



Class I Cultural Resources Literature Review

Line 12 Pole Replacement Project

Oliver, Burleigh, Kidder, and Stutsman Counties, ND

Prepared for
Minnkota Power Cooperative, Inc.

January 2024

Class I Cultural Resources Literature Review

January 2024

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Certification

Principal Investigator



Veronica Parsell
RPA #: 3532690

January 17, 2024

Date

Executive Summary

At the request of Minnkota Power Cooperative, Inc. (Minnkota), Barr Engineering Co. (Barr) conducted a Class I cultural resources literature review (Class I) in support of a siting exclusion certificate from the North Dakota Public Service Commission (PSC) for thirteen (13) structure replacements on Minnkota's existing Line 12 345 kilovolt (kV) transmission line in Oliver, Burleigh, Kidder, and Stutsman Counties, North Dakota. Most of the structures will be placed within or directly adjacent to the existing structure footprint (one structure replacement will, however, be relocated approximately 80 feet west of the existing structure). Minnkota is seeking funding from the U.S. Department of Agriculture for these structure replacements, and as a result, this undertaking is subject to Section 106 of the National Historic Preservation Act (NHPA).

Since ground disturbance would occur on and around the new structures, Barr conducted a Class I cultural resources literature review for the proposed area of potential effects (APE) for each structure, defined as the easement distance of 150 feet around the structure location, and within a 1-mile (1-mi) study area for each APE. The proposed replacement structures are located in Townships 141N and 142N on the Nelson, Wilton, Regan, Harriet Lake, Kunkel, Goldwin, Pingree, Buchanan and Fried, North Dakota 7.5' U.S. Geological Survey (USGS) topographical quadrangles.

The data provided by the North Dakota State Historic Preservation Office (SHPO) indicate that 24 previously recorded cultural resources are located within the 1-mi study areas of the 13 proposed structure replacements. These resources include five historic architectural resources, four historical sites, and 15 archaeological sites, as summarized in Table 1, below. None of these resources intersect with, or are directly adjacent to, the proposed APEs. There are no National Historic Landmarks or National Register of Historic Places listed properties within the 1-mi study areas.

Table 1. Summary of Previously Identified Cultural Resources

| Structure Number | Count of Historic Architectural Resources within 1 Mile | Count of Archaeological Resources within 1 Mile | Count of Historical Resources within 1 Mile | Count of Resources within APE |
|-------------------------|--|--|--|--------------------------------------|
| 012A0008 | 1 | 12 | 0 | 0 |
| 012C0107 | 0 | 2 | 2 | 0 |
| 012C0132 | 1 | 1 | 0 | 0 |
| 012C0212 | 1 | 0 | 0 | 0 |
| 12C0290 | 0 | 0 | 0 | 0 |
| 12C0339 | 0 | 0 | 0 | 0 |
| 12C0340 | 0 | 0 | 0 | 0 |
| 12C0452 | 0 | 0 | 1 | 0 |
| 12C0600 | 0 | 0 | 0 | 0 |
| 12C0618 | 0 | 0 | 0 | 0 |
| 12E0684 | 0 | 0 | 0 | 0 |
| 12E0699 | 2 | 0 | 1 | 0 |
| 12G0737 | 0 | 0 | 0 | 0 |
| TOTAL | 5 | 15 | 4 | 0 |

Thirty-one cultural resource surveys have been recorded within the study areas, one of which includes the APE for the proposed replacement structure #012G0737.

A review of historic maps and aerial photographs of the Project Areas indicated the presence of historic architecture within the 1-mi study area of structure #012C0212 (site 32BLX332). The site of the historic Nelson Post Office (site 32KDX33) is depicted in the 1912 map of the structure #12C0452 study area. The historic town of Buchanan is depicted in the study area of structure #12E0699 and historic Wogansport is visible in the study area for structure #012C0107. Historic maps and aerials of the remaining replacement structures revealed no potential cultural resources within the Project Areas, and that the study areas are largely agricultural in character.

