W2024DI009	PEM	0.086285	45.99268	-98.329	§ 404
W2024DI010	PEM	0.166013	45.99256	-98.3309	§ 404
W2024DI011	PEM	0.097185	45.99291	-98.3315	§ 404
W2024DI012	PEM	0.025165	45.99246	-98.3325	§ 404
W2024DI013	PEM	0.022801	45.99198	-98.3357	§ 404
W2024DI014	PEM	0.070845	45.99184	-98.3375	§ 404
W2024DI015	PEM	0.898289	45.99188	-98.3391	§ 404
W2024DI016	PEM	0.608662	45.9931	-98.3167	§ 404
W2024DI017	PEM	0.252268	45.99332	-98.3156	§ 404
W2024DI018	PEM	0.214457	45.993	-98.315	§ 404
W2024DI019	PEM	1.960386	45.99333	-98.3104	§ 404
W2024DI020	PEM	0.507248	45.99278	-98.2626	§ 404
W2024DI022	PEM	0.333744	46.02199	-98.1798	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2024DI023	PEM	0.719719	46.01956	-98.1829	§ 404
W2025DI002	PEM	0.039465	45.96555	-98.3747	§ 404
W2233DI005	PEM	0.11312	45.95868	-98.4787	§ 404
W2233DI007	PEM	0.200063	45.95917	-98.4391	§ 404
W2244DI017	PEM	1.245385	46.04506	-98.1315	§ 404
W2244DI019	PEM	0.248031	46.04488	-98.1535	§ 404
W2244DI021	PEM	0.031956	46.04428	-98.1568	§ 404
W2244DI022	PEM	0.001886	46.04165	-98.1581	§ 404
W2244DI023	PEM	0.03386	46.04012	-98.1586	§ 404
W2244DI024	PEM	0.117454	46.03744	-98.1594	§ 404
W2244DI025	PEM	1.777137	45.95897	-98.4868	§ 404
W2244DI026	PEM	0.086655	45.95896	-98.4895	§ 404
W2244DI027	PEM	0.014265	45.95923	-98.4904	§ 404
W2244DI028	PEM	0.704666	45.95904	-98.4924	§ 404
W2244DI029	PEM	0.129662	45.95885	-98.494	§ 404
W2244DI030	PEM	0.053964	45.95892	-98.4959	§ 404
W2244DI052	PSS	0.220223	45.95545	-98.5477	§ 404
W2244DI054	PEM	0.10515	45.95812	-98.5421	§ 404
W2244DI055	PEM	0.766852	45.95888	-98.5402	§ 404
W2244DI056	PEM	0.089717	45.95904	-98.5391	§ 404
W2244DI070	PEM	0.05226	45.95545	-98.4541	§ 404
W2244DI071	PEM	1.053654	45.95871	-98.4764	§ 404
W2244DI072	PEM	0.703379	45.95905	-98.4777	§ 404
W3919DI416	PEM	0.339963	45.9899	-98.2789	§ 404
W3919DI417	PEM	0.057393	45.99044	-98.2819	§ 404
W3919DI418	PEM	0.22405	45.99227	-98.2917	§ 404
W3919DI419	PEM	0.068375	45.95776	-98.4683	§ 404
Emmons County					
W_9_EM_378_DT	PEM	1.152995	46.47329	-100.186	§ 404
W_9_EM_404_DT	PEM	0.219198	46.44266	-100.139	§ 404
W_9_EM_406_DT	PEM	0.628809	46.41938	-100.116	§ 404
W_9_EM_420_DT	PEM	0.132463	46.35297	-99.9985	§ 404
W_9_EO_618_DT	PEM	0.021926	46.37534	-100.002	§ 404
W2001EM217	PEM	0.628606	46.32627	-99.9644	§ 404
W2002EM050	PEM	0.186114	46.53688	-100.292	§ 404
W2002EM051	PEM	0.666348	46.53661	-100.292	§ 404
W2004EM017	PEM	0.025444	46.63003	-100.434	§ 404
W2004EM018	PEM	0.041639	46.62941	-100.434	§ 404
W2004EM019	PEM	0.071061	46.62758	-100.432	§ 404
W2004EM020	PEM	1.852362	46.62692	-100.43	§ 404
W2004EM021	PEM	0.320696	46.62583	-100.428	§ 404
W2004EM022	PEM	0.782526	46.62391	-100.424	§ 404
W2004EM024	PEM	0.190447	46.57812	-100.349	§ 404
W2004EM025	PEM	0.217248	46.5774	-100.348	§ 404
W2004EM026	PEM	1.798632	46.57665	-100.347	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2004EM027	PEM	0.798326	46.56245	-100.322	§ 404
W2004EM028	PEM	0.018124	46.55545	-100.314	§ 404
W2004EM029	PEM	0.017494	46.54703	-100.305	§ 404
W2008EM001	PEM	0.016918	46.28274	-99.8912	§ 404
W2009EM024	PEM	0.063696	46.49514	-100.232	§ 404
W2009EM043_PEM	PEM	1.641908	46.61938	-100.412	§ 404
W2009EM043_PSS	PSS	0.058395	46.6196	-100.413	§ 404
W2012EM032	PEM	0.315719	46.61933	-100.401	§ 404
W2023EM016	PEM	0.104619	46.59027	-100.356	§ 404
W2023EM017	PEM	0.103756	46.59046	-100.356	§ 404
W2023EM018	PEM	0.053393	46.59183	-100.356	§ 404
W2023EM019	PEM	0.00825	46.59247	-100.356	§ 404
W2023EM020	PEM	0.012592	46.59305	-100.356	§ 404
W2023EM021	PEM	0.158106	46.59461	-100.356	§ 404
W2222EM039	PEM	0.376244	46.51337	-100.264	§ 404
W2222EM040	PEM	0.087998	46.48774	-100.214	§ 404
W2222EM041	PEM	0.592817	46.48734	-100.214	§ 404
W2244EO073	PEM	0.006287	46.47293	-100.186	§ 404
W3919EO371	PEM	0.04472	46.46568	-100.168	§ 404
W3919EO372	PEM	0.104269	46.46294	-100.16	§ 404
W3919EO373	PEM	0.032359	46.37853	-100.003	§ 404
W3919EO376	PEM	0.17827	46.4485	-100.143	§ 404
W3919EO378	PEM	0.259441	46.47304	-100.186	§ 404
McIntosh County					
W_9_MC_423_DT	PEM	1.11453	45.95041	-99.4221	§ 404
W_9_MC_617_DT	PEM	0.00909	46.165	-99.6909	§ 404
W2002MC001	PEM	0.657121	46.03562	-99.543	§ 404
W2002MC002	PEM	0.040231	45.98394	-99.4569	§ 404
W2002MC040	PEM	0.023229	46.058	-99.572	§ 404
W2002MC301	PEM	0.045513	46.03558	-99.5426	§ 404
W2002MC302	PEM	0.083412	46.03604	-99.5431	§ 404
W2006MC148	PEM	0.437224	46.03627	-99.5433	§ 404
W2006MC149	PEM	0.10784	45.9755	-99.4424	§ 404
W2006MC150	PEM	0.499636	45.97256	-99.4424	§ 404
W2006MC151	PEM	0.238269	45.96882	-99.4354	§ 404
W2006MC152	PEM	1.046074	45.96877	-99.4331	§ 404
W2008MC002	PEM	0.119658	46.24075	-99.8384	§ 404
W2008MC003	PEM	0.197301	46.23374	-99.8272	§ 404
W2008MC004	PEM	0.160884	46.22997	-99.82	§ 404
W2008MC005	PEM	0.404893	46.19647	-99.759	§ 404
W2008MC007	PEM	0.362497	46.19157	-99.7471	§ 404
W2008MC008	PEM	0.284485	46.18945	-99.7415	§ 404
W2008MC010	PEM	0.168798	46.1713	-99.7002	§ 404
W2008MC011	PEM	0.379158	46.16527	-99.6906	§ 404
W2009MC026	PEM	0.130811	46.12922	-99.6377	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2015MC181	PEM	1.381098	46.17619	-99.7105	§ 404
W2015MC182	PEM	0.132675	46.17681	-99.7132	§ 404
W2015MC183	PEM	0.290983	46.17765	-99.7152	§ 404
W2015MC184	PEM	0.143261	46.17814	-99.7167	§ 404
W2021MC026	PEM	0.092996	45.96816	-99.4301	§ 404
W2022MC018	PEM	0.068597	46.16529	-99.6911	§ 404
Morton County					
W_9_MO_627_DT	PEM	0.121412	46.96408	-101.01	§ 404
W_9_MO_628_DT	PEM	0.09199	46.96681	-101.151	§ 404
W_9_MO_629_DT	PEM	0.007515	46.98077	-101.221	§ 404
W_9_MO_630_DT	PEM	0.011235	46.98075	-101.23	§ 404
W_9_MO_631_DT	PEM	0.139996	46.98056	-101.262	§ 404
W2010MO010	PEM	0.042687	46.98065	-101.179	§ 404
W2010MO011	PEM	0.05044	46.98019	-101.18	§ 404
W2010MO017	PEM	0.472539	46.97945	-101.189	§ 404
W2010MO019	PEM	0.914896	46.98088	-101.25	§ 404
W2015MO139	PEM	0.734871	46.98079	-101.262	§ 404
W2015MO140	PEM	0.720358	46.98091	-101.259	§ 404
W2015MO141	PEM	0.239078	46.98106	-101.23	§ 404
W2015MO142	PEM	0.173369	46.98091	-101.221	§ 404
W2015MO143	PEM	0.036387	46.98128	-101.218	§ 404
W2015MO146	PEM	0.175695	46.98122	-101.2	§ 404
W2015MO191	PEM	0.314659	46.96412	-100.949	§ 404
W2022MO031	PEM	0.631363	46.9586	-101.088	§ 404
W2022MO032	PEM	0.333807	46.95826	-101.074	§ 404
W2022MO033	PEM	0.011877	46.95839	-101.068	§ 404
W2022MO035	PEM	0.177541	46.95813	-101.062	§ 404
W2022MO036	PEM	0.178957	46.96256	-101.021	§ 404
W2022MO038	PEM	0.641163	46.96521	-101.007	§ 404
W2023MO010	PEM	1.037362	46.96006	-101.026	§ 404
W2023MO011	PEM	0.170628	46.96099	-101.023	§ 404
W2023MO013	PEM	0.361708	46.96252	-101.019	§ 404
W2023MO014	PEM	0.079908	46.966	-101.006	§ 404
W2023MO015	PEM	0.170043	46.9679	-101.004	§ 404
W2023MO027	PEM	0.418278	46.98093	-101.239	§ 404
W2023MO028	PEM	0.045996	46.98121	-101.231	§ 404
W2023MO092	PFO	0.135641	46.95693	-101.033	§ 404
W2023MO160	PEM	0.008426	46.96309	-101.018	§ 404
W2023MO163	PEM	0.260539	46.96391	-101.01	§ 404
W3323MO001	PEM	0.015374	46.95753	-101.111	§ 404
W3333MO001	PEM	0.461965	46.96396	-100.952	§ 404
W3333MO002	PFO	0.279718	46.96409	-100.95	§ 404
Oliver County					
W_RSC_003_DT	PEM	0.10055	46.98648	-101.187	§ 404
W2002OL501	PEM	1.012187	47.03358	-101.545	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2009OL047	PEM	1.48452	46.99839	-101.44	§ 404
W2009OL048	PEM	0.125112	47.01841	-101.499	§ 404
W2010OL024	PEM	0.628914	47.0112	-101.474	§ 404
W2010OL025	PEM	0.142454	47.05668	-101.604	§ 404
W2015OL136	PEM	0.307473	47.03816	-101.556	§ 404
W2015OL229	PEM	0.044625	46.98486	-101.395	§ 404
W2015OL230	PEM	1.718942	46.98778	-101.401	§ 404
W2015OL231	PEM	0.724272	46.98865	-101.403	§ 404
W2021OL014	PEM	0.131372	47.04499	-101.191	§ 404
W2021OL015	PEM	0.488992	47.03393	-101.191	§ 404
W2021OL020	PEM	0.000577	46.98844	-101.186	§ 404
W2021OL021	PEM	0.130515	46.98648	-101.186	§ 404
W2023OL025	PEM	0.293966	46.99996	-101.444	§ 404
W2023OL026	PEM	0.078248	47.0003	-101.445	§ 404
W2023OL029	PEM	0.243423	47.0291	-101.193	§ 404
W2023OL093	PEM	0.010628	47.01646	-101.185	§ 404
W2023OL094	PEM	0.884038	47.01144	-101.183	§ 404
W2023OL128	PEM	0.183885	47.0566	-101.205	§ 404
W2023OL130	PEM	0.00681	47.05601	-101.203	§ 404
W2222OL036	PEM	0.18891	47.0303	-101.536	§ 404
W2222OL037	PEM	0.00214	47.03021	-101.534	§ 404
W2222OL038	PEM	0.036347	47.05661	-101.204	§ 404
Richland County					
W_2_RI_128_DT	PEM	0.00744	46.20367	-96.9051	§ 404
W_9_RI_099_DT_USACE	PEM	0.316157	46.30958	-97.0394	§ 404
W_9_RI_500_DT	PEM	0.195982	46.20359	-96.7243	§ 404
W_9_RI_609_DT	PEM	0.137829	46.59155	-97.1066	§ 404
W_9_RI_610_DT	PEM	0	46.44887	-97.0613	§ 404
W_9_RI_638_DT	PEM	3.136684	46.19269	-97.0723	§ 404
W_9_RI_DT_504	PEM	0.146458	46.2971	-97.0416	§ 404
W2004RI130	PEM	0.097658	46.20326	-96.9749	§ 404
W2006RI006	PEM	0.10778	46.58946	-97.1048	§ 404
W2006RI007	PEM	0.192194	46.58793	-97.1048	§ 404
W2006RI009	PEM	0.051366	46.20395	-96.8863	§ 404
W2006RI010	PEM	0.500819	46.20395	-96.9218	§ 404
W2006RI011	PEM	0.052839	46.20395	-96.9903	§ 404
W2006RI012	PEM	0.000522	46.20359	-96.9903	§ 404
W2006RI013	PEM	0.056785	46.54368	-97.0735	§ 404
W2006RI014	PEM	0.080503	46.54342	-97.0734	§ 404
W2006RI015	PEM	0.043399	46.23961	-97.0308	§ 404
W2006RI069	PEM	0.000227	46.20311	-96.6581	§ 404
W2006RI070	PEM	0.00083	46.20318	-96.6787	§ 404
W2006RI071	PEM	0.146981	46.20354	-96.7467	§ 404
W2006RI072	PEM	0.023752	46.20364	-96.8036	§ 404
W2006RI073	PEM	0.038569	46.20397	-96.8036	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2007RI046	PEM	0.037057	46.54837	-97.0738	§ 404
W2014RI160	PEM	0.546941	46.28179	-97.0422	§ 404
W2014RI161	PEM	0.730771	46.27904	-97.0422	§ 404
W2014RI162	PEM	1.292833	46.27312	-97.0422	§ 404
W2014RI163	PEM	0.007189	46.20364	-97.0054	§ 404
W2014RI164	PEM	0.405799	46.20379	-97.0011	§ 404
W2014RI165	PEM	0.025104	46.20333	-96.9486	§ 404
W2014RI166	PEM	0.633893	46.20347	-96.9585	§ 404
W2014RI167	PEM	0.258564	46.20329	-96.9342	§ 404
W2014RI168	PEM	1.092855	46.18937	-97.2405	§ 404
W2014RI169	PEM	0.491268	46.18936	-97.2479	§ 404
W2015RI031	PEM	0.169078	46.20656	-96.6164	§ 404
W2015RI032	PEM	0.172416	46.20672	-96.6159	§ 404
W2015RI033	PEM	0.074306	46.20285	-96.6787	§ 404
W2015RI034	PEM	0.32529	46.20299	-96.6794	§ 404
W2015RI035	PEM	0.506587	46.20395	-96.8336	§ 404
W2015RI036	PEM	0.02196	46.20374	-96.8343	§ 404
W2015RI037	PEM	0.032093	46.20412	-96.8343	§ 404
W2015RI038	PEM	0.417131	46.20396	-96.8348	§ 404
W2015RI039	PEM	0.018315	46.20381	-96.8452	§ 404
W2015RI040	PEM	0.083418	46.204	-96.8454	§ 404
W2015RI208_PEM	PEM	4.560531	46.18914	-97.2229	§ 404
W2015RI208_PFO	PFO	0.208782	46.18929	-97.2223	§ 404
W2015RI209	PEM	0.860336	46.18911	-97.227	§ 404
W2015RI233	PEM	0.218107	46.59162	-97.1065	§ 404
W2015SA205	PEM	0.059126	46.18952	-97.2592	§ 404
W2023RI076	PEM	0.074216	46.53063	-97.0732	§ 404
W2023RI077	PEM	0.056078	46.52403	-97.0771	§ 404
W2023RI078	PEM	4.536204	46.1938	-97.1702	§ 404
W2023RI079	PEM	1.410083	46.19384	-97.1743	§ 404
W2023RI080	PEM	1.472665	46.1938	-97.1762	§ 404
W2023RI087	PEM	0.090767	46.38354	-97.0568	§ 404
W2023RI141	PEM	0.115975	46.18945	-97.2187	§ 404
W2023RI142	PEM	0.00513	46.18926	-97.2179	§ 404
W2023RI143	PEM	4.652214	46.19103	-97.2135	§ 404
W2023RI144	PEM	0.54433	46.19184	-97.2097	§ 404
W2023RI145	PEM	1.438807	46.19209	-97.2077	§ 404
W2023RI146	PEM	0.442078	46.19266	-97.2033	§ 404
W2023RI147	PEM	0.518104	46.19308	-97.2017	§ 404
W2023RI148	PEM	0.716823	46.19303	-97.1985	§ 404
W2023RI157	PEM	0.337082	46.19116	-97.1257	§ 404
W2023RI168	PEM	1.201762	46.1934	-97.0742	§ 404
W2023RI169	PEM	0.867308	46.19246	-97.0757	§ 404
W2024RI030	PEM	0.045747	46.18904	-97.2366	§ 404
W2024RI031	PEM	1.83837	46.18923	-97.2317	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2024RI033	PEM	0.106492	46.19352	-97.1936	§ 404
W2024RI034	PEM	0.22061	46.19318	-97.1976	§ 404
W2222RI045	PEM	0.040263	46.20399	-96.8243	§ 404
W2244RI066	PEM	0.175735	46.48591	-97.0616	§ 404
W3322RI001	PEM	0.138473	46.19274	-97.0748	§ 404
W3322RI002	PEM	0.035348	46.36913	-97.0516	§ 404
W3322RI005	PEM	0.333863	46.20378	-96.7839	§ 404
W3322RI006	PEM	0.053439	46.20347	-96.7414	§ 404
W3322RI009	PEM	0.005734	46.20326	-96.6579	§ 404
W3322RI011	PEM	1.525447	46.59709	-97.1257	§ 404
W3322RI012	PEM	0.94756	46.5966	-97.1235	§ 404
W3323RI001	PEM	1.187475	46.61671	-97.1487	§ 404
W3323RI002	PSS	1.275372	46.44426	-97.0609	§ 404
W3323RI003	PEM	0.169605	46.4194	-97.0612	§ 404
W3323RI004	PEM	1.040339	46.41401	-97.061	§ 404
W3919RI359_PEM	PEM	0.904297	46.6151	-97.1486	§ 404
W3919RI359_PFO	PFO	1.277368	46.61539	-97.1486	§ 404
W3919RI363	PEM	0.056851	46.34069	-97.0519	§ 404
Sargent County					
W_2_SA_207_DT	PEM	0.172455	46.18173	-97.4782	§ 404
W_2_SA_329_DT	PEM	0.006537	46.16167	-97.654	§ 404
W_9_SA_326_DT_USACE	PEM	1.279407	46.11642	-97.8262	§ 404
W_9_SA_327_DT_USACE	PEM	1.144321	46.11643	-97.825	§ 404
W_9_SA_448_DT	PEM	0.134393	46.17342	-97.6311	§ 404
W_9_SA_508_DT	PEM	0.029799	46.10311	-97.8668	§ 404
W_9_SA_634_DT	PEM	0.037836	46.06723	-97.9355	§ 404
W2001SA209	PEM	0.684401	46.18118	-97.4784	§ 404
W2001SA210	PEM	0.428168	46.18076	-97.4797	§ 404
W2001SA211	PEM	0.109527	46.1802	-97.481	§ 404
W2001SA212	PEM	0.111742	46.18051	-97.4845	§ 404
W2001SA213	PEM	0.058693	46.18048	-97.4823	§ 404
W2001SA232	PEM	0.378244	46.0592	-97.9877	§ 404
W2002SA083	PEM	0.016516	46.18191	-97.4676	§ 404
W2002SA085	PEM	0.988006	46.18166	-97.4632	§ 404
W2002SA087	PEM	0.826991	46.18165	-97.4607	§ 404
W2002SA088	PEM	0.161662	46.18153	-97.4596	§ 404
W2002SA089	PEM	0.215982	46.17743	-97.5081	§ 404
W2002SA090	PEM	0.054429	46.1778	-97.5101	§ 404
W2002SA091	PEM	0.057071	46.17813	-97.5216	§ 404
W2002SA092	PEM	0.002856	46.17876	-97.5227	§ 404
W2002SA093	PEM	0.167824	46.18132	-97.5272	§ 404
W2002SA094	PEM	0.687197	46.18071	-97.5507	§ 404
W2002SA095	PEM	0.726631	46.18084	-97.5475	§ 404
W2002SA096	PEM	0.142919	46.1812	-97.5428	§ 404
W2002SA097	PEM	0.835098	46.18145	-97.5298	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2005SA001	PEM	0.376922	46.17485	-97.6228	§ 404
W2005SA004	PEM	0.018538	46.17458	-97.6271	§ 404
W2005SA005	PEM	0.177403	46.17425	-97.6264	§ 404
W2005SA006	PEM	0.79548	46.17413	-97.6278	§ 404
W2005SA007	PEM	0.353316	46.1735	-97.6314	§ 404
W2005SA008	PEM	0.000193	46.17336	-97.6342	§ 404
W2005SA009	PEM	0.133699	46.17261	-97.6346	§ 404
W2005SA010	PEM	0.491787	46.17078	-97.6395	§ 404
W2005SA011	PEM	0.248377	46.1696	-97.6435	§ 404
W2005SA013	PEM	0.312894	46.16755	-97.6455	§ 404
W2005SA014	PEM	0.166099	46.16532	-97.6469	§ 404
W2005SA015	PEM	0.159426	46.16335	-97.6514	§ 404
W2005SA016	PEM	0.008681	46.16167	-97.6539	§ 404
W2005SA017	PEM	2.305608	46.1299	-97.7632	§ 404
W2005SA018	PEM	0.192631	46.12178	-97.8008	§ 404
W2005SA019	PEM	0.02825	46.12158	-97.8024	§ 404
W2005SA020	PEM	0.480142	46.11886	-97.8104	§ 404
W2005SA021	PEM	1.987728	46.11772	-97.8133	§ 404
W2005SA022	PEM	0.040061	46.10718	-97.852	§ 404
W2005SA023	PEM	0.173844	46.10647	-97.854	§ 404
W2005SA024	PEM	0.546229	46.10544	-97.8583	§ 404
W2005SA025	PEM	1.349335	46.10282	-97.8664	§ 404
W2005SA026	PEM	0.268454	46.09739	-97.8767	§ 404
W2005SA027	PEM	0.570015	46.09809	-97.8758	§ 404
W2005SA028	PEM	1.096282	46.09583	-97.8814	§ 404
W2006SA016	PEM	0.396746	46.18166	-97.4012	§ 404
W2006SA018	PEM	0.134169	46.18134	-97.4081	§ 404
W2006SA019	PEM	1.230328	46.1815	-97.4316	§ 404
W2006SA020	PEM	0.920373	46.18149	-97.4388	§ 404
W2006SA021	PEM	0.321824	46.18155	-97.44	§ 404
W2006SA022	PEM	0.047726	46.18164	-97.4468	§ 404
W2006SA023	PEM	0.106272	46.18124	-97.4462	§ 404
W2006SA024	PEM	0.191838	46.18136	-97.4474	§ 404
W2006SA025	PEM	1.050312	46.18152	-97.4487	§ 404
W2006SA026	PEM	3.072526	46.18154	-97.4518	§ 404
W2006SA027	PEM	0.060647	46.18179	-97.4544	§ 404
W2006SA028	PEM	0.031401	46.1818	-97.4554	§ 404
W2006SA029	PEM	1.025368	46.18159	-97.4565	§ 404
W2006SA030	PEM	1.079802	46.18178	-97.4694	§ 404
W2006SA031	PEM	0.580662	46.18176	-97.4722	§ 404
W2006SA032	PEM	0.878965	46.18189	-97.4742	§ 404
W2006SA033	PEM	0.103778	46.18157	-97.4731	§ 404
W2006SA034	PEM	0.035003	46.18159	-97.475	§ 404
W2006SA035	PEM	0.191491	46.18165	-97.477	§ 404
W2006SA036	PEM	0.284202	46.18184	-97.4778	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2006SA037	PEM	0.148999	46.18079	-97.4884	§ 404
W2006SA038	PEM	0.252274	46.17999	-97.4914	§ 404
W2006SA039	PEM	1.952727	46.17911	-97.4996	§ 404
W2006SA040	PEM	0.130325	46.17836	-97.5039	§ 404
W2006SA074	PEM	0.078796	46.19032	-97.2937	§ 404
W2006SA075	PEM	0.01802	46.19044	-97.2939	§ 404
W2006SA076_PEM	PEM	4.895104	46.19038	-97.2966	§ 404
W2006SA076_PFO	PFO	0.248061	46.19041	-97.2989	§ 404
W2007SA041	PEM	0.171947	46.1766	-97.6189	§ 404
W2007SA048	PEM	0.707108	46.15289	-97.6787	§ 404
W2007SA049	PEM	0.025457	46.1463	-97.6894	§ 404
W2007SA050	PEM	0.319942	46.14608	-97.6907	§ 404
W2007SA051	PEM	0.010609	46.14074	-97.6985	§ 404
W2009SA029	PEM	0.257597	46.06598	-97.9788	§ 404
W2009SA030	PEM	0.289445	46.06121	-97.9872	§ 404
W2009SA430	PEM	0.331438	46.06565	-97.9849	§ 404
W2014SA171	PEM	1.503688	46.17766	-97.5135	§ 404
W2014SA174	PEM	0.179634	46.17466	-97.626	§ 404
W2014SA175	PEM	0.354566	46.17411	-97.6291	§ 404
W2015SA129	PEM	0.846786	46.10779	-97.8438	§ 404
W2015SA130	PEM	1.680585	46.10728	-97.8478	§ 404
W2015SA131	PEM	0.096307	46.10212	-97.8671	§ 404
W2015SA132	PEM	0.043313	46.10213	-97.8676	§ 404
W2015SA133	PEM	4.519289	46.1005	-97.8703	§ 404
W2015SA134	PEM	0.155588	46.06571	-97.9567	§ 404
W2015SA135	PEM	0.202425	46.06572	-97.9658	§ 404
W2015SA206	PEM	0.973246	46.18971	-97.2648	§ 404
W2015SA207	PEM	0.906999	46.18992	-97.2669	§ 404
W2023SA049	PEM	0.722469	46.06569	-97.9838	§ 404
W2023SA065	PEM	5.2371	46.18661	-97.3274	§ 404
W2023SA066	PEM	0.053476	46.18591	-97.3299	§ 404
W2023SA067	PEM	0.238486	46.18607	-97.3321	§ 404
W2023SA074	PEM	6.708744	46.11694	-97.8219	§ 404
W2023SA131	PEM	0.157657	46.18006	-97.5717	§ 404
W2023SA132	PEM	1.19544	46.17977	-97.5738	§ 404
W2023SA133	PEM	0.975233	46.17979	-97.5767	§ 404
W2023SA134	PEM	0.08743	46.18049	-97.58	§ 404
W2023SA135	PEM	0.089836	46.18088	-97.5797	§ 404
W2023SA137	PEM	0.3703	46.19012	-97.2739	§ 404
W2023SA149	PEM	0.075767	46.18636	-97.3642	§ 404
W2023SA151	PEM	0.112588	46.18653	-97.3665	§ 404
W2023SA153	PEM	0.145354	46.18549	-97.3715	§ 404
W2023SA154	PEM	1.09929	46.18634	-97.363	§ 404
W2023SA155	PEM	0.318659	46.18613	-97.3595	§ 404
W2023SA156	PEM	0.338756	46.18911	-97.309	§ 404