Based on the results of the Class I literature review and considering that the proposed Line 12 replacement structures would be constructed in previously disturbed areas along Minnkota’s existing right-of-way (ROW), Barr recommends a finding of No Historic Properties Affected, and no additional work related to cultural resources is recommended for the proposed project to proceed as planned.

1 Introduction

Barr Engineering Co. (Barr) conducted a Class I cultural resources literature review (Class I) at the request of Minnkota Power Cooperative, Inc. (Minnkota) to satisfy the requirements for a siting exclusion certificate from the North Dakota Public Service Commission (PSC) for thirteen (13) structure replacements on Minnkota’s existing Line 12 345 kilovolt (kV) transmission line in Oliver, Burleigh, Kidder, and Stutsman Counties, North Dakota.

Except for one replacement structure (#012C0168), the new structures consist of replacement “in-kind”, whereby each structure will be placed either within or directly adjacent to the existing structure footprint (Appendix A). However, structure #012C0618 will be relocated approximately 80 feet west of the existing structure (Appendix A-9) and will require preparation of an environmental report under 7 CFR 1970.54. Minnkota is seeking funding from the U.S. Department of Agriculture, Rural Development-Rural Utility Service (USDA-RUS) for the replacement of all thirteen structures. Therefore, the proposed construction is considered an undertaking subject to Section 106 of the National Historic Preservation Act (NHPA).

The proposed replacement structures are located in Townships 141N and 142N on the Nelson, Wilton, Regan, Harriet Lake, Kunkel, Goldwin, Pingree, Buchanan and Fried, North Dakota 7.5’ U.S. Geological Survey (USGS) topographical quadrangles (Table 2, Figures 1-1 to 1-5).

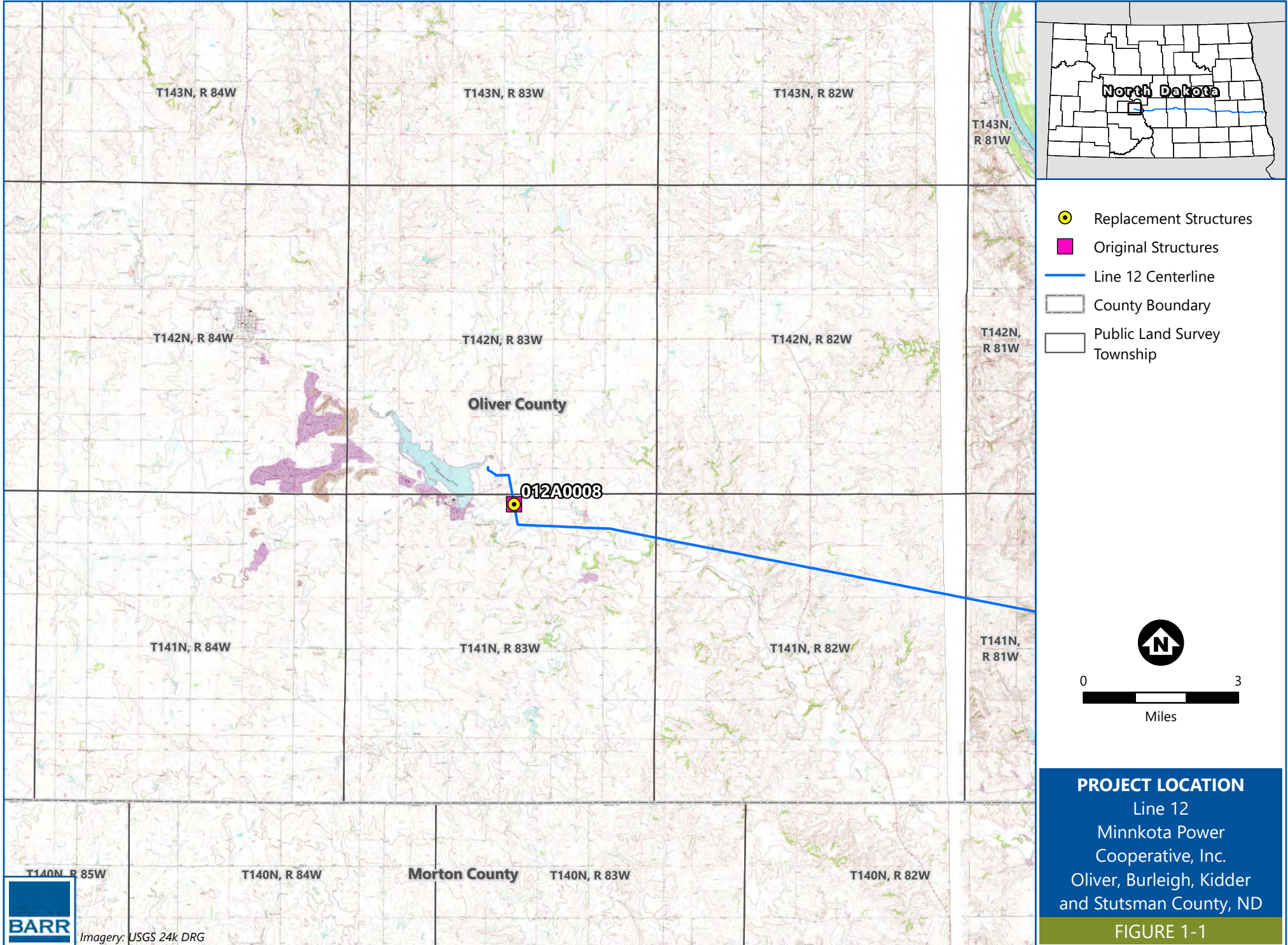
Table 2. Summary of Proposed Replacement Structure Locations

| Replacement Structure | County | Township, Range, Section | USGS 7.5 Quadrangle |
|-----------------------|----------|--------------------------|---------------------|
| 012A0008 | Oliver | T141N, R83W, S03 | Nelson Lake |
| 012C0107 | Burleigh | T141N, R80W, S18 | Wilton SE |
| 012C0132 | Burleigh | T141N, R80W, S14 | Wilton SE |
| 012C0212 | Burleigh | T141N, R78W, S01 | Regan SE |
| 012C0290 | Burleigh | T141N, R76W, S01 | Harriet Lake |
| 012C0339 | Kidder | T141N, R74W, S05 | Harriet Lake SE |
| 012C0340 | Kidder | T141N, R74W, S04 | Harriet Lake SE |
| 012C0452 | Kidder | T141N, R71W, S04 | Kunkel Lake |
| 012C0600 | Stutsman | T141N, R67W, S04 | Goldwin SW |
| 012C0618 | Stutsman | T141N, R67W, S02 | Goldwin SE |
| 012E0684 | Stutsman | T141N, R65W, S03 | Pingree SW |
| 012E0699 | Stutsman | T141N, R65W, S01 | Buchanan |
| 012G0737 | Stutsman | T141N, R63W, S07 | Fried |

For the purposes of this report, the terms “Project Area” and “Project APE” are synonymous and refer to the 150-foot radius surrounding each proposed structure replacement location.

This report presents the results of the background research in Section 2.0. Section 3.0 provides the conclusions and recommendations. The references cited in this report appear in Section 4.0. Appendix A includes Project Area locations, Appendix B includes North Dakota State Historic Preservation Office (SHPO) maps of cultural resources within the 1-mile study areas, and Appendix C provides manuscript references for previously recorded surveys in the study areas.