Table D4: Wetlands Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Wetland ID	Wetland Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
W2024SA024	PEM	0.64003	46.12293	-97.7968	§ 404
W2024SA025	PEM	2.137488	46.12388	-97.7899	§ 404
W2024SA026	PEM	0.204827	46.13097	-97.7396	§ 404
W2024SA027	PEM	0.644307	46.13103	-97.7309	§ 404
W2024SA028	PEM	0.018898	46.18053	-97.5636	§ 404
W2222SA014	PEM	0.056858	46.16776	-97.6456	§ 404
W2222SA015	PEM	0.030216	46.16915	-97.6437	§ 404
W2222SA016	PEM	0.062953	46.15511	-97.6718	§ 404
W2222SA017	PEM	0.236882	46.15618	-97.6671	§ 404
W2222SA019	PEM	0.436345	46.15733	-97.6637	§ 404
W2222SA020	PEM	0.168503	46.1577	-97.6625	§ 404
W2222SA021	PEM	0.099868	46.15757	-97.6604	§ 404
W2222SA023	PEM	0.257589	46.15973	-97.6579	§ 404
W2222SA024	PEM	0.488371	46.09481	-97.8838	§ 404
W2222SA025	PEM	0.131118	46.0939	-97.8852	§ 404
W2222SA026	PEM	0.173478	46.10974	-97.8324	§ 404
W2222SA027	PEM	0.289835	46.10947	-97.8317	§ 404
W2222SA043	PEM	0.042336	46.10994	-97.8318	§ 404
W2222SA044	PEM	9.886778	46.11255	-97.8308	§ 404
W3323SA001	PEM	1.29552	46.13274	-97.7131	§ 404
W3323SA002	PEM	1.932572	46.13109	-97.7226	§ 404
W3323SA003	PEM	0.066349	46.1313	-97.7173	§ 404
W3919SA357	PEM	0.24997	46.06742	-97.9359	§ 404
W3919SA358	PEM	0.988488	46.07032	-97.9358	§ 404
W3919SA414	PEM	1.726619	46.17502	-97.6235	§ 404
W3919SA415	PEM	0.058368	46.17188	-97.6411	§ 404

[1] Acreages include wetlands defined within the 200-foot Siting Corridor but do not reflect project impacts to any wetlands.

Table D5: Waterbodies Located within the Midwest Carbon Express Project Siting Corridor – North Dakota

Table D5: Waterbodies Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Waterbody ID	Waterbody Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
Burleigh County					
S_2_BU_023_DT	Perennial	0.203529	46.851584	-100.583301	§ 404
S_9_BU_347_DT	Intermittent	0.301218	46.983884	-100.849921	§ 404
S_9_BU_348_DT	Intermittent	0.220853	46.987305	-100.843815	§ 404
S_9_BU_600_DT	Ephemeral	0.023456	46.992214	-100.817514	§ 404
S_9_BU_625_DT	Ephemeral	0.598095	46.998045	-100.809222	§ 404
S2004BU001	Natural Pond	0.048904	46.735846	-100.584706	§ 404
S2004BU003	Ephemeral	0.029471	46.735488	-100.585007	§ 404
S2004BU019	Manmade Pond	0.035149	46.962671	-100.909027	§ 404
S2004BU020	Ephemeral	0.005901	46.963213	-100.909258	§ 404
S2004BU040	Perennial	0.22596	46.852099	-100.583411	§ 404
S2021BU014	Manmade Pond	0.046643	46.680506	-100.51001	§ 404
S3919BU320	Intermittent	0.427392	46.94453	-100.573458	§ 404
S3919BU386	Manmade Pond	0.124064	46.991469	-100.579573	§ 404
S3919BU403	Perennial	0.152233	47.012469	-100.752089	§ 404
Cass County					
S2009CA005	Ephemeral	0.01379	46.695543	-97.178548	§ 404
S2014CA036	Intermittent	0.1135	46.797345	-97.233607	§ 404
S2023CA005	Perennial	0.210975	46.745415	-97.206699	§ 404
S2222CA009	Intermittent	0.174393	46.831876	-97.28516	§ 404
S2244CA008	Ephemeral	0.051157	46.814715	-97.273933	§ 404
S3322CA001	Intermittent	0.10966	46.872945	-97.27376	§ 404
Dickey County					
S_2_DI_044_DT	Ephemeral	0.026652	45.95404	-98.554876	§ 404
S_2_DI_045_DT	Intermittent	0.059258	45.955291	-98.549151	§ 404
S_2_DI_047_DT	Ephemeral	0.024274	45.988117	-98.35726	§ 404
S_9_DI_427_DT	Intermittent	0.028948	46.045222	-98.125484	§ 404
S_9_DI_428_DT	Intermittent	0.118307	46.044886	-98.125449	§ 404
S_9_DI_644_DT	Ephemeral	0.099716	46.044648	-98.102319	§ 404
S_9_DI_660_DT	Intermittent	0.024669	45.955114	-98.548746	§ 404
S2001DI208	Manmade Pond	0.083626	46.061276	-98.023752	§ 404
S2005DI004	Natural Pond	0.723652	45.959245	-98.517278	§ 404
S2015DI024	Perennial	1.605349	45.946351	-98.678984	§ 404
S2015DI025	Perennial	0.565071	45.95686	-98.44685	§ 404
S2022DI014	Perennial	1.066014	46.044991	-98.140123	§ 10
S2244DI004	Manmade Pond	0.07566	45.955263	-98.547847	§ 404
Emmons County					
S2001EP209	Intermittent	0.117065	46.605729	-100.369108	§ 404
S2002EM007	Perennial	0.059743	46.53682	-100.292244	§ 404
S2004EM005	Intermittent	0.027715	46.577475	-100.348574	§ 404
S2004EM006	Ephemeral	0.010012	46.564752	-100.324854	§ 404
S2004EM007	Ephemeral	0.051626	46.555306	-100.31418	§ 404
S2006EM051	Manmade Pond	0.101042	46.589803	-100.356084	§ 404
S2006EM052	Manmade Pond	0.026579	46.587649	-100.356172	§ 404

Table D5: Waterbodies Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Waterbody ID	Waterbody Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
S2006EM053	Manmade Pond	0.014329	46.586899	-100.355607	§ 404
S2008EM001	Perennial	0.278538	46.28253	-99.891074	§ 404
S2008EM002	Perennial	0.31939	46.270532	-99.879976	§ 404
McIntosh County					
S2001MC001	Ephemeral	0.103715	46.008643	-99.511009	§ 404
S2001MC002	Ephemeral	0.022757	46.006169	-99.507563	§ 404
S2001MC003	Ephemeral	0.021666	45.961044	-99.421748	§ 404
S2002MC001	Ephemeral	0.028951	45.987233	-99.464051	§ 404
S2006MC054	Ephemeral	0.01418	46.062206	-99.582405	§ 404
S2006MC055	Manmade Pond	0.16028	46.060684	-99.578542	§ 404
S2006MC056	Ephemeral	0.010371	46.06102	-99.579036	§ 404
S2006MC057	Ephemeral	0.000565	46.060733	-99.578848	§ 404
S2006MC058	Ephemeral	0.014886	45.983137	-99.455328	§ 404
S2006MC059	Natural Pond	0.848716	45.968789	-99.435391	§ 404
S2008MC003	Ephemeral	0.354981	46.17783	-99.715628	§ 404
Morton County					
S_2_MO_011_DT	Ephemeral	0.007464	46.964525	-100.979532	§ 404
S2004MO017	Perennial	5.053428	46.963843	-100.934362	§ 10
S2023MO003	Manmade Pond	0.123267	46.960339	-101.025123	§ 404
S2023MO004	Manmade Pond	0.001474	46.961212	-101.022617	§ 404
S2023MO021	Manmade Pond	0.109436	46.964388	-101.009086	§ 404
S3323MO001	Manmade Pond	0.000262	46.95758	-101.111463	§ 404
Oliver County					
S2015OL027	Intermittent	0.012302	47.038141	-101.556201	§ 404
S2015OL028	Manmade Pond	0.126846	46.997819	-101.438527	§ 404
S2015OL046	Manmade Pond	0.18353	46.983682	-101.391573	§ 404
S2015OL047	Natural Pond	0.336383	46.987079	-101.399404	§ 404
S2023OL013	Perennial	0.260422	47.016679	-101.184621	§ 404
S2222OL007	Manmade Pond	0.072998	47.056779	-101.204646	§ 404
Richland County					
S_9_RI_453_DT	Manmade Pond	0.010489	46.593404	-97.111686	§ 404
S_9_RI_601_DT	Perennial	0.000246	46.204198	-96.903232	§ 404
S_9_RI_611_DT	Perennial	0.005407	46.441871	-97.061353	§ 404
S1002WI001	Perennial	0.024531	46.213001	-96.588771	§ 10
S2004RI034	Ephemeral	0.166406	46.203493	-96.776619	§ 404
S2006RI001	Perennial	0.575001	46.57341	-97.094068	§ 404
S2006RI002	Ephemeral	0.022171	46.203387	-96.96968	§ 404
S2006RI017	Perennial	0.30808	46.203545	-96.746461	§ 404
S2006RI019	Ephemeral	0.010608	46.20377	-96.803144	§ 404
S2006RI020	Intermittent	0.023028	46.203848	-96.803615	§ 404
S2007RI012	Perennial	0.153915	46.192484	-97.074828	§ 404
S2007RI014	Intermittent	0.071113	46.470877	-97.061817	§ 404
S2007RI016	Ephemeral	0.001863	46.514289	-97.071363	§ 404
S2014RI038	Intermittent	0.119312	46.203395	-96.96241	§ 404
S2014RI039	Ephemeral	0.016721	46.203404	-96.959155	§ 404

Table D5: Waterbodies Located within the Midwest Carbon Express Project Siting Corridor - North Dakota					
Waterbody ID	Waterbody Type	Acreage[1]	Location		Class of Aquatic Resources
			Latitude	Longitude	
S2014RI041	Ephemeral	0.064909	46.203465	-96.935824	§ 404
S2014RI140	Ephemeral	0.143492	46.203244	-96.9532	§ 404
S2015RI012	Intermittent	0.02337	46.20373	-96.761776	§ 404
S2015RI013	Ephemeral	0.010512	46.2039	-96.762202	§ 404
S2015RI049	Intermittent	0.038671	46.576397	-97.097046	§ 404
S2222RI004	Perennial	0.313925	46.203872	-96.904396	§ 404
S2222RI010	Ephemeral	0.015978	46.51611	-97.072643	§ 404
S3322RI001	Perennial	0.364422	46.192722	-97.076073	§ 404
S3322RI002	Perennial	0.158221	46.354892	-97.052389	§ 404
S3322RI003	Intermittent	0.055525	46.203781	-96.784001	§ 404
S3323RI001	Perennial	0.077862	46.44186	-97.060944	§ 404
S3323RI002	Intermittent	0.09839	46.41284	-97.060786	§ 404
S3323RI003	Perennial	0.177137	46.398278	-97.060711	§ 404
S3323RI004	Intermittent	0.072576	46.268827	-97.042172	§ 404
S3323RI005	Intermittent	0.17724	46.282481	-97.042127	§ 404
S3323RI006	Intermittent	0.101326	46.296723	-97.041857	§ 404
Sargent County					
S_9_SA_039_DT_USACE	Intermittent	0.117274	46.116417	-97.825578	§ 404
S2002SA036	Natural Pond	0.081518	46.181866	-97.46356	§ 404
S2002SA037	Ephemeral	0.096858	46.181514	-97.538401	§ 404
S2006SA003	Ephemeral	0.0167	46.18239	-97.388799	§ 404
S2006SA004	Ephemeral	0.022953	46.182253	-97.390593	§ 404
S2006SA005	Ephemeral	0.003589	46.182286	-97.391976	§ 404
S2006SA006	Natural Pond	0.556357	46.181876	-97.468939	§ 404
S2006SA008	Natural Pond	0.304062	46.181975	-97.474776	§ 404
S2006SA022	Perennial	0.194231	46.190327	-97.293787	§ 404
S2007SA007	Natural Pond	0.240578	46.181795	-97.472176	§ 404
S2007SA020	Ephemeral	0.018009	46.178731	-97.604003	§ 404
S2007SA021	Ephemeral	0.004294	46.178515	-97.604239	§ 404
S2007SA022	Ephemeral	0.015033	46.177531	-97.609276	§ 404
S2233SA001	Manmade Pond	0.135918	46.07005	-97.935908	§ 404

[1] Acreages include waterbodies defined within the 200-foot Siting Corridor but do not reflect project impacts to any waterbodies.

North Dakota Noxious Weed Management Plan
Rev. 1

Project Name:
Summit Carbon Solutions Midwest Carbon Express

Document Number:
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Acronyms and Abbreviations

CO_2	Carbon Dioxide
ECP	Environmental Construction Plan
EI	Environmental Inspector
GPS	Global Positioning System
MCE Project	Midwest Carbon Express Project
NDCC	North Dakota Century Code
NDDA	North Dakota Department of Agriculture
Plan	North Dakota Noxious Weed Management Plan
Project	North Dakota portion of the MCE Project
SCS	Summit Carbon Solutions, LLC

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1 Introduction

SCS Carbon Solutions, LLC (SCS) proposes to construct the Midwest Carbon Express Project (MCE Project). The MCE Project, as proposed, includes approximately 2,000 miles of pipeline for the transportation of carbon dioxide (CO_2) from 31 ethanol plants across five states to underground injection control facilities in North Dakota for safe and permanent sequestration. This plan addresses the construction and operation of approximately 334 miles of pipeline and associated facilities which will be constructed in North Dakota under North Dakota Public Service Commission jurisdiction and will cross through Burleigh, Cass, Dickey, Emmons, Logan, McIntosh, Morton, Oliver, Richland, and Sargent counties (Table 1).

This North Dakota Noxious Weed Management Plan (Plan) has been developed to identify noxious weed control practices that will be implemented for the North Dakota portion of the MCE Project (Project).

Table 1: Project Location

COUNTY	MAINLINE (MILES)	TRUNKLINE (MILES)	LATERALS (MILES)
Burleigh	51.0	--	--
Cass	--	--	22.7
Dickey	--	37.4	--
Emmons	38.5	--	--
Logan	1.8	--	--
McIntosh	34.5	--	--
Morton	23.2	--	0.1
Oliver	12.7	--	6.3
Richland	--	12.3	53.7
Sargent	--	39.7	--
Totals	**161.7**	**89.4**	**82.8**

1.1 North Dakota Weed Laws and Regulations

The North Dakota Noxious Weed Control Law (North Dakota Century Code (NDCC) Title 4.1, Section 4.1-47) imposes stewardship obligations upon local governing bodies (county and city weed boards) as well as public and private landowners throughout the state to control noxious weeds on land they own or control. Local county and city weed boards have responsibility for the implementation and enforcement of weed management in North Dakota. Under section 4.1-47-29 of the NDCC, the agriculture commissioner may quarantine the state or portions of the state if deemed necessary to prevent the spread of noxious weeds.

There are weed boards in all counties of North Dakota (Exhibit 1) and each board operates under the supervision of the North Dakota Department of Agriculture (NDDA). The NDAA Commissioner coordinates the efforts of County Weed Boards and state and federal land managers to implement integrated weed management programs. County Weed Boards control noxious weeds in road rights-of-way and public lands throughout the County to control and prevent the spread of noxious weeds in accordance with NDCC §4.1-47-02. Under the Noxious Weed Control Law, a person may not willfully transport any material that contains noxious weed seeds or propagating parts, on a public road, in a manner that allows for the dissemination of noxious weeds.

Noxious weeds are defined as plants propagated by either seed or vegetative parts and determined to be injurious to public health, crops, livestock, land, or other property (NDDA, 2021). The NDDA Commissioner is responsible for maintaining the state noxious weed list, while the County Weed Boards may designate certain weeds as noxious that are not on the state noxious weed list. Thirteen weeds have been declared noxious in North Dakota (NDCC §4.1-47-03). Four additional weeds have been added to individual county noxious weed list(s) in Cass, Dickey,

Logan, and Sargent counties. The thirteen state-listed species of noxious weeds and the four county-listed noxious weeds species are listed in Appendix 2.

2 Noxious Weed Management Requirements, Commitments, and Guidelines

Noxious weed management requirements and commitments are outlined in the MCE Project's Environmental Construction Plan (ECP). This Plan provides additional guidance to contractors who will be working on the Project.

3 Purpose and Objectives

The purpose of this Plan is to present strategies and best practices to prevent and/or control the spread of noxious weeds during and following construction. This Plan addresses all Project lands within North Dakota and all contractors will be responsible for implementing the practices described in this Plan. SCS will monitor implementation during the construction and post-construction phases to ensure that weed management objectives are achieved.

Project objectives for control of noxious weeds include:

- Acquire information on the occurrence, distribution, and abundance of noxious weeds in the Project area prior to construction;
- Prevent the establishment of new populations of noxious weeds in the Project areas not previously infested, and limit the spread of existing infestations to the extent feasible;
- Minimize possible negative effects to rare flora or fauna within the Project area by control activities;
- Coordinate and consult with designated State and County weed personnel regarding noxious weed control activities conducted by SCS to ensure compatibility with existing weed control protocols; and
- Respond to landowner and/or land-managing agency reports of weeds during the post- construction period.

4 Pre-Construction Surveys

Noxious weed surveys will be conducted by qualified environmental personnel prior to ground disturbance. The surveys would be conducted by biologists who are familiar with the taxonomic characteristics and typical habitats of noxious weeds. Post-construction surveys will be conducted as described in Section 7.

5 Noxious Weed Management

Weeds are spread by a variety of means that may include construction equipment, construction and reclamation materials, livestock, wildlife, vehicles, people, and wind. The risk of establishing weeds increases with ground-disturbing activities (Sheley et al., 1999). This Plan emphasizes: 1) preventing the establishment of new populations of noxious weeds in lands that are currently weed-free; and 2) limiting the spread of existing populations of noxious weeds as feasible. The following section presents strategies to manage noxious weeds during the pre-construction, construction, and post-construction phases of the Project.

5.1 Preventive Measures

- Pre-construction noxious weed surveys will be conducted on all construction areas prior to vegetative clearing. Existing infestations will be described (i.e., species, density, and extent) and recorded with a Global Positioning System (GPS). Noxious weeds that occur adjacent to the right-of-way will be similarly noted in survey forms and GPS records but not mapped.

- SCS will implement weed treatment prior to construction on a species and/or site-specific basis. Pre-construction treatments may include mechanical means (e.g., mowing, clearing) or herbicides, depending on the species present and size of the population.
- If noxious weeds are present, all Contractor vehicles and equipment will arrive at the work site clean and free of noxious weed seeds or parts. Equipment will be cleaned using high-pressure cleaning devices if necessary (air or water). An Environmental Inspector (EI) will inspect and verify that vehicles and equipment are free of soil and debris capable of transporting noxious weed seeds or parts prior to being allowed access to the right-of-way.
- In areas where noxious weeds have been identified, the Contractor will stockpile cleared vegetation and salvaged topsoil adjacent to the area from which they were stripped. Stockpiles containing noxious weed seed or plant parts will be separated from abutting, non-infested stockpiles. During reclamation, the Contractor will return topsoil and vegetative material from infested sites to the areas from which they were originally stripped.
- The Contractor will implement revegetation activities as promptly as possible following construction and when possible, during the optimal seeding and planting window. An adequate vegetative cover greatly reduces the opportunity for invasion by noxious weeds.
- The Contractor will only apply fertilizer to reclaimed areas as directed by the land management agency, EI, or if requested by the landowner. Fertilizer is known to enhance the growth of noxious weeds.
- The Contractor must identify the source of straw/hay bales and mulch used for erosion control to verify that it is noxious weed-free.
- All seed will be certified noxious weed-free.
- Imported gravel and fill material will be source-identified by the Contractor and approved by SCS to ensure that the originating site is noxious weed-free.

5.2 Treatment Methods

Noxious weed treatment will be in accordance with the NDDA, county regulations, or the jurisdictional land management agency. Post-construction control measures may include one or more of the following methods:

- Mechanical methods will include hand-pulling, mowing, or disking weeds. If these methods are used, subsequent seeding may be conducted to re-establish a desirable vegetative cover that will stabilize soils and slow the potential re-invasion of noxious weeds.
- County and State-approved herbicides will be utilized to control noxious weed populations at select sites. Applications will typically be controlled to minimize impacts on surrounding vegetation (specific species and locations will be targeted). In areas of dense infestation, a broader application will be used and a follow-up seeding program implemented if needed. The timing of subsequent revegetation efforts will be based on the life of the selected herbicide and appropriate seeding windows. Herbicide application is discussed in greater detail in Section 6.
- In the event an area is not seeded until the spring following construction because of weather or scheduling constraints, all annual weed species and undesirable vegetation that have become established will be mechanically removed (e.g., disking, harrowing, mowing) as part of the seedbed preparation.
- SCS will respond to landowner reports of post-construction noxious weeds on or adjacent to the right-of-way or aboveground facilities. Where it is determined that new populations have become established, or weed density or extent exceeds that which occurred in pre-construction circumstances, SCS will either treat directly, treat via county or private contractor, or reimburse the landowner for reasonable costs associated with the treatment of documented weeds. Mechanical/cultural control methods or herbicide treatments will be considered.

- It may be necessary or desirable to clear herbaceous and woody vegetation well in advance of grading operations (i.e., pre-clearing). Depending on site conditions, pre-clearing could have the potential to contribute to noxious weed dispersal due to soil disturbance and/or the spreading of plant parts. SCS will implement the following measures to avoid or minimize the spread of weeds during pre- clearing:
  - All pre-clearing equipment will arrive on site clean and free of noxious weed seeds or parts;
  - Vegetation will be cut as close to the ground as possible without disturbing the soil surface;
  - Pre-clearing operations will be reassessed in the event that soil conditions become too saturated to avoid soil degradation (via thawing or rain). SCS may temporarily suspend pre-clearing until conditions improve or use methods that reduce soil disturbance.
  - Depending on site conditions, relevant practices outlined elsewhere in this Plan will be implemented per SCS direction.

Treatment methods will be based on species-specific and site-specific conditions (e.g., plant phenology, proximity to water or riparian areas, agricultural activities, time of year) and will be coordinated with landowners and local regulatory agencies.

5.3 Education

SCS and the Contractor will provide information to their employees regarding noxious weed identification, reporting, and impacts on agriculture, livestock, and wildlife. Information will focus on the critical importance of preventing the spread of noxious weeds in un-infested areas, controlling the proliferation of weeds already present, and the importance of adhering to measures to prevent the spread of noxious weeds.

6 Herbicide Application, Handling, Spills, and Cleanup

Herbicides will be utilized on a limited basis during the pre-construction phase and as the primary control method during the post-construction phase for those species required to be treated by the weed boards. Herbicides used on the Project in North Dakota will first be approved by the respective County Weed Supervisor. All persons applying herbicides will have appropriate and current North Dakota licensing.

6.1 Herbicide Application and Handling

Prior to herbicide application, SCS or a SCS Contractor will obtain any required permits from the Project area counties in North Dakota. All SCS contractors conducting this scope of work will be licensed in herbicide application and will handle, store, and complete herbicide application in accordance with all applicable laws and regulations.

U.S. Environmental Protection Agency herbicide label instructions will be strictly followed, and application of herbicides will be suspended when any of the following conditions exist:

- Wind velocity exceeds six miles per hour for application of liquids or 15 miles per hour for application of granular herbicides;
- Snow or ice covers the foliage of noxious weeds; or
- Precipitation is occurring or imminent.

Vehicle-mounted sprayers (e.g., handgun, boom, injector) will be used primarily in open areas that are readily accessible by vehicle. Hand application methods (e.g., backpack spraying) that target individual plants will be used to treat small, scattered weed populations in rough terrain. Calibration checks of equipment will be conducted at the beginning of spraying and periodically to ensure that proper application rates are achieved.

6.2 Herbicide Spills and Cleanup

All reasonable precautions will be taken to avoid spilling herbicides. In the event of an unintentional herbicide release, immediate action will be taken to clean up the site. All herbicide equipment and containers will be

inspected daily for leaks. A spill kit is required in contractor vehicles used for herbicide application and in herbicide storage areas.

6.3 Worker Safety and Spill Reporting

All herbicide contractors will obtain and have readily available copies of the appropriate Safety Data Sheets for the herbicides being used. Herbicide spills will be reported in accordance with all applicable laws and requirements.

7 Post-Construction Monitoring and Treatment

The focus of SCS' weed management program is to protect weed-free perennial vegetation by monitoring and treating new or expanded post-construction weed populations within the Project work area in North Dakota. Monitoring and management of pre-existing noxious weeds in agricultural areas will be conducted on a case-by-case basis in response to landowner reports.

The distribution and density of noxious weeds will be monitored following construction and reclamation of the right-of-way and other work sites in North Dakota. In cultivated fields and non-native pastures, monitoring surveys would occur in response to landowner reports. Surveys will be conducted as early in the year as feasible to identify and control noxious weeds before they produce seed. Noxious weeds, if present, will be documented on aerial photo-based maps. Estimates will be made for the entire problem area, comparing disturbed and adjacent areas, and may include a range of species cover and density values. The boundaries of new noxious weed populations within the Project will be mapped and located with a GPS unit.

Weed monitoring will be conducted in conjunction with overall revegetation monitoring after the first growing season following revegetation consistent with the ECP. Treatment of noxious weeds will occur if one or more of the following three criteria are met:

- A new noxious weed population is confined to the construction right-of-way;
- A noxious weed population is expanding via the construction right-of-way; and/or
- A noxious weed population is impeding revegetation establishment in the right-of-way.

Weed treatment will be discontinued if weeds are not present for two consecutive years or if adjacent populations are so extensive that continued treatment and monitoring of the right-of- way would be ineffective.

8 References

North Dakota Department of Agriculture (NDDA). 2021. North Dakota Noxious Weed Law and Regulations. North Dakota Department of Agriculture, Plant Industries Division, updated May 2021. Noxious Weeds | North Dakota Department of Agriculture (nd.gov). Accessed December 19, 2023.

NDDA. 2023. County and City Listed Noxious Weeds. North Dakota Department of Agriculture, Plant Industries Division, Revised November 2023. https://www.ndda.nd.gov/sites/www/files/documents/files/2023%20November%20-%20City%20County%20Noxious%20Weeds%20List.pdf. Accessed December 19, 2023.

Sheley, R.L., M. Manoukin, and G. Marks. 1999. Preventing Noxious Weed Invasion, pages 69-72 in, R.L. Sheley and J.K. Petroff, editors. Biology and Management of Noxious Rangeland Weeds. Oregon State University Press.

Appendix 1 –
County and State Weed Supervisor Contacts

COUNTY	CONTACT PERSON / WEED OFFICER	PHONE NUMBER	EMAIL
BURLEIGH	Leon Pederson	701-934-0088	lpederson@nd.gov
CASS	Stanley Wolf	701-298-2388	wolfs@casscountynd.gov
DICKEY	Terry Weis	701-220-0488	taweis03@yahoo.com
EMMONS	CJ Pearce	701-329-9090	cjpearce@nd.gov
LOGAN	Heather Moser	701-989-5464	hl.moser.78@gmail.com
MCINTOSH	Brayden Salzer	701-426-0480	brayden.salzer@gmail.com
MORTON	Cody Schnabel	701-391-8006	cody.schnabel@mortonnd.org
OLIVER	Richard Schmidt	701-207-0010	rick.schmidt@ndsu.edu
RICHLAND	Steve Ginsbach	701-899-2096	ginsbachfarm@yahoo.com
SARGENT	Eric Huemiller	701-429-8014	emeralddiamondlc@aol.com

Appendix 2 –
North Dakota Designated Noxious Weeds and Non-Native Plant Quarantine Species

Thirteen statewide noxious weeds are enforced by all cities and counties in North Dakota.

NORTH DAKOTA STATEWIDE NOXIOUS WEED LIST	
COMMON NAME	**SCIENTIFIC NAME**
Absinth Wormwood	*Artemisia absinthium* L.
Canada Thistle	*Cirsium arvense*
Dalmatian Toadflax	*Linaria genistifolia spp. dalmatica*)
Diffuse Knapweed	*Centaurea diffusa* Lam.
Houndstongue	*Cynoglossum officinale* L.
Leafy Spurge	*Euphorbia esula* L.
Musk Thistle	Carduus nutans L.
Palmer amaranth	*Amaranthus palmeri*
Purple Loosestrife	*Lythrum salicaria* L., *Lythrum virgatum* L., and all cultivars
Russian Knapweed	*Centaurea repens* L.
Saltcedar	*Tamarisk spp.*
Spotted Knapweed	*Centaurea maculosa Lam.*
Yellow Toadflax	*Linaria vulgaris*
Source: North Dakota Noxious Weeds. https://www.nd.gov/ndda/plant-industries/noxious-weeds.	

Counties and cities do have the option to add additional weeds onto a list for enforcement only in their jurisdiction. The following weeds have been added to individual county noxious weed lists crossed by the Project in North Dakota.

COUNTY	COMMON NAME	SCIENTIFIC NAME
Cass	Spotted hemlock	*Cicuta maculata*
Dickey	Downy brome	*Bromus tectorum* L.
Logan	Black henbane	*Hyoscyamus niger* L.
Sargent	Bull thistle	*Cirsium vulgare*
Source: North Dakota County and City Listed Noxious Weeds, Revised November 2023. https://www.ndda.nd.gov/sites/www/files/documents/files/2023%20November%20-%20City%20County%20Noxious%20Weeds%20List.pdf.		

Horizontal Directional Drill
Inadvertent Return Plan Rev 1.

Project Name:
Summit Carbon Solutions Midwest Carbon Express

Document Number:
SCS-0700-ENV-01-PLN-030

Date:
January 26, 2024

REVISION HISTORY

DATE	REVISION	REVISION DESCRIPTION	PREPARED BY:	REVIEWED BY:	APPROVED BY:
10-17-2022	0	Prepare final plan	GY	JS	JZ
1-26-2024	1	Updated plan for Supplemental Filing for PSC's Reconsideration Process	RD	DD	JZ

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1 Introduction

In North Dakota, SCS Carbon Transport LLC (SCS) is proposing to utilize the horizontal directional drill (HDD) crossing method, a trenchless excavation technique during the construction of the Midwest Carbon Express Project. The HDD crossing method will be used to route the pipeline under obstacles including roads, railroads, waterbodies, and sensitive areas and will result in minimal surface impacts.

SCS has prepared this *Horizontal Directional Drill Inadvertent Return Plan* (Plan) which outlines operational procedures and responsibilities for the prevention, containment, and clean-up of inadvertent releases associated with the HDD process. The objective of this Plan is to:

- Minimize the potential for an inadvertent return of drilling fluids associated with HDD activities;
- Provide for the timely detection of inadvertent returns;
- Protect environmentally sensitive areas while responding to an inadvertent return;
- Ensure an organized, timely, and "minimum impact" response in the event of an inadvertent return of drilling fluids; and
- Ensure that all appropriate notifications are made immediately.

2 Drilling Fluid and Drilling Fluid System

The HDD process involves the use of drilling fluid containing water and bentonite (a naturally occurring clay) slurry as a coolant and lubricant for the drill head. The slurry also helps to stabilize the boreholes and aids in the removal of cuttings during the drilling process. Bentonite is a naturally occurring, non-toxic, inert substance that meets National Sanitation Foundation /American National Standards Institute 60 NSF Drinking Water Additives Standards and is frequently used for drilling potable water wells. Bentonite, however, if released into waterbodies, has the potential to adversely impact fish, fish eggs, aquatic plants, and benthic invertebrates if in heavy enough concentrations to cover the bottom with sediment.

The drilling fluid is prepared in a mixing tank containing both new recycled drilling fluid. The fluid is pumped at rate of 100 to 1,000 gallons per minute (gpm) through the center of the drill pipe to the cutters. Return flow is through the annulus created between the wall of the boring and the drill pipe. The cuttings are carried in this return flow back to either the entry or the exit pit, depending on a combination of elevation difference and drilling/hole opening direction.

Once in the receiving pit, the fluid moves to the pickup pit to be pumped to the fluid processing equipment. Typically, shaker screens, desanders, and desilters remove cuttings in a series of decreasing screen sizes to remove finer cuttings from the drilling fluid. The cleaned and recycled fluid is returned to the mixing tank and pumped for reuse in the borehole. Following completion of the drill, cuttings and the bentonite clay will be disposed of in accordance with applicable environmental regulations.

During HDD drilling, there is the potential for unintentional loss or seepage of drilling fluid into the native material through which the drill passes. In some cases, the drilling fluid may travel through natural fissures or loose soil to the surface resulting in what is commonly referred to as an inadvertent return or a frac-out.

3 Contractor Responsibilities and Requirements

The HDD contractor is responsible for execution of all aspects of the HDD operation, including actions for detecting and controlling the inadvertent return of drilling fluid. SCS will monitor the progress and actions of the HDD contractor using a qualified onsite inspector.

The HDD contractor will be required to conduct the HDD operation with the types and quantities of equipment and materials necessary to clean up a return, which would typically consist of a tracked hydraulic excavator, straw or hay bales, stakes to secure bails, silt fence, sandbags, shovels, pumps, and any other materials or equipment deemed necessary. The HDD contractor may also provide for a vacuum truck and operator to be on call during drilling operations.

Contractors will develop site specific plans for each HDD crossing, identifying any site-specific requirements and provisions to be made to meet site conditions. In order to facilitate the creation of these site-specific plans, SCS has coordinated with an HDD contractor to review the number and depth of site-specific boreholes for each HDD location. Based upon these reviews, a geotechnical contractor will complete all applicable borehole investigations. These boreholes are offset from the drill path to prevent a potential pathway for an inadvertent return, while still providing accurate ground conditions. Boreholes provide the HDD contractor with the site-specific geologic information they should expect to encounter during their HDD operations and allows them to address any concerns they could have with a variety of soil types. Borehole soil geology results will be reviewed prior to HDD operations to evaluate if further onsite investigation would be required as a result of the geotechnical characterizations. For applicable wetlands and waterbodies, a hydraulic fracture and inadvertent return analysis may be performed and used in conjunction with a contractor's pressure tools to further mitigate potential risks. Glacial till mitigation techniques will be evaluated when applicable by the HDD contractor based upon the geological information found at each site. Available aquifer mapping and information will be shared with the HDD contractor prior to HDD operations to mitigate potential risks at these locations.

Additional equipment that may be required during HDD operations include a light tower in case clean-up operations are needed after dark, a boat with relevant safety equipment during the crossing of large waterbodies, and a leak free hose to carry spilled drilling mud to containment for disposal.

4 Fluid Migration Detection

Drilling crews will be responsible for monitoring and detection of inadvertent returns. The most obvious signs of an inadvertent return are the visible pooling of drilling mud on the surface or a sudden decrease in drilling mud pressure or return volumes during drilling operations. Drilling and mud system personnel will continuously monitor drilling pressure and return volumes, and immediately report reductions or anomalies to the SCS onsite inspector. For areas that cannot be easily accessed for visual inspection during drilling operations, drones will be used as required to visually monitor the drill path.

5 Corrective Action for an Inadvertent Return

If an inadvertent return is discovered, SCS will contain the return as described below. If a return occurs in a wetland or waterbody, the Contractor, Construction Inspector, or Environmental Inspector (EI) will immediately notify SCS's construction and project management personnel, who will notify the appropriate regulatory agencies. SCS will notify the appropriate U.S. Army Corps of Engineers office immediately upon discovery of an inadvertent return in a wetland or waterbody, detailing the location and nature of the return, corrective actions being taken, and whether the return poses any threat to public health and safety.

Corrective Action

SCS will address an inadvertent return immediately upon discovery. Containment equipment including portable pumps, hand tools, sand, hay bales, silt fencing, and lumber will be readily available as needed and provided by the HDD contractor. The following measures will be implemented to minimize or prevent further returns, contain the release, and clean up the affected area:

Wetland or Waterbody Return

- Inspection will be initiated to determine the potential movement of released drilling mud within the wetland or waterbody.
- Drilling mud returns will be collected at the drill entry location for future analysis, as required.
- Monitoring of the return will be documented by the EI and SCS will retain photographs of release events.
- If necessary, the HDD contractor will implement modifications to the drilling technique or composition of drilling fluid (e.g., increasing the depth of the drill, thickening of mud by increasing bentonite content, etc.) as appropriate to minimize or prevent further returns of drilling mud.
- Reasonable measures, within the limitation of directional drilling technology and Contractor's capability, will be taken to re-establish drilling mud circulation.
- SCS will evaluate the return to determine if containment structures are warranted to effectively contain the release. When making this determination, SCS will also consider if placement of containment structures will cause additional adverse environmental impact.
- Upon completion of the drilling operation, SCS will consult with applicable regulatory agencies to determine if additional clean-up requirements are required.
- If public health and safety are threatened by the inadvertent return, drilling operations will be shut down until the threat is eliminated.

Upland Return

- If necessary, the HDD contractor will implement modifications to the drilling technique or composition of drilling fluid (e.g., increasing the depth of the drill, thickening of mud by increasing bentonite content, etc.) as appropriate to minimize or prevent further returns of drilling mud.
- SCS will place containment structures at the affected area to prevent migration of the return.
- If the amount of the return is large enough to allow collection, the drilling mud released into containment structures will be collected and returned to either the drilling operation or a disposal site.
- If the amount of the return is not large enough to allow collection, the affected area will be diluted with fresh water and allowed to dry. If necessary, steps will be taken to prevent silt-laden water from flowing into a wetland or waterbody.
- If public health and safety are threatened by an inadvertent return, drilling operations will be shut down until the threat is eliminated.

6 Containment of Drilling Fluid Return

Immediately following the detection of the inadvertent drilling fluid return, containment, and clean-up operations shall commence. For returns on land, Contractor shall use straw bales, silt fences, sandbags, and earth berms to prevent fluid from migrating or flowing from the immediate area of the discharge. If the volume returned is too small for containment measures or if the return occurs in an environmentally sensitive area where construction of containment measures can cause additional damage, the return will be diluted with fresh water and allowed to dry naturally if there is no potential for migration into a waterbody.

For returns in shallow water, the HDD contractor shall install staked sediment barriers as described in the Project's Environmental Construction Plan. Removal by vacuum truck may be attempted if deemed appropriate. The decision to proceed with the drilling operation will be at the sole discretion of the SCS representative after all

methods to seal off the location of the discharge have been completed. Underwater returns may be allowed to dissipate where clean-up would cause more damage than leaving the material in place. Where clean-up can be accomplished without causing additional damage, the clean-up of the spill will be conducted.

Once drilling operations have commenced, the location of the return will be closely monitored and managed. If the return cannot be managed after drilling operations have restarted, drilling operations will be shut down and other corrective actions will be pursued. Tripping out, or the physical act of pulling the drill pipe out of the bore, and then starting the drill in a new location on a new trajectory may be required.

7 Clean-up of Returns

The cleanup shall commence as soon as practicable after the return is discovered. Clean-up shall include removal of all visible drilling mud located in accessible areas. Removal methods will vary based on the volume of the return and the site-specific conditions. Removal equipment may include vacuum trucks, loader and track hoe equipment, small pumps, shovels, buckets, brooms, and squeegees. If the return occurs in a sensitive area, the released drilling fluid will be cleaned up and the return area will be restored as close to the original condition as feasible. It may be necessary to store the returned mud on-site prior to disposal.

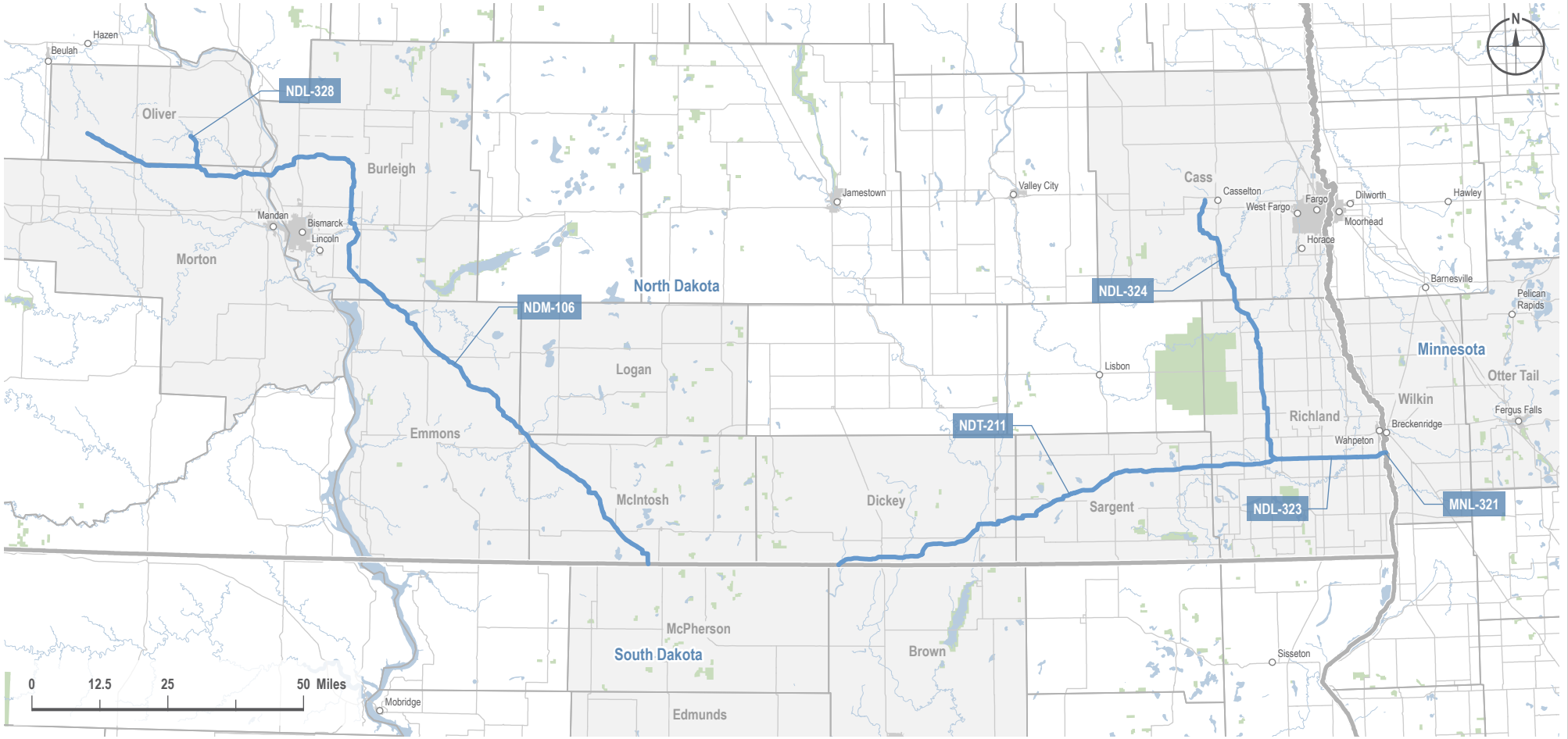
8 Agency Notification Procedures

A return will be reported first to SCS, who in turn will notify responsible agencies, as required.

Biological and Cultural Survey Progress in North Dakota		
County	**Biological Survey Progress[1] (% completed)**	**Cultural Survey Progress[1] (% completed)**
Burleigh	90%	92%
Cass	98%	97%
Dickey	81%	81%
Emmons	85%	87%
Logan	100%	100%
McIntosh	98%	98%
Morton	89%	92%
Oliver	98%	99%
Richland	96%	97%
Sargent	99%	98%
Total	**93%**	**94%**

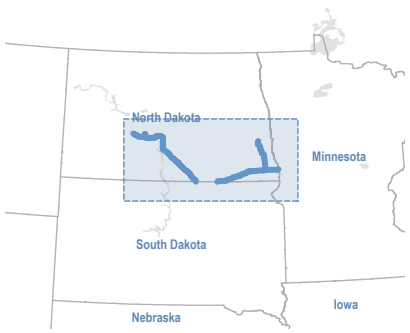
Notes:
[1]Biological and cultural survey progress reflects surveys conducted as of January 26, 2024

PROJECT OVERVIEW MAP - NORTH DAKOTA



Disclaimer:

VICINITY MAP



LEGEND

- Proposed Project Route
- County Boundary
- State Boundary
- City / Town
- Urban Area
- Highway
- River / Stream
- Waterbody
- Federal Land

PREPARED BY

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SUMMIT CARBON SOLUTIONS

REVISIONS

Date	Revised by	Checked by
2024-01-23	CW	RC
0 - Issued for Use		
Issued figure for Use		
Date:	Revised by:	Checked by:

Figure Title:
Project Overview Map
North Dakota

Figure Number:
Figure 1

Scale:
1 : 1,750,000
1 inch equals 27.62 miles

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
1
1 of 1

Drawing Number:
1002-01-015
Revision 0

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North Dakota Pump Station Locations			
Pump Station	**County**	**Route**	**Milepost**
MPS-08	McIntosh	NDM-106	57.81
MPS-09	Burleigh	NDM-106	122.62
MPS-10	Morton	NDM-106	181.79
TPS-04[1]	Richland	NDL-323	16.90

Notes:
[1]Pump station TPS-04 is located at the terminus of NDL-323 and NDL-324 and at the start of NDT-211

Table 2.2.2: Typical Dimensions of ATWS

FEATURE	APPROXIMATE DIMENSIONS ON EACH SIDE OF FEATURE (FEET)[1]
Horizontal directional drills (waterbodies, highways, railroads)	200 x 50 on each side of the feature near the drill entry and exit points; an additional drill pullback ATWS may be required (e.g., 100 x 50) based on workspace alignment.
Open-cut or bored roads	100 x 25
Open-cut or bored waterbodies	75 x 30
Foreign pipeline/utility/other buried feature crossings	100 x 30
Traditional wetland crossings	75 x 30
Side hill slopes	Length of area x 25 (or larger if needed)

[1] Approximate dimensions will vary depending on site specific construction needs.

No update to original Table 2.2.2 from the Application filed on October 17, 2022.

Updated Table 2.1.1: Project Design Specifications and Operating Parameters	
PROJECT FEATURE	**DESIGN SPECIFICATIONS AND OPERATING PARAMETERS**
Pipeline Design Specifications	
Pipe Size (outside diameter)	4.5 - to 24-inch outside diameter
Pipe Type	High-strength carbon steel (API 5L)
Nominal Wall Thickness in Inches	0.189- to 0.750-inch
Pipe Design Factor	0.72[1]
Longitudinal or Seam Joint Factor	1.00
Specified Minimum Yield Strength	52,000 – 70,000 pounds per square inch (psi)
Tensile Strength	66,700 – 82,000 psi
Flow Rate	
Expected Normal Flow Rate	Up to 18.5 million metric ton per annum (MMTPA) of CO_2
Maximum Design Flow Rate	962 million standard cubic feet per day (MMSCFD), which is 18.5 MMTPA of CO_2
Operating Pressure	
Operating Pressure	1,200 pounds per square inch gauge (psig) to 2,160 psig
Maximum Operating Pressure	The Maximum Operating Pressure as defined in Title 49 CFR 195 is 2,183 psig
Operating Temperature	
Operating Temperature	115 to 30 degrees Fahrenheit
Maximum Operating Temperature	120 degrees Fahrenheit
Description of associated facilities	Pump stations; mainline valves; launcher and receiver sites; temporary and permanent access roads
Product Capacity Information	
Planned Minimum and Maximum Design Capacity or Throughput	Minimum: 0 MMTPA Maximum: 18.5 MMTPA
Product Description	CO_2

Notes
[1] Conventional pipeline installation will have a Design Factor 0.72. More conservative designs factors will be applied at road crossings (Design Factor 0.6), railroad crossings (Design Factor 0.5), and horizontal directional drills (HDDs) (Design Factor 0.5 or 0.6 depending on site specific drill design).

Updated Table 2.1.2: Facilities

PROJECT FACILITIES	PERMANENT	TEMPORARY
Pump Stations	4	--
Launcher-Receivers	3	--
Mainline Valves [1]	34	--
Access Roads	33	42

Notes
[1]Twenty-five mainline valve (MLV) sites will be standalone and nine MLV sites are located within the permanent footprint of other facilities (e.g., pump stations or launcher-receiver sites).

Updated Table 2.1.3: Mainline Valve Locations			
VALVE NUMBER	**MILEPOST**	**COUNTY**	**PERMANENT AREA (ACRES)**
NDM-106 (Mainline)			
MLV-106-03	41.72	McIntosh	0.06
MLV-106-05[1]	57.81	McIntosh	0.00
MLV-106-04	64.99	McIntosh	0.06
MLV-106-04-A	84.16	Emmons	0.06
MLV-106-04-B	96.88	Emmons	0.06
MLV-106-07	107.44	Emmons	0.06
MLV-106-06[1]	122.62	Burleigh	0.00
MLV-106-08	137.54	Burleigh	0.06
MLV-106-08-A	152.47	Burleigh	0.06
MLV-106-08-B	156.68	Burleigh	0.06
MLV-106-09	163.94	Burleigh	0.06
MLV-106-10	167.18	Morton	0.06
MLV-106-10-A	175.35	Morton	0.06
MLV-106-11[1]	181.79	Morton	0.00
NDT-211 (Trunkline)			
MLV-211-01[1]	0.04	Richland	0.00
MLV-211-02	18.85	Sargent	0.06
MLV-211-03	38.70	Sargent	0.06
MLV-211-04	57.85	Dickey	0.06
MLV-211-05	59.86	Dickey	0.06
MLV-211-06	76.89	Dickey	0.06
MLV-211-06-B	79.90	Dickey	0.06
MLV-211-06-A	80.85	Dickey	0.06
MLV-211-07	87.02	Dickey	0.06
MLV-211-08	89.35	Dickey	0.06
NDL-324 (Lateral)			
MLV-324-01[1]	0.00	Cass	0.00
MLV-324-01-A	16.72	Cass	0.06
MLV-324-02	24.99	Richland	0.06
MLV-324-03	31.43	Richland	0.06
MLV-324-03-A	42.01	Richland	0.06
MLV-324-04[1]	55.90	Richland	0.00
MNL-321 (Lateral)			

Updated Table 2.1.3: Mainline Valve Locations

VALVE NUMBER	MILEPOST	COUNTY	PERMANENT AREA (ACRES)
MLV-321-05	29.29	Richland	0.06
NDL-323 (Lateral)			
MLV-323-01[1]	16.90	Richland	0.00
NDL-328 (Lateral)			
MLV-328-01[1]	0.00	Oliver	0.00
MLV-328-02[1, 2]	6.41	Morton	0.00
TOTAL	**--**	**--**	**1.5**

Notes:
[1] Located within another project facility; therefore, the impact acreage is already accounted for within the footprint of the associated project facility (e.g., pump station or launcher-receiver site).
[2] MLV-328-02 is also located at MP 179.0 of NDM-106 (within a Launcher-Receiver site).

Updated Table 2.1.4: Permanent and Temporary Access Roads				
ACCESS ROAD	**TOTAL NUMBER OF PERMANENT ACCESS ROADS**	**PERMANENT AREA (ACRES)**	**TOTAL NUMBER OF TEMPORARY ACCESS ROADS**	**TEMPORARY AREA (ACRES)**
Mainline				
NDM-106	15	0.97	23	33.44
Trunkline				
NDT-211	10	0.50	10	5.47
Laterals				
MNL-321	1	0.01	0	--
NDL-323	0	--	1	0.05
NDL-324	5	0.35	7	3.62
NDL-328	2	1.34	1	0.21
TOTAL	**33**	**3.17**	**42**	**42.79**

Updated Table 2.2.1: Right-of-Way and Footprint Required in North Dakota

	PERMANENT ROW AND FOOTPRINT		CONSTRUCTION ROW AND FOOTPRINT				
PIPELINE	WIDTH (FEET)	AREA (ACRES)	TYPICAL WIDTH (FEET)[1]	TEMPORARY CONSTRUCTION AREA[1] (ACRES)	ATWS (ACRES)	TOTAL TEMPORARY CONSTURCTION AREA (ACRES)	TOTAL AREA (ACRES)
Mainline							
NDM-106	50	984.9	60	1,145.1	164.1	1309.2	2,294.1
Trunkline							
NDT-211	50	543.9	50	474.6	113.4	588.0	1,131.9
Laterals							
NDL-323	50	102.4	50	98.9	6.3	105.2	207.6
NDL-324	50	338.2	50	329.6	26.6	356.2	694.4
NDL-328	50	41.0	60	44.8	7.8	52.6	93.6
MNL-321	50	21.4	50	21.0	1.6	22.6	44.0
TOTAL	--	**2,031.8**	--	**2,114.0**	**319.8**	**2,433.8**	**4,465.6**

[1]Temporary construction area may vary depending on site specific conditions (e.g., neckdown for wetland crossings).
NOTE: Discrepancies in acreage totals are due to rounding.

Updated Table 2: Project Location

COUNTY	MAINLINE (MILES)	TRUNKLINE (MILES)	LATERALS (MILES)
Burleigh	51.0	--	--
Cass	--	--	22.7
Dickey	--	37.4	--
Emmons	38.5	--	--
Logan	1.8	--	--
McIntosh	34.5	--	--
Morton	23.2	--	0.1
Oliver	12.7	--	6.3
Richland	--	12.3	53.7
Sargent	--	39.7	--
Total	**161.7**	**89.4**	**82.8**

Updated Table 5.3.1: Wetlands Impacted by the Project

WETLAND TYPE	TEMPORARY IMPACTS (ACRES)	PERMANENT CONVERSION OF WETLANDS (ACRES)[1]	PERMANENT IMPACTS (ACRES)[2]	CROSSING LENGTH (FEET)
PFO	0.83	0.53	--	446
PSS	0.87	0.53	--	458
PEM	110.54	--	0.11	61,231
Total	**112.24**	**1.06**	**0.11**	**62,135**

PFO – palustrine forested; PSS – palustrine scrub-shrub; PEM – palustrine emergent

Notes:

[1]PFO/PSS wetlands will be permanently converted to PEM wetlands as a result of the Applicant's routine maintenance activities along the proposed 50-foot-wide permanent ROW.

[2]Permanent impacts to PEM wetlands will only occur as a result of the construction of one MLV and seven permanent access roads.

Updated Table 5.3.2: Perennial Streams Crossed by the Project

PERENNIAL STREAM	LINE	MILEPOST	FEATURE ID	CROSSING LENGTH (FEET)[1]	COUNTY	CROSSING METHOD
Bois De Sioux River	MNL-321	28.15	S1002WI001	120[2]	Richland	HDD
Wild Rice River	NDL-323	4.26	S2006RI017	124	Richland	HDD
South Branch Antelope Creek	NDL-324	11.80	S2222RI004	65	Richland	Bore
Maple River	NDL-324	13.62	S2023CA005	305	Cass	HDD
Sheyenne River	NDL-324	28.09	S2006RI001	1089	Richland	HDD
Unnamed Canal	NDL-324	37.95	S3323RI001	33	Richland	Bore
Unnamed Canal	NDL-324	40.96	S3323RI003	19	Richland	Bore
Unnamed Canal	NDL-324	44.02	S3322RI002	40	Richland	Bore
Unnamed Drainage to Square Butte Creek	NDL-328	3.80	S2023OL013	44	Oliver	Bore
Unnamed Drainage to Beaver Creek	NDM-106	74.36	S2008EM002	70	Emmons	Bore
Beaver Creek	NDM-106	75.35	S2008EM001	49	Emmons	Bore
Hawk Creek	NDM-106	103.73	S2002EM007	13	Emmons	Bore
Apple Creek	NDM-106	135.32	S_2_BU_023_DT	131	Burleigh	HDD
Apple Creek	NDM-106	135.37	S2004BU040	37	Burleigh	HDD
Burnt Creek	NDM-106	154.75	S3919BU403	39	Burleigh	HDD
Missouri River	NDM-106	165.60	S2004MO017	702	Burleigh/Morton	HDD
Wild Rice River	NDT-211	3.30	S2007RI012	39	Richland	HDD
Wild Rice River	NDT-211	13.92	S2006SA022	68	Sargent	HDD
James River	NDT-211	59.23	S2022DI014	126	Dickey	HDD
Maple River	NDT-211	76.99	S2015DI025	355	Dickey	Bore
Elm River	NDT-211	88.48	S2015DI024	51	Dickey	HDD

Notes:
[1]Crossing length is measured along the centerline from bank to bank.
[2]The crossing of this river is at the North Dakota and Minnesota border. As such, the crossing length is estimated from aerial imagery and not field surveys.

Updated Table 5.4.1: Summary of Vegetation Resources

COVER TYPE	PROJECT[1]		DESCRIPTION[1]
	MILES	PERCENT	
Open Water	0.5	0.2%	Areas of open water, generally with less than 25 percent cover of vegetation or soil.
Barren Land (Rock/Sand/Clay)	0.1	<0.1%	Areas of bedrock, desert pavement, scarps, talus, slides, volcanic material, glacial debris, sand dunes, strip mines, gravel pits and other accumulations of earthen material. Generally, vegetation accounts for less than 15 percent of total cover.
Developed	10.7	3.2%	Developed lands include such land as residential, commercial, industrial, rights-of-way corridors (ROW corridors). Vegetation in previously disturbed areas is frequently little to none and is often composed of introduced weedy species. The previously disturbed areas crossed by the Project have been identified through land-use classification as ROW corridors, with a very small portion (<0.2 mile) identified as rural residence. ROW corridors include roads, utility corridors and railroads. These areas have often been replanted with a mixture of grass and forbs.
Cultivated Crops	216.5	64.8%	Areas used to produce annual crops, which in the Project area are crops such as wheat, corn, and soybeans. Crop vegetation accounts for greater than 20 percent of total vegetation. This class also includes all land being actively tilled.
Pasture/Hay	14.2	4.3%	Areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20 percent of total vegetation. Dominant vegetation observed in hayfields within the Project area consisted Canadian thistle (*Cirsium arvense*), Kentucky bluegrass (*Poa pratensis*), smooth brome (*Bromus inermis*), western snowberry (*Symphoricarpos accidentalis*), quackgrass (*Elymus repens*), alfalfa (*Medicago sativa*), prickly Russian-thistle (*Salsola tragus*), green bristlegrass (*Setaria viridis*), cereal rye (*Secale cereale*), annual bluegrass (*Poa annua*), big bluestem (*Andropogon gerardii*), and Indiangrass (*Sorghastrum nutans*).

Updated Table 5.4.1: Summary of Vegetation Resources			
	PROJECT[1]		
COVER TYPE	MILES	PERCENT	DESCRIPTION[1]
Emergent Herbaceous Wetlands	6.2	1.9%	Areas where perennial herbaceous vegetation accounts for greater than 80 percent of vegetative cover and the soil or substrate is periodically saturated with or covered with water. See descriptions of palustrine emergent wetland vegetation in **Section 5.3.1[2]**. Further description is provided in the Project wetlands report provided in **Appendix 7[3]**.
Woody Wetlands	1.0	0.3%	Areas where forest or shrubland vegetation accounts for greater than 2 percent of vegetative cover and the soil or substrate is periodically saturated with or covered with water. See descriptions of palustrine shrub-scrub and palustrine forested wetland vegetation in **Section 5.3.1[2]**. Additional information is provided in the Project wetlands report provided in updated **Appendix 7[3].**
Deciduous Forest	1.4	0.4%	Areas dominated by trees generally greater than 16 feet tall, and greater than 20 percent of total vegetation cover. More than 75 percent of the tree species shed foliage simultaneously in response to seasonal change. Forests within the Project area are characterized as hardwood forests. Dominant tree and shrub species in the Project area include beggarslice (*Hackelia virginiana*), eastern woodland sedge (*Carex blanda*), burr oak (*Quercus macrocarpa*), green ash (*Fraxinus pennsylvanica*), American plum (*Prunus americana*), American basswood (*Tilia americana*), common snowberry (*Symphoricarpos albus*), American elm (*Ulmus americana*), purple meadow-rue (*Thalictrum dasycarpum*), reed canarygrass (Phalaris arundincea), boxelder (*Acer negundo*), European buckthorn (*Rhamnus cathartica*), buffelgrass (*Cenchrus ciliaris*), common milkweed (*Asclepias syriaca*), Siberian elm (*Ulmus pumila*) smooth brome (*Bromus inermis*), stinging nettle (*Urtica dioica*), stiff goldenrod (*Solidago rigida*), Kentucky bluegrass, and western snowberry.
Evergreen Forest	<0.1	<0.1%	Areas dominated by trees generally greater than 16 feet tall, and greater than 20 percent of total vegetation cover. More than 75 percent of the tree species maintain their leaves all year. Canopy is never without green foliage.

Updated Table 5.4.1: Summary of Vegetation Resources

COVER TYPE	PROJECT[1]		DESCRIPTION[1]
	MILES	PERCENT	
Scrub / Shrub	0.5	0.1%	Areas dominated by shrubs; less than 16 feet tall with shrub canopy typically greater than 20 percent of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions.
Grassland / Herbaceous	82.7	24.8%	Areas dominated by graminoid or herbaceous vegetation, generally greater than 80 percent of total vegetation. These areas are not subject to intensive management such as tilling but can be utilized for grazing.

Notes:
Data Source: USGS 2021 NLCD Land Use
[1]Please note that the values in the table are based on desktop review and may vary from field verification.
[2]Refers to Section 5.3.1 of the Applicants October 17, 2022 Application.
[3]An updated Appendix 7 "Biological Reports" is being filed as part of this Supplemental Filing for the Reconsideration Process.

Updated Table 5.5.1: Federally Listed Threatened, Endangered and Candidate Species which may occur in the North Dakota Siting Corridor

FAMILY	COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS
Mammals	Northern long-eared bat	*Myotis septentrionalis*	Endangered
Birds	Piping plover	*Charadrius melodus*	Threatened
Birds	Rufa Red knot	*Calidris canutus rufa*	Threatened
Birds	Whooping crane	*Grus americana*	Endangered
Insects	Dakota skipper	*Hesperia dacotae*	Threatened
Insects	Monarch butterfly	*Danaus plexippus*	Candidate
Plants	Western prairie fringed orchid	*Platanthera praeclara*	Threatened

Notes: USFWS designated critical habitat for the Poweshiek skipperling occurs approximately 8.4 miles south of the Project in Richland County, North Dakota. Though critical habitat has been designated, the Poweshiek skipperling is considered extirpated from its historic range in North Dakota (Dyke et al 2015; USFWS 2021). Poweshiek skipperling habitat or occurrences were not identified within the 200-foot siting corridor; therefore, the species was removed from Table 5.5.1.

Updated Table 6.1: List of the Permits Required for Construction of the Project in North Dakota.

AGENCY	PERMIT OR AUTHORIZATION	SUBMITTAL/ ANTICIPATED SUBMITTAL
U.S. Army Corps of Engineers (USACE) Omaha District	Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act through Nationwide Permit (NWP) 58 for Utility Line Activities for Water and Other Substances	Submitted in October 2022; Addendum Submitted in March 2023; Supplemental submission anticipated in July 2024
	Section 408 Review	Submitted in January 2022; No Alteration Determination Issued May 2023
U.S. Fish and Wildlife Service (USFWS) – Mountain Prairie Region	Section 7 Consultation for Threatened and Endangered Species Review and/or Clearance	Ongoing; Biological Assessment to be submitted August 2024 (for entire MCE Project)
North Dakota Public Service Commission (NDPSC)	Certificate of Corridor Compatibility and Route Permit; North Dakota Rules, Article 69-06, Chapter 69-06-02.1	Submitted October 2022; NDPSC Denied Application August 2023; Reconsideration granted September 2023
	Certificate of Public Convenience and Necessity; ND Century Code Chapter 49-03.1	
North Dakota Department of Environmental Quality (NDDEQ)	401 Water Quality Certification (WQC)	Submitted October 2022; Addendum Submitted March 2023; Supplemental submission anticipated in July 2024 (in conjunction with USACE NWP 58 Application)
	North Dakota Pollutant Discharge Elimination System General Permit for Temporary Discharge Activities	Anticipate Submittal in January 2025
	NDPDES General Permit for Stormwater Discharges Associated with Construction Activities	Anticipate Submittal in January 2025
State Historic Society of North Dakota	Section 106 National Historic Preservation Act Consultation	Ongoing; In conjunction with USACE NWP 58 Application
	North Dakota Century Code Chapter 55-02-07	
North Dakota Department of Water Resources (NDDWR)	Temporary Water Use Permit	Anticipate Submittal in January 2025
	Authorization to Construct a Project Within Sovereign Lands of North Dakota	
County Floodplain Administrators	County Floodplain Development Permits	Anticipate Submittal in January 2025
County and Local Authorities	Special or Conditional Use Permits, driveway permits, and road crossing permits where required	Ongoing

Updated Table 6.2.8: Emergency Management Contacts			
COUNTY(S)	**EMERGENCY MANAGEMENT DIRECTORS**	**DATE**	**DISPERSION ANALYSIS PRESENTED**
Burleigh, Emmons	Mary Senger	March 29, 2022; March 31, 2022; June 14, 2022; November 27, 2023; January 24, 2024	Burleigh County – November 27, 2023; Emmons County – January 24, 2024
Morton	Cody Mattson; Patrick Martin (Current)	March 29, 2022; June 14, 2022; August 29, 2023; November 30, 2023; April 2024 (Scheduled)	Morton County - November 30, 2023
Oliver, Mercer	Carmen Reed; Terry Ternes (Current)	June 14, 2022; March 15, 2023; September 20, 2023; December 1, 2023; January 9, 2024	Oliver and Mercer County – December 1, 2023
Cass	Jim Prochniak	March 28, 2022; June 15, 2022	To be scheduled
Richland	Brett Lambrecht	March 25, 2022; March 31, 2022; June 15. 2022; August 9, 2023	To be scheduled
Sargent	Wendy Willprecht	March 25, 29, & 30, 2022; April 19, 2022; August 15, 2022; June 15, 2022; September 21, 2023	To be scheduled
Dickey	Charlie Russell	March 24, 2022; March 28, 2022; June 15, 2022; November 7, 2023; January 9, 2024	Dickey County – November 7, 2023 and January 9, 2024
McIntosh	Neil Meidinger; Loren Lang (Current)	March 29, 2022; June 15. 2022, July 10, 2023; November 8, 2023	To be scheduled
Logan	Daniel Schwartz	March 30, 2022; June 15, 2022; September 28, 2022; November 28, 2023; April 2024 (scheduled)	Logan County - Scheduled for April 2024

Updated Table 7.2: Project Workforce

WORKFORCE	WORKER YEARS[1,3]	ANNUAL EMPLOYEES[2,3]
Project Development/Construction Jobs	3,518	620
Operation Jobs	~	157

Source: E&Y 2023.
Notes:
[1]Sum of full-time workers required over the course of the six-year development and construction period (2021-2026) to include pre-construction activities (e.g., permitting, route development, and surveys) and to complete the construction, commissioning, and transition to operation of the Project in North Dakota.
[2]Per year on average.
[3]Includes total Applicant employees (direct), suppliers/contractors (indirect), and induced jobs.

Updated Table 7.9: Pipeline Collocation North Dakota

ROUTE	TOTAL PIPELINE LENGTH (MILES)	TOTAL PIPELINELINE CONSTRUCTED IN GREENFIELD (MILES)	PERCENT CONSTRUCTED IN GREENFIELD	COLLOCATION WITH OTHER LINEAR CORRIDORS (MILES)[1]	PERCENT OF PROJECT COLLOCATED[1]
Lateral Lines					
MNL-321	3.53	3.53	100%	0.00	0%
NDL-323	16.93	15.93	94%	1.00	6%
NDL-324	55.94	45.49	81%	10.45	19%
NDL-328	6.42	6.36	99%	0.06	1%
Trunkline					
NDT-211	89.39	75.6	85%	13.79	15%
Mainline					
NDM-106	161.67	137.24	85%	24.43	15%
Pipeline Routes Combined					
Total	**333.88**	**284.15**	**85%**	**49.73**	**15%**

Note:
[1]Length mileage and percentage are based on collocation within 200 feet of the Project's centerline.

Updated Table 8.1: Exclusion Areas Summary

EXCLUSION AREA	PRESENT WITHIN 1-MILE OF ROUTE CENTERLINE	PRESENT WITHIN 200-FOOT SITING CORRIDOR	CROSSED BY ROUTE CENTERLINE
Designated or Registered National: Parks, Memorial Parks, Historic Sites and Landmarks, Natural Landmarks, Monuments and, Wilderness Areas	No	No	No
Designated or Registered State: Parks, Historic Sites, Monuments, Historical Markers, Archaeological Sites, and Nature Preserves	No	No	No
County Parks and Recreational Areas, Municipal Parks, and Parks Owned or Administered by Other Governmental Subdivisions	No	No	No
Areas Critical to the Life States of Threatened or Endangered Animal or Plant Species	Yes[1]	Yes[1]	Yes[1]
Areas Where Animal or Plant Species that are Unique or Rare to this State would be Irreversibly Damaged	No	No	No
Areas within 1,200 Feet of the Geographic Center of an Intercontinental Ballistic Missile (ICBM) Launch or Launch Control Facility	No	No	No
Areas within 30 Feet on Either Side of a Direct Line between an Intercontinental Ballistic Missile (ICBM) Launch Facility and a Missile Alert or Launch Control Facility to Avoid Microwave Interference. This Restriction Applies to Aboveground Structures, not to Surface Features such as Roads, or Below Ground Infrastructure	No	No	No

Notes:
[1] Areas Critical to the Life State of Threatened or Endangered Animal or Plant Species that is crossed by the siting corridor and centerline is USFWS Designated Critical Habitat for the piping plover. This Exclusion Area will be avoided by the HDD crossing of the Missouri River, therefore, there will be no impact to the USFWS Designated Critical Habitat.

Updated Table 8.2.1: Waterfowl Production Areas

NAME	WITHIN 1-MILE OF ROUTE CENTERLINE	WITHIN 200 -FOOT SITING CORRIDOR	CROSSED BY ROUTE CENTERLINE	>50% OF SITING CORRIDOR[2]
Richland County Waterfowl Production Area	Yes	No	No	No
Sargent County Waterfowl Production Area	Yes	Yes[1]	Yes[1]	Yes[1]
Dickey County Waterfowl Production Area	Yes	Yes[1]	Yes[1]	Yes[1]
Mcintosh County Waterfowl Production Area	Yes	Yes[1]	Yes[1]	Yes[1]
Emmons County Waterfowl Production Area	Yes	Yes[1]	Yes[1]	Yes[1]
Burleigh County Waterfowl Production Area	Yes	Yes[1]	Yes[1]	Yes[1]

[1]Surface disturbance avoided by HDD crossing of the Waterfowl Production Area.
[2]Waterfowl Production Area (WPA) occupies >50% of the width of the segment of the Siting Corridor crossing the WPA.

Updated Table 8.2: Avoidance Area Summary

AVOIDANCE AREA	PRESENT WITHIN 1-MILE OF ROUTE CENTERLINE	PRESENT WITHIN 200-FOOT SITING CORRIDOR	CROSSED BY ROUTE CENTERLINE	>50% OF SITING CORRIDOR[6]
Designated or Registered National: Historic Districts; Wildlife Areas; Wild, Scenic, or Recreational Rivers; Wildlife Refuges; and Grasslands	Yes	Yes[1]	Yes[1]	Yes[!]
Designated or Registered State: Wild, Scenic, or Recreational Rivers; Game Refuges; Game Management Areas; Management Areas; Forests; Forest Management Lands; and Grasslands	No	No	No	No
Historical Resources Not Specifically Designated as Exclusion or Avoidance Areas	No	No	No	No
Areas which are geologically unstable	Yes	Yes[2]	Yes[2]	Yes[2]
Within 500 Feet of a Residence, School, or Place of Business	Yes	Yes[3]	No	No
Reservoirs and Municipal Water Supplies	No	No	No	No
Water Resources for Organized Rural Water Districts	Yes	Yes[4]	Yes[4]	Yes[4]
Irrigated Land[5]	N/A	N/A	N/A	N/A
Areas of Recreational Significance that are not Designated as Exclusion Areas	No	No	No	No

Notes:
[1] A portion of the Project crosses the Dakota Lake National Wildlife Refuge (NWR) and will be avoided by HDD; therefore, there will be no surface disturbance to the NWR. The Waterfowl Production Areas (WPAs) will be avoided by HDD; therefore, there will be no surface disturbance to the WPAs.
[2]Landslide features crossed by the Siting Corridor will be avoided by HDD or Class A landslides would be mitigated by partially or wholly removing the feature within the Siting Corridor with standard construction practices.
[3]Six residential or business structures have been identified within 500 feet of the centerline and waivers have been obtained for all six structures.
[4] See discussion of Water Resources for Organized Rural Water Districts in Section 8.2.7 of the October 17, 2022 Application.
[5] While identified as an Avoidance Area in NDAC Section 69-06-08-02(2), the irrigated land Avoidance Area does not apply to underground transmission facilities such as the Project. See NDAC Section 69-06-08-02(2)(h).
[6]Avoidance area occupies >50% of the width of the siting corridor.

Updated Table 11.1: Personnel Qualifications

NAME	DEGREE	QUALIFICATIONS AND EXPERIENCE
James Powell	B.S., Engineering	Currently serves as the Chief Operating Officer for the Applicant. Prior to joining SCS, James served in various senior leadership roles for both private and publicly traded midstream and upstream operating companies. James has more than 30-years of experience leading large energy infrastructure projects in the U.S. and internationally. In addition to his extensive project experience, James led the operating organizations for Hiland Partners as EVP & COO and Kinder Morgan as VP of Operations. As VP of Operations for Kinder Morgan, James was accountable for U.S. & Canadian assets that included ~12,000 miles of pipeline and related facilities.
Jason Zoller	M.S., Biological Sciences B.S., Fisheries and Wildlife	Currently serves as the Sr. Environmental Program Manager for the Applicant. Before joining SCS, Jason worked as an environmental consultant for 16 years working on large controversial pipeline, LNG, transmission line, and renewable energy projects.
Erik Schovanec	B.S., Engineering	Currently serves as the VP – Pipeline & Facilities for the Applicant. Before joining SCS, Erik served in various management roles designing, constructing, and operating midstream pipeline assets. Erik has more than 12 years of experience leading infrastructure projects and has been associated with constructing and commissioning over 3,000 miles of pipe across the U.S..
Micah Rorie	B.A., Economics	Currently serves as VP – Land & Right of Way with 16 years experience covering all facets of both capex right of way and operations right of way leadership. Combined land management experience spans 13 states, 12,000 miles of pipeline right of way and 8,000 acres of fee simple transactions.
David Daum	M.S., Industrial Management B.S., Occupational Safety & Health Certified Safety Professional (CSP)	Currently serves as Sr. Director Health, Safety, Security and Environmental (HSSE) with 30 years of experience leading HSSE and Operations organizations in the heavy construction and Oil and Gas industries. Dave has led HSSE and Pipeline Operations teams across the US and abroad working on major pipeline projects in the GoM and Alaska with BP Pipelines North America. He also led integrity management projects for BP Pipelines across 30 states and 15,000 miles of pipelines.
Grant Young	B.S., Biology	16 years of experience with environmental planning, impact assessment, and management of large capital projects including pipelines, transmission lines, and renewable energy.

Updated Table 11.1: Personnel Qualifications

NAME	DEGREE	QUALIFICATIONS AND EXPERIENCE
Nathan Sessions	B.S., Geography	Mr. Sessions has more than 7 years of professional experience in environmental permitting, compliance, mitigation strategy development, waste management strategy development, sampling and analysis planning, stakeholder engagement, and technical writing. He specializes in water resource and geologic assessments and has experience working in both the private and public sectors.
Erin Salisbury	M.A., Anthropology B.A., Anthropology	More than 11 years of experience in cultural resources management. Erin has extensive archaeological experience in archaeological survey, data recovery, monitoring, report writing, tribal consultation, and project management/oversight for well pads, access roads, water lines, pipelines, seismic projects, transmission lines, and railroads across the Great Plains and southeast.
Michelle Erickson	B.S., Geography	With more than 9 years of experience specializing in environmental assessments, regulatory compliance, and permitting. Her experience has encompassed all sectors of oil and gas projects including development of transportation pipelines and facilities for both onshore and offshore projects. Technical expertise in impact assessments, restoration and mitigation planning, environmental data analysis, field investigation, and technical writing.

PHMSA Exceedance Table

CFR 49 PART 195 SUBPART	CFR 49 PART 195 REFERENCE	CFR 49 PART 195 REQUIREMENT	SCS COMPLIANCE MEASURES
C - Design Requirements	CFR 195.106	Internal Design Pressure - When utilizing the internal design pressure for pipe, pipe specifications shall be selected such that a maximum design factor of 0.72 be maintained across the system	SCS will exceed requirements by increasing minimum nominal wall thickness for the following pipe sizes which result in a higher calculated MOP versus the proposed system MOP of 2,183 psig: 4.5" Pipe - 0.183" WT @ X52 Grade - DF=0.52 6.625" Pipe - 0.203" WT @ X52 Grade - DF=0.69 In addition, SCS will utilize pipe with an increased wall thickness for road crossings, horizontal directional drilled crossings, and within the fence line at facilities.
C - Design Requirements	CFR 195.112	New pipe - Any new pipe installed in a pipeline must comply with the requirements spelled out in this section	SCS will exceed requirements by specifying compliance with API 5L, PSL-2 standards which mandate additional metallurgical requirements, inspections, and record retention. In addition, all pipe will be manufactured in accordance with SCS developed Line Pipe Specification with considerations to more stringent requirements for mechanical properties for fracture control design, stringent dimensional requirements for improved constructability, and stringent inspection and testing criteria to include non-destructive evaluation of the welded pipes.
C - Design Requirements	CFR 195.134	CPM Leak detection - Requires leak detection systems to comply with section 4.2 of API 1130	SCS will exceed these requirements and recommended practices for computational pipeline monitoring (CPM) system requirements set forth in API 1130 and 1175. Overlapping SCADA leak detection technologies including volume balance with rate of change calculations, inventory balance with rate of change calculations, and pressure differential control logic will be implemented. Additionally, the following onsite equipment will be installed at multiple locations along the MCE system: Atmospheric sensors, thermal cameras, and redundant PIT's.
D - Construction	CFR 195.206	Material inspection - No pipe or other component may be installed in a pipeline system unless it has been visually inspected at the site of installation to ensure that it is not damaged in a manner that could impair its strength or reduce its serviceability	SCS will exceed this requirement by performing inspections on all phases of the pipe manufacturing at each pipe mill to ensure full compliance with all QC measures. In addition, SCS will perform Factory Acceptance Testing for each premanufactured component for facilities (pumps, compressors, dehydration units). In addition to this, all the components shall be inspected on site, prior to installation.
D - Construction	CFR 195.214	(a) Welding must be performed by a qualified welder or welding operator in accordance with welding procedures qualified under section 5, section 12, Appendix A or Appendix B of API Std 1104 (incorporated by reference, see § 195.3), or Section IX of the ASME Boiler and Pressure Vessel Code (ASME BPVC) (incorporated by reference, see § 195.3). The quality of the test welds used	SCS will exceed these requirements by incorporating additional mechanical testing exceeding of API 1104 Sections 5 and 12 by conducting Charpy V-Notch Testing, Vickers Hardness Testing and Cross Weld Reduced Section Tensile.

PHMSA Exceedance Table

CFR 49 PART 195 SUBPART	CFR 49 PART 195 REFERENCE	CFR 49 PART 195 REQUIREMENT	SCS COMPLIANCE MEASURES
		to qualify the welding procedures must be determined by destructive testing.	
D - Construction	CFR 195.234	Welds: Nondestructive testing - During construction, at least 10 percent of the girth welds made by each welder each welding day must be nondestructively tested.	SCS will exceed this requirement by requiring 100 percent of all girth welds to be nondestructively tested and incorporating auditing of nondestructively test results, records, and procedures
D - Construction	CFR 195.234	Weld inspection shall follow Section 9 API 1104	SCS will exceed these requirements by having a level 3 NDE inspector spot check welds in addition to the requirements laid out in Section 9 API 1104
D - Construction	CFR 195.248	Cover over buried pipeline: 1) Below the cultivation line or to a depth of 30 inches, whichever is greater 2) Industrial, commercial and residential areas - 36 inches required 3) Drainage ditches at public roads and railroads - 36 inches required 4) Waterbodies 100-foot and greater - 48 inches required	1) SCS will have a minimum cover of 48 inches (4 feet) 2) SCS will have a minimum cover of 48 inches (4 feet) 3) SCS will have a minimum cover of 60 inches (5 feet) 4) SCS will utilize horizontal directional drill technology to cross waterbodies 100-foot and greater which will result in depth of cover far greater than the required 48 inches
D - Construction	CFR 195.250	Clearance between pipe and underground structures - Any pipe underground must have at least 12 inches of clearance between outside of pipe and the extremity of any other underground structure, except drainage tile minimum clearance is 2 inches	SCS will exceed this requirement by utilizing a 24 inches clearance between the outside of the pipe and the extremity of any underground structure, including drain tiles, where feasible. In the event 24 inches clearance cannot be achieved, SCS will meet the minimum requirements stated in 49 CFR 195.
D - Construction	CFR 195.262	Pumping Equipment a) Warning devices must be installed to warn of the presence of hazardous vapors in the pumping station building	Summit is installing multiple CO2 and O2 detectors to detect both the presence of hazardous vapors and confirm that there is sufficient oxygen to confirm a safe environment.
D - Construction	CFR 195.262	Pumping Equipment d) pumping equipment must be installed at least 50 feet from station boundary	SCS will exceed this requirement by locating all pumps greater than 50 feet from the boundary and will be contained within a shelter building (which is not a requirement)
E - Pressure Testing	CFR 195.304	Test Pressure - Requires hydrotest for 4 hours at 125% MOP (plus additional 4 hours if the pipe can't be visually inspected during testing)	SCS will exceed this requirement by testing all pipe systems for 8 hours at 125% MOP

PHMSA Exceedance Table

CFR 49 PART 195 SUBPART	CFR 49 PART 195 REFERENCE	CFR 49 PART 195 REQUIREMENT	SCS COMPLIANCE MEASURES
F - Operation and Maintenance	CFR 195.406	Maximum operating pressure - Each operator must provide adequate controls and protective equipment to control the pressure within this limit.	SCS will exceed this requirement by implementing redundant PIT's on pump discharge, overlapping over pressure protection control logic, soft high pressure alarms well below MOP, and pump shutdown control logic below MOP. Additionally, SCS performed a comprehensive surge study that showed anticipated surge pressures to be well within regulation even when only local controls were considered.
F - Operation and Maintenance	CFR 195.407	Communications	SCS will exceed this requirement by implementing a system wide dual communication path to all pump stations, MLV sites, PLR sites, and capture sites.
F - Operation and Maintenance	CFR 195.440	Public Awareness	Public awareness will conservatively include stakeholders beyond the modeled areas of potential impact. SCS has contracted with PAPA and Paradium for the public outreach.
Pipeline Integrity Management	CFR 195.450	High Consequence Area (HCA) Identification	SCS exceeds standard practice by delineating potential additional HCA's according to the most up to date information rather than solely relying on Census Bureau data.
Pipeline Integrity Management	CFR 195.452(h)	Post Construction Caliper Cut-out Criteria	SCS specification for Post Construction Caliper In-line inspection is more conservative than the repair criteria for the pipelines immediate, 60-day, and 180-day criteria as required by the code.
Pipeline Integrity Management	CFR 195.452(h)	Risk Assessment Requirements	Method Selection - SCS selects the recommended practice (not mandated) which exceeds requirements Level of Conservatism - SCS chooses conservative inputs beyond standard practice Level of Detail of Inputs - SCS uses 200+ inputs, approx. ten times the regulations mandated ~21 minimum inputs Level of Detail of Analyses - SCS used dynamic segmentation to ensure superior resolution (granularity) of analyses
Pipeline Integrity Management	CFR 195.452(h)	Risk Management Decision Process	SCS far exceeds standard practice in risk management by employing quantitative, objective decision-support methods consistent with most widely used applications in all industries worldwide. This ensures consistent decision-making and avoids subjectivity and inconsistency that accompanies normal practice among pipeline operators (i.e., decision by committee)
Pipeline Integrity Management	CFR 195.452(f)+(g)	Geohazards	SCS exceeds standard practice by integrating detailed, site-specific data into risk assessment, allowing targeted risk management strategies to be applied.
H - Corrosion Control	CFR 195.563	Cathodic protection must be activated within 1 year after the pipeline begins operation	SCS will exceed this requirement by having cathodic protection active well before the 1 year after the beginning of operation
H - Corrosion Control	CFR 195.452(c)(1)(i)(A)	An operator must assess the integrity of the line pipe by in-line inspection tools in its written baseline assessment plan	SCS will go above regulations by also utilizing an Inertial Measuring Unit (IMU) pipeline inspection tool to provide continuous measurement of the pipeline centerline coordinates post construction. This provides better granularity on the baseline assessment and allows the operator to identify any movement in the pipeline over time.

PHMSA Exceedance Table			
CFR 49 PART 195 SUBPART	**CFR 49 PART 195 REFERENCE**	**CFR 49 PART 195 REQUIREMENT**	**SCS COMPLIANCE MEASURES**
H - Corrosion Control	CFR 195.561	You must inspect all external pipe coating required by 195.557 just prior to lowering the pipe into the ditch	In addition to inspecting the coating prior to lowering the pipe into the ditch, SCS will also be performing a Direct Current Voltage Gradient (DCVG) to assess the corrosion protection effectiveness after the pipeline has been backfilled.
H - Corrosion Control	CFR 195.579	If you transport any hazardous liquid or carbon dioxide that would corrode the pipeline, you must investigate the corrosive effect of the hazardous liquid or carbon dioxide and take adequate steps to mitigate internal corrosion	SCS is committed to maintaining very tight quality control on the CO2 stream entering the pipeline to minimize any risk of corrosion. On top of dehydrating the CO2 stream, there are multiple redundant protections including gas chromatograph, moisture analyzer, and product quality shut-in valves at every CO2 inlet on the system. Additionally, corrosion probes will be installed across the system to monitor any potential corrosion.



Control Center Management and Leak Detection Overview

Revision: 1

1/25/2024

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1 INTRODUCTION

This document provides an overview of the strategy SCS Carbon Transport LLC (SCS) will employ for pipeline leak detection and the general control center responses for alarms and emergency conditions. SCS has contracted Atmos International to provide leak detection software, software configuration, custom programming, and hydraulic simulation to create leak detection and pipeline simulator systems.

2 ATMOS INTERNATIONAL OVERVIEW

2.1 Reliability

Since its release as the first statistical corrected volume balance system in 1995, Atmos Pipe has been at the forefront of leak detection technology. It uses the Sequential Probability Ratio Test (SPRT) with pressure and flow analysis to optimize leak detection. Atmos Pipe has been continually developed for more than 25 years to make it the most sophisticated and effective leak detection system in the industry. The design of Atmos Pipe assures tuning and optimization for every pipeline to minimize the effect of the following:

- Instrument faults, including telecommunication failures
- Operational changes from start-up, running, and shut-in conditions
- Fluid property changes
- Seasonal changes or supply and demand variations
- Instrument drift and calibrations

2.2 Performance

Patented algorithms manage thermal and hydraulic transients to optimize sensitivity and accuracy on the most complex pipeline networks. Self-trained filters automatically compensate for measurement errors to maximize performance:

- Field proven for over 25 years on more than 1,500 pipelines
- Detects onset, slow opening, and existing leaks
- Deployed on pipeline systems with a wide variety of physical characteristics and a variety of services
- Software solution that uses flow and pressure data from SCADA, DCS, PLC or RTU systems
- Detects leaks under all operating conditions using a setpoint of 1.5% of flow based on data from another dense phase CO2 pipeline
- Draining and filling module reduces likelihood of false alarms during pipeline commissioning

Atmos Pipe has been utilized on super critical CO2 pipelines since 2014. This experience coupled with the company's technical capability and reputation in the leak detection space, led SCS to select Atmos Pipe as the operating platform for the Midwest Carbon Express (MCE) system.

3 CONTROL CENTER AND LEAK DETECTION OVERVIEW

3.1 Primary Leak Detection

The Real-Time Transient Model (RTTM) simulates the behavior of a pipeline using computational algorithms. The model, which is driven by instrumentation installed at pipeline facilities, monitors discrepancies between the measured and calculated values which could be potentially caused by a leak. RTTM uses flow, pressure, temperature, and density among many other variables.

Tuning or optimization is the process of analyzing the results from the model and the results from the instrumentation to verify the accuracy of the data from the field. Continuous optimization captures the ability of the leak detection model to perform under a range of scenarios that happen in real-world operating conditions.

API (American Petroleum Institute) 1130 is a recommended practice incorporated by reference into 49 CFR (Code of Federal Regulations) 195.134 and 49 CFR 195.444 providing guidance for pipeline operators regarding design, operation, and maintenance of computational pipeline monitoring (CPM) systems. This recommended practice has been adopted by SCS.

API 1175 is a recommended practice providing guidance to pipeline operators regarding maintenance of a leak detection program. The intent of the standard is to support development of a high functioning, highly efficient leak detection system incorporating continuous improvement of the individual LDS (Leak Detection System) components (culture, strategies, key performance indicators, and testing). This recommended practice has also been adopted by SCS.

3.2 Secondary Detection Methods

In addition to the primary leak detection method, SCS utilizes the following secondary detection methods to create a robust system of overlapping leak detection methods:

- Volume Balance Calculation – The SCADA system monitors line pack or inventory of carbon dioxide within the pipeline system and the fluctuation over time based on deliveries and receipts. Discrepancies over time will alarm to a Supervisory Control and Data Acquisition (SCADA) system as an indication that carbon dioxide is being lost within the system.
- System Over/Short – A simple calculation comparing real-time volume into the pipeline system versus real-time volume out. Discrepancies of this calculation indicate that volume is rapidly being lost within the system.
- Rate of Change (Pressure) – Automated mainline valves with upstream and downstream pressure transmitters will monitor and automatically close upon indication of a rapid rate of change in the local pipeline pressure.
- Aerial Patrols – Each operator shall, at intervals not exceeding three weeks, but at least 26 times each calendar year, inspect the surface conditions on or adjacent to each pipeline right-of-way.

3.3 Compliance and Controller Training

3.3.1 General

This section applies to each operator of a pipeline facility with a controller working in a control room who monitors and controls all or part of a pipeline facility via a SCADA system. Each operator must follow written control room management procedures that implement this section's requirements. The procedures required by this section must be integrated, as appropriate, with the operator's written procedures required by **§ 195.402.**

3.3.2 Roles and Responsibilities

Each operator must define the roles and responsibilities for a controller during normal, abnormal, and emergency operating conditions. These roles and responsibilities must be incorporated in SCS's Control Room Management (CRM) document . To provide a controller's prompt and appropriate response to operating conditions, an operator must define each of the following:

- A controller's authority and responsibility to make decisions and take actions during normal operations.
- A controller's role when an abnormal operating condition is detected, even if the controller is not the first to detect the condition, including the controller's responsibility to take specific actions and communicate with others.
- A controller's role during an emergency, even if the controller is not the first to detect the emergency, including the controller's responsibility to take specific actions and communicate with others.
- A method of recording controller shift-changes and hand-over of responsibility between controllers.
- The roles, responsibilities and qualifications of others who have the authority to direct or supersede the specific technical actions of controllers.

3.3.3 Provide Adequate Information

Each operator must provide its controllers with the information, tools, processes, and procedures necessary for the controllers to carry out the roles and responsibilities the operator has defined by performing each of the following:

- Implement API RP (Recommended Practice) 1165 (incorporated by reference, see § 195.3) whenever a SCADA system is added, expanded, or replaced unless the operator demonstrates that certain provisions of API RP 1165 are not practical for the SCADA system used.
- Conduct a point-to-point verification between SCADA displays and related field equipment when field equipment is added or moved and when other changes that affect pipeline safety are made to field equipment or SCADA displays.
- Test and verify an internal communication plan to provide adequate means for manual operation of the pipeline safely, at least once per calendar year, but at intervals not to exceed 15 months.
- Test any backup SCADA systems at least once per calendar year, but at intervals not to exceed 15 months.
- Implement section 5 of API RP 1168 (incorporated by reference, see § 195.3) to establish procedures for a situation when a different controller assumes responsibility, including the content of information to be exchanged.

3.3.4 Fatigue Mitigation

Each operator must implement the following methods to reduce the risk associated with controller fatigue that could inhibit a controller's ability to carry out the roles and responsibilities the operator has defined:

- Establish shift lengths and schedule rotations that provide controllers off-duty time sufficient to achieve eight hours of continuous sleep.

- Educate controllers and supervisors in fatigue mitigation strategies and how off-duty activities contribute to fatigue.
- Train controllers and supervisors to recognize the effects of fatigue.
- Establish a maximum limit on controller hours-of-service, which may provide for an emergency deviation from the maximum limit if necessary for the safe operation of a pipeline facility.

3.3.5 Alarm Management

Each operator using a SCADA system must have a written alarm management plan to provide effective controller response to alarms. An operator's plan must include provisions to:

- Review SCADA safety-related alarm operations using a process that ensures alarms are accurate and support safe pipeline operations.
- At least once each calendar month identify points periods that have been taken off scan in the SCADA host, have had alarms inhibited, generated false alarms, or that have forced closure of manual values for periods exceeding that required for associated maintenance or operating activities.
- Verify the correct safety-related alarm set-point values and alarm descriptions when associated field instruments are calibrated or changed at least once per calendar year, but at intervals not to exceed 15 months.
- Review the alarm management plan at least once per calendar year, but at intervals not exceeding 15 months, to determine the effectiveness of the plan.
- Monitor the content and volume of general activity being directed to and required of each controller at least once per calendar year, but at intervals not exceeding 15 months, to assure controllers have sufficient time to analyze and react to incoming alarms.

3.3.6 Change Management

Each operator must assure that changes that could affect control room operations are coordinated with the control room personnel by performing each of the following:

- Implement section 7 of API RP 1168 (incorporated by reference, see § 195.3) for control room management change and require coordination between control room representatives, operator's management, and associated field personnel when planning and implementing physical changes to pipeline equipment or configuration.
- Require field personnel to contact the control room when emergency conditions exist and when making field changes that affect control room operations.

3.3.7 Operating Experience

Each operator must assure that lessons learned from its operating experience are incorporated, as appropriate, into its control room management procedures by performing each of the following:

- Review accidents that must be reported pursuant to § 195.50 and 195.52 to determine if control room actions contributed to the event and, if so, correct, where necessary, deficiencies related to:
    - Controller fatigue
    - Field equipment
    - The operation of any relief device

- Procedures
- SCADA system configuration
- SCADA system performance

- Include lessons learned from the operator's experience in the training program required by this section.

3.3.8 Training

Each operator must establish a controller training program and review the training program content to identify potential improvements at least once per calendar year, but at intervals not to exceed 15 months. An operator's program must provide for training each controller to carry out the roles and responsibilities defined by the operator. In addition, the training program must include the following elements:

- Responding to abnormal operating conditions likely to occur simultaneously or in sequence
- Use of a computerized simulator or non-computerized (tabletop) method for training controllers to recognize abnormal operating conditions
- Training controllers on their responsibilities for communication under the operator's emergency response procedures
- Training that will provide a controller a working knowledge of the pipeline system, especially during the development of abnormal operating conditions
- For pipeline operating setups that are periodically, but infrequently used, providing an opportunity for controllers to review relevant procedures in advance of their application
- Control room team training and exercises that include both controllers and other individuals, as defined by the operator, who would be expected to collaborate with controllers (control room personnel) during normal, abnormal, or emergency situations

3.3.9 Compliance Validation

Upon request, operators must submit their procedures to PHMSA (Pipeline Hazardous Material Safety Administration).

3.3.10 Compliance and Deviations

An operator must maintain records for review during inspection:

- Records that demonstrate compliance with the requirements
- Documentation to demonstrate that any deviation from the procedures required was necessary for the safe operation of the pipeline facility

- Controller Training
    - Atmos Trainer - United States federal regulations require pipeline companies to demonstrate that pipeline operators are adequately trained to recognize and react to abnormal operating conditions. API 1168 (Pipeline Control Room Management) and API 1175 (Pipeline Leak Detection Program Management) expect a record of pipeline operator training and a plan for continuous performance improvement. However, it is difficult to expose operators to abnormal operating conditions, such as a leak situation, when only training on a real pipeline system. Atmos Trainer combines the Atmos Sim hydraulic simulator with a SCADA user interface and a sophisticated operator scoring and qualification module to generate a fully integrated, high-fidelity gas, or liquid pipeline training environment for the operator.

These hydraulic simulators mimic the pipeline control system allowing a pipeline operator to control a virtual pipeline during normal and abnormal operating conditions. The experience is as realistic as operating a real pipeline. Although commonly used in the United States, pipeline training simulators are rarely commissioned prior to pipeline startup. SCS will have a commissioned pipeline trainer in service and training pipeline controllers prior to pipeline startup ensuring competent operation from day one of operation.

3.4 Instrumentation Specifications

Emerson Rosemount – Emerson Rosemount has been an industry leader in manufacturing robust and accurate pressure, temperature, and level instrumentation for over 50 years.

- Pressure Transmitters – Rosemount 3051S
    - Manufacturer's accuracy statement: 0.035% span accuracy, 150:1 range turndown, 15-year stability
- Temperature Transmitter – Rosemount 3144P
    - Manufacturer's accuracy statement: ± .35% of range

Emerson Micromotion - Emerson Micromotion has been an industry leader in manufacturing top quality Coriolis flow measurement instrumentation for over 45 years. Summit is using Micromotion Coriolis meters at all inlets and outlets of the pipeline. Coriolis meters are used because they offer the best possible metering accuracy compared to other types of flow measurement.

- Coriolis Flow Meter (Capture) - Micro Motion Elite 5700 with CMF300H (Capture)
    - Manufacturer's accuracy statement: .05% of Mass Rate
- Coriolis Flow Meter (Sequestration) - CMFHC2Y
    - Manufacturer's accuracy statement: .05% of Mass Rate

3.5 Additional Safeguards

3.5.1 Geohazard Monitoring

Aside from the techniques employed by field operations, SCS has the ability to utilize satellite imagery along the pipeline after an extreme weather event occurs to detect leaks or abnormal surface conditions. Using hyperspectral imaging and comparative assessments conducted over time, these satellites can identify alterations in the terrain spanning the pipeline's designated area. This approach facilitates the identification of subtle modifications in the landscape, aiding SCS in identifying exposed pipelines, dislocated earth, or other environmental shifts. Armed with this information, SCS can promptly initiate corrective measures to ensure the integrity of the pipeline.

3.5.2 Line Balancing Meters

Additional intermediate flow meters will be used in locations along the pipeline to provide additional data for pipeline inventory, line balance, and leak detection.

3.5.3 Redundant Pressure Transmitters

At each block valve site, a pair of transmitters will be used instead of a single transmitter providing redundancy in measurement. Anytime there is a discrepancy larger than 1% of span, a field calibration or repair will be initiated.

3.5.4 Quorum Software FlowCal Line Pack Calculation

FlowCal is an industry leading volumetric software package designed to check and validate calculations, be a system of record, and create statements. FlowCal is currently used on 80% of all midstream pipelines within the United States.

3.5.5 Moisture Analysis

A moisture analyzer will be installed to mitigate the risk of moisture ingress at inlets to the pipeline. Although the manufacturer and model have not been selected at the time of this publication, SCS commits to choosing the best available instrument. The moisture analyzers will assist pipeline controllers in determining when to take a capture facility offline, or if an alarm limit is exceeded, automatically isolate the moisture from entering the pipeline.

4 CONCLUSION

SCS has selected reliable and quality instrumentation used with communication networks designed to provide reliable and fast data for our software systems. We have implemented multiple layers of leak detection to ensure that if a leak occurs, it will be detected, located, isolated, and quantified as swiftly as possible. We will train and empower our pipeline controllers to proactively identify potential abnormal or emergency operating conditions and confidently act to either eliminate or mitigate risk.

The following table provides a summary of Summit's agencies consultations conducted between Summit's Petition for Reconsideration (August 18, 2023) to January 18, 2024, and between the submittal of the October 17, 2022 Application to August 17, 2023.

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Agency Communications Conducted between Summit's Petition for Reconsideration (August 18, 2023) to January 18, 2024					
Federal Agencies					
U.S. Army Corps of Engineers (USACE)	8/29/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
USACE	9/12/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
U.S. Fish and Wildlife Service (USFWS)	9/27/2023	Project Update	Heidi Riddle	Jason Zoller	Phone
USFWS	10/3/2023	Project Update	USFWS Project Team	Jason Zoller	Email
USACE	10/10/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
USACE	10/18/2023	Project Update and Outstanding RFI	Cathy Juhas; Kirsten Brown	Jason Zoller	Email
USFWS	11/1/2023	USFWS Easement Data Request	Kathy Baer	Eric Lindeen	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
USACE	11/7/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	Jason Zoller	Virtual Meeting
USFWS	11/16/2023	USFWS Easement Data Request	Jared Newton	Jason Zoller, Eric Lindeen, Ryan Clarke, Ryan Coleman	Virtual Meeting
USFWS	11/16/2023	USFWS Easement Data Request	Jared Newton	Eric Lindeen	Email
USFWS	11/17/2023	USFWS Easement Data Request	Jared Newton	Eric Lindeen	Phone
USACE	12/5/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
USACE	1/16/2024	Bi-Weekly USACE Update	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Email
State Agencies					
State Historical Society of North Dakota	9/22/2023	Cultural Resources Testing Plan	Lorna Meidinger - Lead Historic Preservationist	Metcalf Archaeological Consulting	Report
State Historical Society of North Dakota	11/3/2023	Cultural Resources Testing Plan	Lorna Meidinger - Lead Historic Preservationist	Erin Salisbury	Email
Farm Production and Conservation	11/28/2023	FOIA Time Extension Request	Patrick McLoughlin - FOIA Officer	Samantha Butler	Email
State Historical Society of North Dakota	12/5/2023	Project Update Meeting	Lorna Meidinger, Andy Clark, Andrew Robinson	Jason Zoller, Dave Daum, Erin Salisbury	In Person Meeting

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Mineral Resources	12/6/2023	Geohazard Evaluation Meeting	Ed Murphy, Fred Anderson, Chris Maike, Levi Moxness	Alex Lange, Brent Niese, Wade Boeshans	In Person Meeting
State Historical Society of North Dakota	1/9/2024	Cultural Resources Testing Plan	Lorna Meidinger - Lead Historic Preservationist	Erin Salisbury	Letter
North Dakota Department of Mineral Resources	1/9/2024	Project Update and Geohazard Report Review	Ed Murphy, Fred Anderson, Chris Maike, Levi Moxness	Alex Lange, Brent Niese, Wade Boeshans	In Person Meeting
County/Local					
McIntosh County Sheriff Department	8/24/2023	EMS and CO2 Pipeline Safety	Sheriff Steve Delzer	Dave Nehring	In Person Meeting
Logan County Sheriff Department	8/24/2023	EMS and CO2 Pipeline Safety	Sheriff Andrew Bartholomaus	Dave Nehring	In Person Meeting
Burleigh County Commissioner	8/29/2023	EMS and CO2 Pipeline Safety	Wayne Munson, County Commissioner	Dave Nehring	In Person Meeting
Oliver County Commission	9/5/2023	EMS and CO2 Pipeline Safety	Oliver County Commission	Dave Nehring	In Person Meeting
Gwinner Volunteer Fire Department (Sargent County)	9/13/2023	EMS and CO2 Pipeline Safety	Gwinner Volunteer Fire Department Personnel / D28 Legislature Reps	Charlie Adams	In Person Meeting
Richland County - Southeast Water Users District	9/14/2023	Routing and Water Line Crossings	Southeast Water Users District Manager, Steve Hansen	Charlie Adams, Jimbo Vaughn, Jessica Timmons, Scott O'Konek, Steve Hansen	In Person Meeting
Mercer County Commission	9/20/2023	Commission Meeting	Mercer County Commission	Dave Nehring	In Person Meeting

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Vision West ND	9/21/2023	Annual Meeting	Vision West ND Annual meeting	Dave Nehring	In Person Meeting
Sargent County Water Resource District	9/21/2023	Routing and Water Line Crossings	Sargent County Water Resource District Board members and staff	Scott O'Konek	In Person Meeting
Dickey County Commission and Staff	10/3/2023	Ordinance Meeting	County Commission Meeting	Scott O'Konek and Jeff Skaare	In Person Meeting
Bismarck City Commissioner	10/4/2023	EMS and CO2 Pipeline Safety	Greg Zenker, Bismarck Commissioner	Dave Nehring	In Person Meeting
ND Association of Counties	10/8-10/2023	Annual Meeting	Donelle Preskey, NDACO	Dave Nehring	In Person Meeting
Cass County Highway Department	10/25/2023	Routing and Road Crossings	Brian Busta - County Engineer, ROW agent - Cass County	Charlie Adams, Scott O'Konek	In Person Meeting
Cass County - Maple River Water Resource District	11/2/2023	Water Use	Maple River Water Resource District Managers and Staff	Charlie Adams, Scott O'Konek	Water Resource District Regular Meeting
Dickey County Emergency Management	11/7/2023	Dispersion Analysis Presentation	Dickey County EM, Ellendale Fire Chief, Ellendale Mayor, Ellendale Ambulance Chief, Dickey County Sheriff, Dickey County Highway Supervisor	Charlie Adams, Wade Boeshans, Alex Lange, Kylie Lange, Dave Nehring	In Person Meeting
Logan County Commission	11/14/2023	Commission Meeting	County Commissioners	Dave Nehring	In Person Meeting

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Mcintosh County Commission	11/14/2023	Commission Meeting - Project Update	Gina Ketterling, County Auditor	Dave Nehring	In Person Meeting
Burleigh Emergency Planning	11/27/2023	EMS and CO2 Pipeline Safety	Mary Senger, Burleigh Emergency Manager	Dave Nehring	In Person Meeting
Logan County LEPC	11/29/2023	EMS and CO2 Pipeline Safety	Daniel Schwartz, Logan EM	Dave Nehring	In Person Meeting
Morton Emergency Planning	11/30/2023	EMS and CO2 Pipeline Safety	Patrick Martin, Morton EM	Dave Nehring	In Person Meeting
Oliver & Mercer Emergency Management	12/1/2023	EMS and CO2 Pipeline Safety	Terry Ternes, Emergency Manager	Dave Nehring, Amanda Hoffer, Jay Volk, Wade Boeshans, Alex Lange, Jamey Backus, Luis Pasco, Jean Oddy	In Person Meeting
Agency Communications Conducted between Summit's Submittal of the October 17, 2022 Application and August 17, 2023					
Federal Agencies					
USACE	12/16/2023	Project Update; Discussion of Supplemental Filing	USACE Project Team	SCS Environmental Staff; EXP/Merjent/Perennial Representatives	Virtual Meeting
USFWS	1/11/2023	USFWS Update Meeting	Heidi Riddle	Jason Zoller, EXP/Merjent/Perennial Representatives	Virtual Meeting
USFWS	3/8/2023	T&E Species Study Plans	Matt Rabbe; Heidi Riddle; Charlene Bessken	John Beaver; Megan Cochran	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
USFWS	3/27/2023	USFWS Update Meeting	Heidi Riddle; Kristen Lundh; Carlita Payne	Jason Zoller, Eric Lindeen; Ross Davis; EXP/Merjent/Perennial Representatives	Virtual Meeting
USFWS	5/12/2023	USFWS Data Request	Heidi Riddle	Jason Zoller	Letter
USFWS	5/24/2023	Federal Endangered Species Permit No. ES-6113B-2	Luke Toso	Jim Reiser	Letter
USACE	6/2/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
USACE	6/26/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
USACE	7/14/2023	USACE Section 106 Review	Brant Vollman	Jason Zoller	Email
USACE	7/14/2023	USACE Supplemental Filing	Cathy Juhas	Wayne Richardson	Email
USACE	7/14/2023	Data Submittal Confirmation	Cathy Juhas	Wayne Richardson	Email
USACE	7/18/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
USACE	7/20/203	Section 106 Discussion	USACE Project Team	Jason Zoller, Eric Lindeen; Ross Davis; EXP/Merjent Representatives	Virtual Meeting

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
USFWS	7/27/2023	USFWS Update Meeting	Heidi Riddle; Kristen Lundh; Carlita Payne	Jason Zoller, Eric Lindeen; Ross Davis; EXP/Merjent Representatives	Virtual Meeting
USACE	8/1/2023	Bi-Weekly USACE Update Meeting	USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
USFWS/USACE	8/9/2023	Project Update Call	USFWS and USACE Project Team	SCS Environmental Staff; EXP/Merjent Representatives	Virtual Meeting
USACE	8/11/2023	Project Update Meeting and Section 106 Review	USACE Omaha District Staff	Jason Zoller, Alvin Banguilan	In Person Meeting
USACE	8/17/2023	Project Update Meeting and Section 106 Review	USACE St. Paul District Staff	Jason Zoller, Bill Harding	In Person Meeting
USACE	8/2/2023	Project Update Meeting and Section 106 Review	Brant Vollman (Rock Island District)	Jason Zoller, Ernie Ladkani	In Person Meeting
State Agencies					
North Dakota Department of Water Resources	10/19/2022	ND PSC Application	Steve Best	Jason Zoller	Phone
North Dakota Department of Game & Fish	3/23/2023	Conservation Section Inquiry	Sandra Johnson - Conservation Biologist	Sarah Lewis	Email
North Dakota Department of Mineral Resources	3/28/2023	Project Introduction Meeting	Ed Murphy, Fred Anderson, Chris Maike, Levi Moxness, Ben York	Alex Lange, Brent Niese, Jeff Skaare, Jay Volk	Virtual Meeting

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
State Historical Society of North Dakota	5/4/2023	Revised Class III Report Submittal	Dr. Andrew Clark - Chief Archaeologist	Jason Zoller	Letter
State Historical Society of North Dakota	5/4/2023	Archaeological Testing Strategy	Dr. Andrew Clark - Chief Archaeologist	Erin Salisbury	Letter
State Historical Society of North Dakota	5/5/2023	Class I Inventory Data Request	Timothy Reed - Research Archaeologist	Erin Salisbury	Letter
North Dakota Department of Water Resources; North Dakota Department of Game and Fish (NDGF); North Dakota Department of Environmental Quality (DEQ)	6/8/2023	North Dakota Project Update	Tia Dolechek, Jerry Heiser, Aaron Carranza, Bruce Kreft, Elisha Mueller, John Schumacher, and Peter Wax	Jason Zoller	Virtual Meeting
State Historical Society of North Dakota	6/23/2023	Cultural Report Discussion	Lorna Meidinger, Andrew Robinson, Andrew Clark	Erin Salisbury, Zonna Barnes	Virtual Meeting
State Historical Society of North Dakota	8/10/2023	Project Update/ PSC Order	Lorna Meidinger	Jason Zoller, David Daum, Erin Salisbury	Virtual Meeting
County/Local					
Menoken Township	10/17/2022	Project Update and Permitting	Belinda Maher	Brett Langston	Phone
City of Milnor	10/17/2022	Project Update and Permitting	Ryan Smith, Public Works Superintendent	Brett Langston	Phone
Boyd Township	10/17/2022	Project Update and Permitting	Susan McLean, Town Clerk	Brett Langston	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Morton Township	10/17/2022	Project Update and Permitting	Jackie Buckley, Commissioner	Brett Langston	Phone
Leonard Township	10/17/2022	Project Update and Permitting	Trina Nudell	Brett Langston	Phone
Everest Township	10/17/2022	Project Update and Permitting	Brian Otteson	Brett Langston	Phone
Apple Creek Township	10/17/2022	Project Update and Permitting	Stephen Sahnaible	Brett Langston	Phone
Barney Township	10/17/2022	Project Update and Permitting	James Stallman, Chairman	Charity Ruley	Phone
Barrie Township	10/17/2022	Project Update and Permitting	Rock Rustad, Chairman	Charity Ruley	Phone
Center Township	10/17/2022	Project Update and Permitting	Rod Romereium, Chairman	Charity Ruley	Phone
Danton Township	10/17/2022	Project Update and Permitting	William Klosterman	Charity Ruley	Phone
Dexter Township	10/17/2022	Project Update and Permitting	Nick Podliska	Charity Ruley	Phone
Garborg Township	10/17/2022	Project Update and Permitting	Todd Woodbury	Charity Ruley	Phone
Homestead Township	10/17/2022	Project Update and Permitting	Todd Foertsch	Charity Ruley	Phone
Mooreton Township	10/17/2022	Project Update and Permitting	Gene Wefel	Charity Ruley	Phone
Viking Township	10/17/2022	Project Update and Permitting	James D Anderson	Charity Ruley	Phone
Liberty Grove Township	10/17/2022	Project Update and Permitting	Jody Kuzel	Charity Ruley	Phone
McIntosh County	10/18/2022	Project Update and Permitting	Bryan Tykwinski and Jason Manlove, KLJ Engineering	Brian Stouffer	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Telfer Township	10/18/2022	Project Update and Permitting	Robert Mehlhoff, Building Inspections	Brian Stouffer	Email
Cass County	10/18/2022	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Dickey County	10/18/2022	Project Update and Permitting	County Commissioners	Charity Ruley	Commissioners Meeting
Maple River Township	10/18/2022	Project Update and Permitting	Carl Piper	Joey Borracci	Email
Dickey County	10/19/2022	Project Update and Permitting	Wanda Sheppard - Auditor	Joey Borracci	Email
Davenport Township	10/19/2022	Project Update and Permitting	Brenda Sagert- Receptionist	Brett Langston	In Person Meeting
McIntosh County	10/19/2022	Project Update and Permitting	Bryan Tykwinski, KLJ Engineering, County Engineering Consultant	Brian Stouffer	Email
McIntosh County	10/19/2022	Project Update and Permitting	Chris Opsahl, McIntosh County Highway Department Representative	Brian Stouffer	Email
Davenport Township	10/19/2022	Project Update and Permitting	Jason Lotzer- Mayor	Brett Langston	In Person Meeting
Leonard Township	10/19/2022	Project Update and Permitting	Tracey Jacobson, Mayor	Brett Langston	In Person Meeting
City of Christine	10/19/2022	Project Update and Permitting	Jeremy Klumper- Vice Mayor	Brett Langston	In Person Meeting
City of Walcott	10/19/2022	Project Update and Permitting	Lee Vinning- Mayor	Brett Langston	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
City of Colfax	10/19/2022	Project Update and Permitting	Town Hall	Brett Langston	Phone
Dickey County	10/19/2022	Project Update and Permitting	Jeff Hagen – Highway Superintendent	Joey Borracci	Phone
McIntosh County	10/19/2022	Project Update and Permitting	Chris Opsahl – Highway Superintendent	Joey Borracci	Email
Leonard Township	10/19/2022	Project Update and Permitting	Kyle Olson	Charity Ruley	Email
Davenport Township	10/19/2022	Project Update and Permitting	Vernon Liebelt	Charity Ruley	Email
Leonard Township	10/19/2022	Project Update and Permitting	Mark Nesemeie	Charity Ruley	Email
Oliver County	10/19/2022	Project Update and Permitting	John Wicklund, Planning & Zoning Director	Brian Stouffer	Email
Leonard Township	10/20/2022	Project Update and Permitting	Matthew Heuer	Charity Ruley	Phone
Davenport Township	10/20/2022	Project Update and Permitting	Vernon Liebelt	Charity Ruley	Phone
Everest Township	10/20/2022	Project Update and Permitting	Caryn Weber	Charity Ruley	Email
Leonard Township	10/20/2022	Project Update and Permitting	Mark Nesemeuer	Charity Ruley	Phone
Casselton Township	10/20/2022	Project Update and Permitting	Ralph Johnson Jr. - Zoning Administrator	Joey Borracci	Phone
Casselton Township	10/20/2022	Project Update and Permitting	Ryan Radermacher	Charity Ruley	Phone
Richland County	10/20/2022	EMS and CO2 Pipeline Safety	Jill Brewer, Communications 911 Manager	Brian Stouffer	Phone
Emmons County	10/20/2022	Project Update and Permitting	Auditor – Marlys Ohlhauser	Joey Borracci	Email
Everest Township	10/20/2022	Project Update and Permitting	Caryn Weber	Charity Ruley	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Leonard Township	10/21/2022	Project Update and Permitting	Mark Nesemeuer	Charity Ruley	Phone
Dickey County	10/24/2022	Project Update and Permitting	Wanda Sheppard - Auditor	Joey Borracci	Email
North Dakota Department of Transportation	10/24/2022	Project Update and Permitting	Brad Kerzman, D1 Material Coordinator	Jordan Maslonik	Phone
North Dakota Department of Transportation	10/24/2022	Project Update and Permitting	Brad Kerzman, D1 Material Coordinator	Jordan Maslonik	Phone
Jackson Township	10/24/2022	Project Update and Permitting	Dan Delahoyde	Charity Ruley	Phone
Casselton Township	10/24/2022	Project Update and Permitting	Ralph Johnson Jr. – Chairman; Ryan Radermacher - Chairmand	Charity Ruley	Virtual Meeting
Telfer Township	10/25/2022	Project Update and Permitting	Andy Buntrock	Charity Ruley	Email
North Dakota Department of Transportation	10/25/2022	Project Update and Permitting	Monte Dockter, Utility Engineer, Kirk Hoff, Design Engineer, Derek Pfeifer, Program Manager Design Division	Jordan Maslonik	Email
Elm Township	10/25/2022	Project Update and Permitting	Jeff Goehring	Charity Ruley	Phone
Morton County	10/25/2022	Project Update and Permitting	John Saiki – County Engineer	Joey Borracci	Email
Dunbar Township	10/26/2022	Project Update and Permitting	Dennis Brezicka	Charity Ruley	Phone
Dickey County	10/26/2022	Project Update and Permitting	Wanda Sheppard - Auditor	Joey Borracci	Email
McIntosh County	10/26/2022	Project Update and Permitting	Gina Ketterling - Auditor	Joey Borracci	Email
Shuman Township	10/27/2022	Project Update and Permitting	David Lunneborg	Charity Ruley	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	10/27/2022	Project Update and Permitting	Monte Dockter, Utility Engineer, Kirk Hoff, Design Engineer, Derek Pfeifer, Program Manager Design Division	Jordan Maslonik	Email
Van Meter Township	10/27/2022	Project Update and Permitting	Trevor Hokana	Charity Ruley	Phone
Bowen Township	10/27/2022	Project Update and Permitting	Bill Beaver	Charity Ruley	Phone
Herman Township	10/27/2022	Project Update and Permitting	Tyler Sprech	Charity Ruley	Phone
North Dakota Department of Transportation	10/28/2022	Project Update and Permitting	Brad Kerzman, D1 Material Coordinator	Jordan Maslonik	Phone
North Dakota Department of Transportation	10/31/2022	Project Update and Permitting	Troy Gilbertson, D8 Maintenance Coordinator	Jordan Maslonik	Phone
North Dakota Department of Transportation	10/31/2022	Project Update and Permitting	Troy Gilbertson, D8 Maintenance Coordinator	Jordan Maslonik	Phone
Cass County	10/31/2022	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Harlem Township	10/31/2022	Project Update and Permitting	Robert Ptacek	Charity Ruley	Phone
Sargent Township	10/31/2022	Project Update and Permitting	Ed Juran	Charity Ruley	Phone
Sargent County	10/31/2022	Project Update and Permitting	Pam Maloney, Auditor	Charity Ruley	Phone
Dickey County	11/1/2022	Project Update and Permitting	County Commissioners	Joey Borracci	Commissioners Meeting
Sargent County	11/2/2022	Project Update and Permitting	Tim Faber, Highway Department Superintendent	Charity Ruley	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Davenport Township	11/2/2022	Project Update and Permitting	Jason Lotzer - Mayor	Brett Langston	Phone
City of Christine	11/2/2022	Project Update and Permitting	Jeremy Klumper- Vice Mayor	Brett Langston	Phone
Cass County	11/2/2022	Project Update and Permitting	Brian Busta – County Engineer	Joey Borracci	In Person Meeting
Cass County	11/3/2022	Project Update and Permitting	Brian Busta – County Engineer	Joey Borracci	In Person Meeting
City of Linton	11/3/2022	Project Update and Permitting	Sharon Jangula- City Clerk	Brett Langston	Phone
City of New Salem	11/3/2022	Project Update and Permitting	City Clerk	Brett Langston	Phone
City of Beulah	11/3/2022	Project Update and Permitting	City Hall	Brett Langston	Phone
City of Hebron	11/3/2022	Project Update and Permitting	City Hall	Brett Langston	Phone
City of Beulah	11/3/2022	Project Update and Permitting	Gary- Water Plant	Brett Langston	Phone
Cass County	11/3/2022	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Barney Township	11/4/2022	Project Update and Permitting	Marilyn Stallman	Charity Ruley	Phone
Sargent Township	11/4/2022	Project Update and Permitting	Lujuana Hayen	Charity Ruley	Phone
Riverdale Township	11/4/2022	Project Update and Permitting	LINDA VISTO	Charity Ruley	Phone
Barrie Township	11/4/2022	Project Update and Permitting	Harlan Bernstein	Charity Ruley	Phone
Barney Township	11/4/2022	Project Update and Permitting	Marilyn Stallman	Charity Ruley	Email
Barney Township	11/4/2022	Project Update and Permitting	Dan Pellman	Charity Ruley	Phone
Barney Township	11/10/2022	Project Update and Permitting	Dan Pellman	Charity Ruley	Phone
Barrie Township	11/10/2022	Project Update and Permitting	Harlan Bernstein	Charity Ruley	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
McIntosh County	11/15/2022	EMS and CO2 Pipeline Safety	Steve Delzer, 911 Coordinator/Sheriff	Brian Stouffer	Phone
Barney Township	11/15/2022	Project Update and Permitting	Dan Pellman	Charity Ruley	Phone
Cass County	11/17/2022	Project Update and Permitting	Grace Puppe,	Judah Lopez	Phone
Port Emma Township	11/18/2022	Project Update and Permitting	Terry Anderson	Charity Ruley	Phone
Dickey County	11/18/2022	EMS and CO2 Pipeline Safety	Charlie Russell, Director of Emergency Management, Dickey County	Judah Lopez	Email
Everest Township	11/20/2022	Project Update and Permitting	Caryn Webber	Charity Ruley	Email
Port Emma Township	11/21/2022	Project Update and Permitting	Terry Anderson	Charity Ruley	Phone
Burleigh County	11/21/2022	Project Update and Permitting	Casey Einrem - Engineer	Joey Borracci	Email
Emmons County	11/21/2022	Project Update and Permitting	Marlys Ohlhauser - Auditor	Joey Borracci	Email
Richland County	11/21/2022	Project Update and Permitting	Jesse Sedler - Highway Superintendent	Joey Borracci	Email
Cass County	11/21/2022	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Sargent County	11/21/2022	Project Update and Permitting	Tim Faber - Highway Superintendent	Joey Borracci	Email
Dickey County	11/21/2022	Project Update and Permitting	Jeff Hagen - Highway Superintendent	Joey Borracci	Email
Dickey County	11/23/2022	Project Update and Permitting	Justin Quandt	Charity Ruley	Phone
Everest Township	11/28/2022	Project Update and Permitting	Caryn Weber	Charity Ruley	Email
Sargent County	11/28/2022	Project Update and Permitting	Justin Quandt	Jessica Timmons	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Richland County	11/28/2022	EMS and CO2 Pipeline Safety	Jill Brewer, Communications 911 Manager	Brian Stouffer	Phone
Everest Township	11/28/2022	Project Update and Permitting	Caryn Weber	Charity Ruley	Email
Ada Township	11/28/2022	Project Update and Permitting	DEBRA MERKEL	Charity Ruley	Phone
Riverdale Township	11/28/2022	Project Update and Permitting	LINDA VISTO	Charity Ruley	Phone
Richland County	11/28/2022	Project Update and Permitting	Jesse Sedler - Highway Department	Joey Borracci	Email
Burleigh County	11/28/2022	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Dickey County	11/28/2022	Project Update and Permitting	Jeff Hagen - Highway Superintendent	Joey Borracci	Email
Sargent County	11/28/2022	Project Update and Permitting	Tim Faber - Highway Superintendent	Joey Borracci	Email
Burleigh County	11/28/2022	Project Update and Permitting	Casey Einrem - Engineer	Joey Borracci	Email
Morton County	11/28/2022	Project Update and Permitting	John Saiki - Engineer	Joey Borracci	Email
Richland County	11/28/2022	EMS and CO2 Pipeline Safety	Jill Breuer, Richland County Communications/911 Manager	Brian Stouffer	Phone
Richland County	11/28/2022	EMS and CO2 Pipeline Safety	Jill Breuer, Richland County Communications/911 Manager	Brian Stouffer	Email
Dickey County	11/28/2022	Project Update and Permitting	Justin Quandt, Board Member Irrigation District	Jessica Timmons	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Dickey County	11/29/2022	Project Update and Permitting	Justin Quandt, Board Member Irrigation District	Jessica Timmons	Phone
Richland County	11/29/2022	EMS and CO2 Pipeline Safety	Jill Breuer, Richland County Communications/911 Manager	Brian Stouffer	Email
Cass County	11/29/2022	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Cass County	11/30/2022	EMS and CO2 Pipeline Safety	Kay Anderson, 911 Coordinator/GIS Manager, Cass County, ND	Judah Lopez	Phone
Morton County	12/1/2022	Project Update and Permitting	John Saiki - Engineer	Joey Borracci	Email
Sargent County	12/1/2022	Project Update and Permitting	Pam Maloney - Auditor	Joey Borracci	Email
Garborg Township	12/5/2022	Project Update and Permitting	Marhsall Braaten, Chairman	Charity Ruley	Phone
Riverdale Township	12/5/2022	Project Update and Permitting	Charnell Haak	Charity Ruley	Phone
Dickey County	12/2/2022	Project Update and Permitting	Justin Quandt, Board Member Irrigation District	Jessica Timmons	Email
Burleigh County	12/5/2022	Project Update and Permitting	Casey Einrem - Engineer	Joey Borracci	Email
Logan County	12/5/2022	Project Update and Permitting	Brenda Fisher - Auditor	Joey Borracci	Email
Dickey County	12/6/2022	Project Update and Permitting	Justin Quandt, Board Member Irrigation District	Jessica Timmons	Phone
Logan County	12/7/2022	Project Update and Permitting	Brenda Fisher - Auditor	Joey Borracci	Email
Oliver County	12/12/2022	Project Update and Permitting	Kyle Miller - Highway Superintendent	Joey Borracci	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Sargent County	12/12/2022	Project Update and Permitting	Tim Faber - Highway Superintendent	Joey Borracci	Email
Mercer County	12/13/2022	Project Update and Permitting	Ken Miller - Highway Department	Joey Borracci	Phone
Morton County	12/13/2022	Project Update and Permitting	Dawn Rhone - Auditor	Joey Borracci	Email
McIntosh County	12/14/2022	Project Update and Permitting	Chris Opsahl - Highway Superintendent	Joey Borracci	Email
Cass County	12/14/2022	Project Update and Permitting	Shari Halland – Highway Department	Joey Borracci	In Person Meeting
Burleigh County	12/14/2022	Project Update and Permitting	Casey Einrem - Engineer	Joey Borracci	Email
Logan County	12/14/2022	Project Update and Permitting	Brenda Fisher - Auditor	Joey Borracci	Email
Dickey County	12/15/2022	Project Update and Permitting	Wanda Shepard -Auditor	Joey Borracci	Email
Emmons County	12/15/2022	Project Update and Permitting	Marlys Ohlhauser - Auditor	Joey Borracci	Email
Richland County	12/15/2022	Project Update and Permitting	Jesse Sedler - Highway Superintendent	Joey Borracci	Email
Cass County	12/16/2022	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Naughton Township	12/16/2022	Project Update and Permitting	Linda Buchmann, Treasurer	Charity Ruley	Phone
Francis Township	12/17/2022	Project Update and Permitting	Bill Kershaw	Charity Ruley	Phone
Ada Township	12/17/2022	Project Update and Permitting	Debra Merkel	Charity Ruley	Phone
Oliver County	12/19/2022	Project Update and Permitting	Kyle Miller - Highway Superintendent	Joey Borracci	Email
Mercer County	12/19/2022	Project Update and Permitting	Ken Miller - Highway Superintendent	Joey Borracci	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	12/19/2022	Project Update and Permitting	Brad Kerzman, D1 Material Coordinator	Jordan Maslonik	Phone
Mercer County	12/20/2022	Project Update and Permitting	Ken Miller - Highway Superintendent	Joey Borracci	Email
Sargent County	12/19/2022	Project Update and Permitting	Tim Faber – Highway Supervisor	Joey Borracci	In Person Meeting
Cass County	12/21/2022	Project Update and Permitting	Brian Busta – County Engineer; Tom Saucy – Deputy County Engineer	Joey Borracci	In Person Meeting
Dickey County	12/22/2022	Project Update and Permitting	Jeff Hagen – Highway Superintendent	Joey Borracci	In Person Meeting
Richland County	12/26/2022	Project Update and Permitting	Jesse Sedler – Highway Department Superintendent	Joey Borracci	In Person Meeting
Dickey County	12/27/2022	Project Update and Permitting	Jeff Hagen - Highway Superintendent	Joey Borracci	Email
Emmons County	12/27/2022	Project Update and Permitting	Mary Ohlhauser - Auditor	Joey Borracci	In Person Meeting
Dickey County	12/28/2022	Project Update and Permitting	Wanda Sheppard - Auditor	Joey Borracci	Email
Logan County	12/29/2022	Project Update and Permitting	Brenda Fisher - Auditor	Joey Borracci	In Person Meeting
Danton Township	12/30/2022	Project Update and Permitting	William Klosterman	Charity Ruley	Phone
ND State Fire Marshal	1/2/2023	EMS and CO2 Pipeline Safety	Kirstin Greaney-Stanger, Deputy State Fire Marshal	Brian Stouffer	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
ND State Fire Marshal	1/3/2023	EMS and CO2 Pipeline Safety	Kirstin Greaney-Stanger, Deputy State Fire Marshal	Brian Stouffer	Email
Oliver County	1/3/2023	Project Update and Permitting	John Wicklund, Planning & Zoning Director	Brian Stouffer	Email
Cass County	1/3/2023	Project Update and Permitting	New State Attorney	Joey Borracci	Phone
McIntosh County	1/3/2023	Project Update and Permitting	Gina Ketterling - Auditor	Joey Borracci	Phone
Oliver County	1/2/2023	Project Update and Permitting	Kyle Miller - Highway Superintendent	Joey Borracci	Email
Logan County	1/2/2023	Project Update and Permitting	Blanche Schumacher - County Commissioner	Joey Borracci	Email
Cass County	1/2/2023	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Cass County	1/4/2023	Project Update and Permitting	Brian Busta - County Engineer	Joey Borracci	Email
Cass County	1/4/2023	Project Update and Permitting	Kimberly Hecter - State Attorney	Joey Borracci	Phone
Oliver County	1/4/2023	Project Update and Permitting	Kyle Miller - Highway Superintendent and Jaden Schmidt -Auditor	Joey Borracci	Email
Cass County	1/6/2023	Project Update and Permitting	Kimberlee Hegvik - State Attorney	Joey Borracci	Email
Burleigh County	1/9/2023	Project Update and Permitting	County Commissioners	Ragan Langrell	Commissioners Meeting

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Jackson Township	1/11/2023	Project Update and Permitting	Daniel Delahoyde	Charity Ruley	Phone
Sargent County	1/10/2023	Project Update and Permitting	Pamela Maloney - Auditor	Joey Borracci	In Person Meeting
Sargent County	1/11/2023	Project Update and Permitting	Damon Devillers - Interstate Engineering	Joey Borracci	Email
Richland County	1/11/2023	Project Update and Permitting	Sandy Fossum - Auditor	Joey Borracci	In Person Meeting
North Dakota Department of Transportation	1/13/2023	Project Update and Permitting	Brad Kerzman, D1 Material Coordinator	Jordan Maslonik	Phone
North Dakota Department of Transportation	1/13/2023	Project Update and Permitting	Brad Kerzman, D1 Material Coordinator	Jordan Maslonik	Email
North Dakota Department of Transportation	1/17/2023	Project Update and Permitting	Brad Kerzman, D1 Material Coordinator	Jordan Maslonik	Phone
North Dakota Department of Transportation	1/17/2023	Project Update and Permitting	Troy Gilbertson; Brad Kerzman; Kathy Beach; Heather Brew	Jordan Maslonik	Email
McIntosh County	1/17/2023	Project Update and Permitting	Ken Miller – Highway Department Superintendent	Joey Borracci	In Person Meeting
McIntosh County	1/18/2023	Project Update and Permitting	KLJ Engineering – Jason Manlove	Joey Borracci	Phone
City of Lidgerwood	6/27/2022	Project Update and Permitting	Gavin Steffens-Superintendent	Brett Langston	Phone
Mercer County	1/19/2023	Project Update and Permitting	Ken Miller - Highway Superintendent	Joey Borracci	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Mercer County	1/20/2023	Project Update and Permitting	Ken Miller - Highway Superintendent	Joey Borracci	Email
Mercer County	1/22/2023	Project Update and Permitting	Ken Miller - Highway Superintendent	Joey Borracci	Email
Mercer County	1/23/2023	Project Update and Permitting	Samantha Melberg - Auditor	Joey Borracci	Phone
Oliver County	1/23/2023	Project Update and Permitting	Jaden Schmidt - Auditor	Joey Borracci	Email
Logan County	1/23/2023	Project Update and Permitting	Blanche Schumacher – County Commissioner Chairperson	Joey Borracci	Email
Oliver County	1/23/2023	Project Update and Permitting	Jaden Schmidt - Auditor	Joey Borracci	Email
Emmons County	1/26/2023	Project Update and Permitting	County Commissioners	Joey Borracci	Commissioners Meeting
City of Fargo	1/30/2023	Project Update and Permitting	Kellen Grubb, AE2S, consulting engineers to Fargo	Brian Stouffer	Email
North Dakota Department of Transportation	2/1/2023	Project Update and Permitting	Brad Kerzman Materials Coordinator - NDDOT BISMARCK DISTRICT	Jordan Maslonik	Email
North Dakota Department of Transportation	2/1/2023	Project Update and Permitting	Heather Brew - Transportation Construction Administrator, D5	Jordan Maslonik	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	2/1/2023	Project Update and Permitting	Troy Gilbertson, NDDOT, Fargo	Jordan Maslonik	Email
North Dakota Department of Transportation	2/1/2023	Project Update and Permitting	Kathy Beach - Maintenance Coordinator Valley City NDDOT	Jordan Maslonik	Email
Mercer County	2/1/2023	Project Update and Permitting	County Commissioners	Joey Borracci	Commissioners Meeting
Herman Township	2/3/2023	Project Update and Permitting	Tyler Speich	Charity Ruley	Phone
Viking Township	2/4/2023	Project Update and Permitting	James Anderson	Charity Ruley	Phone
Homestead Township	2/6/2023	Project Update and Permitting	Paul Ptacek, clerk/treasurer	Charity Ruley	Email
Dunbar Township	2/8/2023	Project Update and Permitting	Dennis Brezicka	Charity Ruley	Phone
Jackson Township	2/8/2023	Project Update and Permitting	Dan Delahoyde	Charity Ruley	Phone
Viking Township	2/9/2023	Project Update and Permitting	Gary Lee	Charity Ruley	Phone
Herman Township	2/10/2023	Project Update and Permitting	Betsy Speich	Charity Ruley	Email
North Dakota Department of Transportation	2/10/2023	Project Update and Permitting	Kathy Beach - Maintenance Coordinator Valley City NDDOT	Jordan Maslonik	Email
North Dakota Department of Transportation	2/14/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator	Jordan Maslonik	Email
Dunbar Township	2/18/2023	Project Update and Permitting	Dennis Brezicka	Charity Ruley	Phone
Riverdale Township	2/25/2023	Project Update and Permitting	Linda Visto	Charity Ruley	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
City of Fargo	2/28/2023	Project Update and Permitting	Jim Hausauer, City of Fargo; Brent Brinkman, Cass Rural Water; Jerry Blomeke, Cass Rural Water; Kellen Grubb, AE2S	Brian Stouffer	Email
City of Fargo	3/2/2023	Project Update and Permitting	Brent Brinkman, Cass Rural Water	Brian Stouffer	Email
Casselton Township	3/8/2023	Project Update and Permitting	Ryan Radermacher - Chairman	Charity Ruley	Email
Riverdale Township	3/9/2023	Project Update and Permitting	Jeffrey Bertsch	Charity Ruley	Email
Herman Township	3/9/2023	Project Update and Permitting	Betsy Speich	Charity Ruley	Phone
Herman Township	3/9/2023	Project Update and Permitting	Betsy Speich	Charity Ruley	Email
City of Fargo	3/11/2023	Project Update and Permitting	Jerry Blomeke, Cass Rural Water; Brent Brinkman, Cass Rural Water ; Kellen Grubb, AE2S ; Jim Hausauer, City of Fargo	Brian Stouffer	Email
Jackson Township	3/15/2023	Project Update and Permitting	Dan Delahoyde	Charity Ruley	Phone
Jackson Township	3/15/2023	Project Update and Permitting	Dan Delahoyde	Charity Ruley	Email
North Dakota Department of Transportation	3/16/2023	Project Update and Permitting	Troy Gilbertson Maintenance Coordinator D8	Jordan Maslonik	Email
North Dakota Department of Transportation	3/17/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator D2	Jordan Maslonik	Email
North Dakota Department of Transportation	3/17/2023	Project Update and Permitting	Brad Kerzman Material Coordinator D1	Jordan Maslonik	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Leonard Township	3/23/2023	Project Update and Permitting	Mark Nesemeuer	Charity Ruley	Email
Port Emma Township	3/23/2023	Project Update and Permitting	Marty Visto	Charity Ruley	Phone
Ellendale Township	3/23/2023	Project Update and Permitting	Donald Nishek	Charity Ruley	Phone
Van Meter Township	3/23/2023	Project Update and Permitting	Trevor Hokana	Charity Ruley	Phone
Center Township	3/23/2023	Project Update and Permitting	Rod Romereim	Charity Ruley	Phone
Dexter Township	3/23/2023	Project Update and Permitting	Jesse Frolek	Charity Ruley	Phone
Port Emma Township	3/23/2023	Project Update and Permitting	Marty Visto	Charity Ruley	Phone
North Dakota Department of Transportation	3/24/2023	Project Update and Permitting	Nichols, Glenda	Jordan Maslonik	Email
City of Fargo	3/27/2023	Project Update and Permitting	Jerry Blomeke, General Manager, Cass Rural Water District	Brian Stouffer	Email
Gibbs Township	3/28/2023	Project Update and Permitting	Gerald Miller	Charity Ruley	Email
North Dakota Department of Transportation	3/31/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator D2	Jordan Maslonik	Email
North Dakota Department of Transportation	3/31/2023	Project Update and Permitting	Troy Gilbertson Maintenance Coordinator D8	Jordan Maslonik	Email
City of Fargo	4/3/2023	Project Update and Permitting	Jerry Blomeke	Brian Stouffer	Email
Port Emma Township	4/4/2023	Project Update and Permitting	Marty Visto	Charity Ruley	Email
Riverdale Township	4/6/2023	Project Update and Permitting	Linda Visto	Charity Ruley	Email
ND State Electrical Department	4/6/2023	Project Update and Permitting	Doug, Lead Electrical Inspector	Brian Stouffer	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	4/5/2023	Project Update and Permitting	Troy Gilbertson Maintenance Coordinator D8	Jordan Maslonik	Email
North Dakota Department of Transportation	4/5/2023	Project Update and Permitting	Brad Kerzman Material Coordinator D1	Jordan Maslonik	Email
Riverdale Township	4/10/2023	Project Update and Permitting	Lind Visto	Charity Ruley	Email
Riverdale Township	4/11/2023	Project Update and Permitting	Linda Visto	Charity Ruley	Email
City of Fargo	4/11/2023	Project Update and Permitting	Jerry Blomeke, General Manager, Cass Rural Water District	Brian Stouffer	Phone
North Dakota Department of Transportation	4/11/2023	Project Update and Permitting	Brad Kerzman Material Coordinator D1	Jordan Maslonik	Email
Leonard Township	4/12/2023	Project Update and Permitting	Mark Nesemeuer	Charity Ruley	Phone
Riverdale Township	4/12/2023	Project Update and Permitting	Linda Visto	Charity Ruley	Email
Hudson Township	4/13/2023	Project Update and Permitting	Mitch Roney, Clerk	Charity Ruley	Phone
Van Meter Township	4/14/2023	Project Update and Permitting	Trevor Hokana	Charity Ruley	Text
North Dakota Department of Transportation	4/18/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator D2	Jordan Maslonik	Email
City of Fargo	4/19/2023	Project Update and Permitting	James Hausauer	Brian Stouffer	Email
City of Fargo	4/20/2023	Project Update and Permitting	Jim Hausauer, Fargo Utility Director, and Jerry Blomeke, Cass Rural Water Director	Brian Stouffer	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	4/20/2023	Project Update and Permitting	Katie Brown NDDOT Administrative Assist| Fargo District	Jordan Maslonik	Email
Harlem Township	4/24/2023	Project Update and Permitting	Angela Bauer	Charity Ruley	Phone
Garborg Township	4/24/2023	Project Update and Permitting	Marhsall Braaten, Chairman	Charity Ruley	Phone
Shuman Township	4/24/2023	Project Update and Permitting	David Lunneborg	Charity Ruley	Phone
Harlem Township	4/24/2023	Project Update and Permitting	Robert Ptacek	Charity Ruley	Phone
Dickey County	4/24/2023	EMS and CO2 Pipeline Safety	Charlie Russell, Emergency Management Director	Judah Lopez	Email
Harlem Township	4/24/2023	Project Update and Permitting	Ray Bauer	Charity Ruley	Phone
Barrie Township	5/1/2023	Project Update and Permitting	Harlan Berstein, Chairman	Charity Ruley	Phone
Barney Township	5/8/2023	Project Update and Permitting	Dan Pellman	Charity Ruley	Phone
Bowen Township	5/8/2023	Project Update and Permitting	Janelle Beaver	Charity Ruley	Phone
Bowen Township	5/8/2023	Project Update and Permitting	Janelle Beaver	Charity Ruley	Email
City of Fargo	5/8/2023	Project Update and Permitting	James Hausauer, Fargo Utility Director; Jerry Blomeke, Cass Rural Water Director	Brian Stouffer	Email
Bowen Township	5/9/2023	Project Update and Permitting	Janelle Beaver, Bowen Township Clerk	Charity Ruley	Email
Barney Township	5/10/2023	Project Update and Permitting	Dan Pellman	Charity Ruley	Phone
Emmons County	5/11/2023	EMS and CO2 Pipeline Safety	Mark Pearson, Chief Deputy Sheriff	Judah Lopez	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Emmons County	5/12/2023	EMS and CO2 Pipeline Safety	Gary Sanders, Emmons County Sheriff	Judah Lopez	Email
Barney Township	5/15/2023	Project Update and Permitting	Dan Pellman	Charity Ruley	Text
City of Fargo	5/17/2023	Project Update and Permitting	Maek Miller, Water Reclamation Utility Superintendent	Brian Stouffer	Email
City of Fargo	5/17/2023	Project Update and Permitting	Mark Miller, Water Utility Superintendent	Brian Stouffer	Email
City of Fargo	5/22/2023	Project Update and Permitting	Ryan Grubb, Engineer with AE2S	Brian Stouffer	Phone
North Dakota Department of Transportation	5/24/2023	Project Update and Permitting	Heather Brew Transportation Construction Administrator D5	Jordan Maslonik	Email
North Dakota Department of Transportation	5/25/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator D2	Jordan Maslonik	Phone
North Dakota Department of Transportation	5/24/2023	Project Update and Permitting	Brad Kerzman Material Coordinator D1	Jordan Maslonik	Phone
North Dakota Department of Transportation	5/26/2023	Project Update and Permitting	Heather Brew Transportation Construction Administrator D5	Jordan Maslonik	Email
North Dakota Department of Transportation	5/31/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator D2	Jordan Maslonik	Phone
Barney Township	6/1/2023	Project Update and Permitting	Dan Pellman	Charity Ruley	Phone

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	6/2/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator D2	Jordan Maslonik	Phone
Hudson Township	6/2/2023	Project Update and Permitting	Mitch Roney	Charity Ruley	Phone
Mooreton Township	6/3/2023	Project Update and Permitting	Gene Wefel	Charity Ruley	Phone
Mooreton Township	6/3/2023	Project Update and Permitting	Jody Kuzel	Charity Ruley	Phone
Center Township	6/6/2023	Project Update and Permitting	Rod Romereium	Charity Ruley	Phone
Barrie Township	6/9/2023	Project Update and Permitting	Harlan Bernstein	Charity Ruley	Phone
North Dakota Department of Transportation	6/15/2023	Project Update and Permitting	Brad Kerzman Material Coordinator D1	Jordan Maslonik	Email
Riverdale Township	6/16/2023	Project Update and Permitting	Linda Visto	Charity Ruley	Email
North Dakota Department of Transportation	6/21/2023	Project Update and Permitting	Troy Gilbertson Maintenance Coordinator D8	Jordan Maslonik	Phone
North Dakota Department of Transportation	6/21/2023	Project Update and Permitting	Brad Kerzman Materials Coordinator - NDDOT BISMARCK DISTRICT	Jordan Maslonik	Email
North Dakota Department of Transportation	6/22/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator Valley City NDDOT	Jordan Maslonik	Email
McIntosh County	6/22/2023	EMS and CO2 Pipeline Safety	Victor Fischer, Chief Deputy, McIntosh County Sheriff's Department	Judah Lopez	Phone
Dickey County	6/22/2023	EMS and CO2 Pipeline Safety	Charlie Russell, Director of Emergency Management, Dickey County	Judah Lopez	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	6/23/2023	Project Update and Permitting	Troy Gilbertson Maintenance Coordinator D8	Jordan Maslonik	Phone
North Dakota Department of Transportation	6/23/2023	Project Update and Permitting	Monte Dockter Utilities Engineer	Jordan Maslonik	Phone
North Dakota Department of Transportation	6/23/2023	Project Update and Permitting	Kirk Hoff Design Engineer	Jordan Maslonik	Phone
Emmons County	6/23/2023	EMS and CO2 Pipeline Safety	Gary Sanders, Sheriff, Emmons County	Judah Lopez	Email
McIntosh County	6/26/2023	EMS and CO2 Pipeline Safety	Steven Delzer, Sheriff/911 Coordinator, McIntosh County	Judah Lopez	Email
North Dakota Department of Transportation	6/29/2023	Project Update and Permitting	Troy Gilbertson Maintenance Coordinator	Jordan Maslonik	Phone
Barney Township	6/29/2023	Project Update and Permitting	Dan Pellman, Supervisor	Charity Ruley	Phone
City of Fargo	6/30/2023	Project Update and Permitting	Jim Hausauer, Director, Water Reclamation Utility	Brian Stouffer	Email
City of Fargo	7/3/2023	Project Update and Permitting	Mark Miller, Utility Superintendent	Brian Stouffer	Email
North Dakota Department of Transportation	7/7/2023	Project Update and Permitting	Kirk Hoff Design Engineer	Jordan Maslonik	Phone
North Dakota Department of Transportation	7/7/2023	Project Update and Permitting	Wayde Swenson Operations Director	Jordan Maslonik	Phone
Barney Township	7/17/2023	Project Update and Permitting	Dan Pellman	Charity Ruley	Mail

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	7/21/2023	Project Update and Permitting	Wayde Swenson Operations Director	Jordan Maslonik	Email
North Dakota Department of Transportation	7/21/2023	Project Update and Permitting	Wayde Swenson Office of Operations Director	Jordan Maslonik	Email
North Dakota Department of Transportation	7/25/2023	Project Update and Permitting	Brad Kerzman Materials Coordinator - NDDOT BISMARCK DISTRICT	Jordan Maslonik	Phone
North Dakota Department of Transportation	7/25/2023	Project Update and Permitting	Jay Praska, Valley City District (D2) Engineer	Jordan Maslonik	Email
North Dakota Department of Transportation	8/3/2023	Project Update and Permitting	Heather Brew Transportation Construction Administrator D5	Jordan Maslonik	Email
Red River Valley and Western Railroad	8/3/2023	Project Update and Permitting	Jill Kvidera	Jamie Lester	Phone
Dickey County	8/3/2023	EMS and CO2 Pipeline Safety	Charlie Russell, Emergency Management Director, Dickey County	Judah Lopez	Email
North Dakota Department of Transportation	8/4/2023	Project Update and Permitting	Kathy Beach Maintenance Coordinator D2	Jordan Maslonik	Email
North Dakota Department of Transportation	8/9/2023	Project Update and Permitting	Jay Praska. D2 Valley City District Engineer	Jordan Maslonik	Email
ND EMS Foundation	8/11/2023	EMS and CO2 Pipeline Safety	Mark Haugen, President ND EMS Foundation	Dave Nehring	In Person Meeting

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
Richland County Commission	8/15/2023	EMS and CO2 Pipeline Safety	Terry Goerger, Perry Miller - County Commissioners	Charlie Adams	In Person Meeting
North Dakota Department of Transportation	8/23/2023	Project Update and Permitting	Jay Praska, Valley City District Engineer	Jordan Maslonik	Email
North Dakota Department of Transportation	8/31/2023	Project Update and Permitting	Brad Kerzman Material Coordinator	Jordan Maslonik	Email
North Dakota Department of Transportation	8/31/2023	Project Update and Permitting	Heather Brew Transportation Construction Administrator	Jordan Maslonik	Email
North Dakota Department of Transportation	8/31/2023	Project Update and Permitting	Brad Kerzman Materials Coordinator - NDDOT BISMARCK DISTRICT	Jordan Maslonik	Email
North Dakota Department of Transportation	9/1/2023	Project Update and Permitting	Troy Gilbertson Maintenance Coordinator D8	Jordan Maslonik	Email
Van Meter Township	9/6/2023	Project Update and Permitting	Trevor Hokana	Charity Ruley	Phone
Port Emma Township	9/6/2023	Project Update and Permitting	Marty Visto	Charity Ruley	Email
Sargent Township	9/6/2023	Project Update and Permitting	Lujuana Hayen	Charity Ruley	Phone
North Dakota Department of Transportation	9/7/2023	Project Update and Permitting	Heather Brew Transportation Construction Administrator D5	Jordan Maslonik	Email
North Dakota Department of Transportation	9/15/2023	Project Update and Permitting	Heather Brew Transportation Construction Administrator D5	Jordan Maslonik	Email

Summary of Summit's Agency Consultations Since the Filing of the October 17, 2022 Application.					
Agency	**Date**	**Subject**	**Agency Contact (Primary)**	**Summit Contact/Sub Contractor Contact (Primary)**	**Method of Contact**
North Dakota Department of Transportation	9/18/2023	Project Update and Permitting	Heather Brew Transportation Construction Administrator D5	Jordan Maslonik	Email

Updated Table 6.2: Agency Notifications		
AGENCY	**FORM OF CONTACT**	**DATE OF CONTACT**
Aeronautics Commission	Letter	October 18, 2022; January 29, 2024
Attorney General	Letter	October 18, 2022; January 29, 2024
Department of Agriculture	Letter	October 18, 2022; January 29, 2024
Department of Career and Technical Education	Letter	October 18, 2022; January 29, 2024
Department of Commerce	Letter	October 18, 2022; January 29, 2024
Department of Environmental Quality	Meeting and Letter	October 18, 2022; June 8, 2023/ January 29, 2024
Department of Human Services	Letter	October 18, 2022; January 29, 2024
Department of Labor and Human Rights	Letter	October 18, 2022; January 29, 2024
Department of Transportation	Letter	October 18, 2022; January 29, 2024
Department of Trust Lands	Letter	October 18, 2022; January 29, 2024
Energy Infrastructure and Impact Office	Letter	October 18, 2022; January 29, 2024
Federal Aviation Administration	Letter	October 18, 2022; January 29, 2024
Federal Bureau of Land Management	Letter	October 18, 2022; January 29, 2024
North Dakota Game and Fish Department	Meeting and Letter	October 18, 2022; June 8, 2023; January 29, 2024
Governor's Office	Letter	October 18, 2022; January 29, 2024
Grand Forks Air Force Base	Letter	October 18, 2022; January 29, 2024
Indian Affairs Commission	Letter	October 18, 2022; January 29, 2024
Industrial Commission	Letter	October 18, 2022; January 29, 2024
Job Service North Dakota	Letter	October 18, 2022; January 29, 2024
Military Aviation and Installation Assurance Siting Clearinghouse	Letter	October 18, 2022; January 29, 2024
Minot Air Force Base	Letter	October 18, 2022; January 29, 2024
Natural Resources Conservation Service	Letter	October 18, 2022; January 29, 2024
North Dakota Forest Service	Letter	October 18, 2022; January 29, 2024
North Dakota Geological Survey	Meeting	October 18, 2022; January 09, 2024
North Dakota Pipeline Authority	Letter	October 18, 2022; January 29, 2024
North Dakota Transmission Authority	Letter	October 18, 2022; January 29, 2024
Parks and Recreation Department	Letter	October 18, 2022; January 29, 2024
State Department of Health	Letter	October 18, 2022; January 29, 2024

Updated Table 6.2: Agency Notifications		
AGENCY	**FORM OF CONTACT**	**DATE OF CONTACT**
State Historical Society of North Dakota	Meeting	December 5, 2023
Department of Water Resources (formerly State Water Commission)	Meeting and Letter	October 18, 2022; June 8, 2023; January 29, 2024
The county commission of the county or counties where the Project is located	Meetings	Various Dates in 2023 and 2024
Twentieth Air Force Ninety-first Missile Wing	Letter	October 18, 2022; January 29, 2024
U.S. Army Corps of Engineers	Email	January 16, 2024
U.S. Department of Defense	Letter	October 18, 2022; January 29, 2024
U.S. Fish and Wildlife Service	Phone Call	September 27, 2023