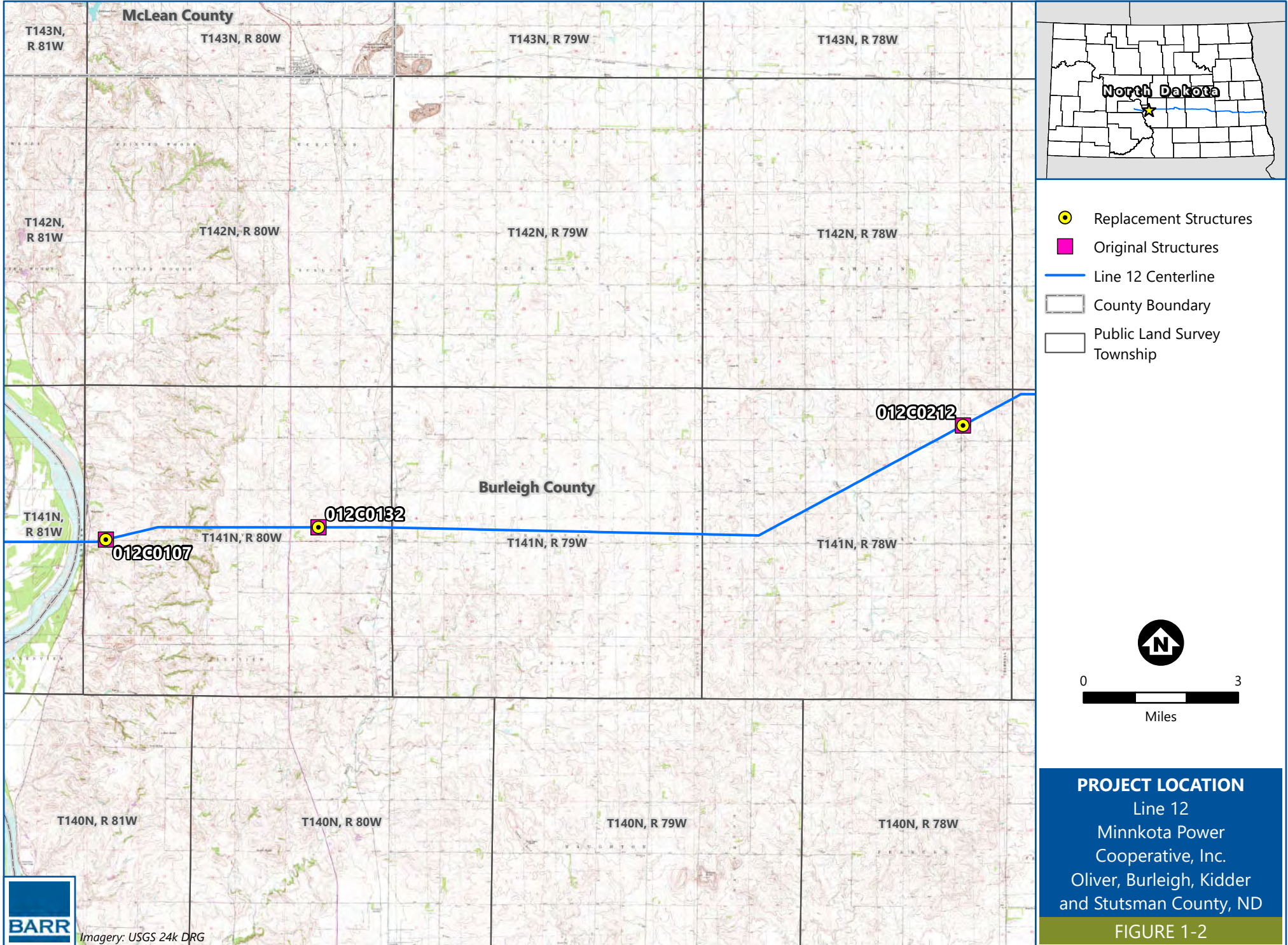
This report was prepared by Senior Cultural Resources Specialist Ms. Veronica Parsell and Cultural Resources Specialist Ms. Allison Hawley. Ms. Megan Niess prepared the report graphics.

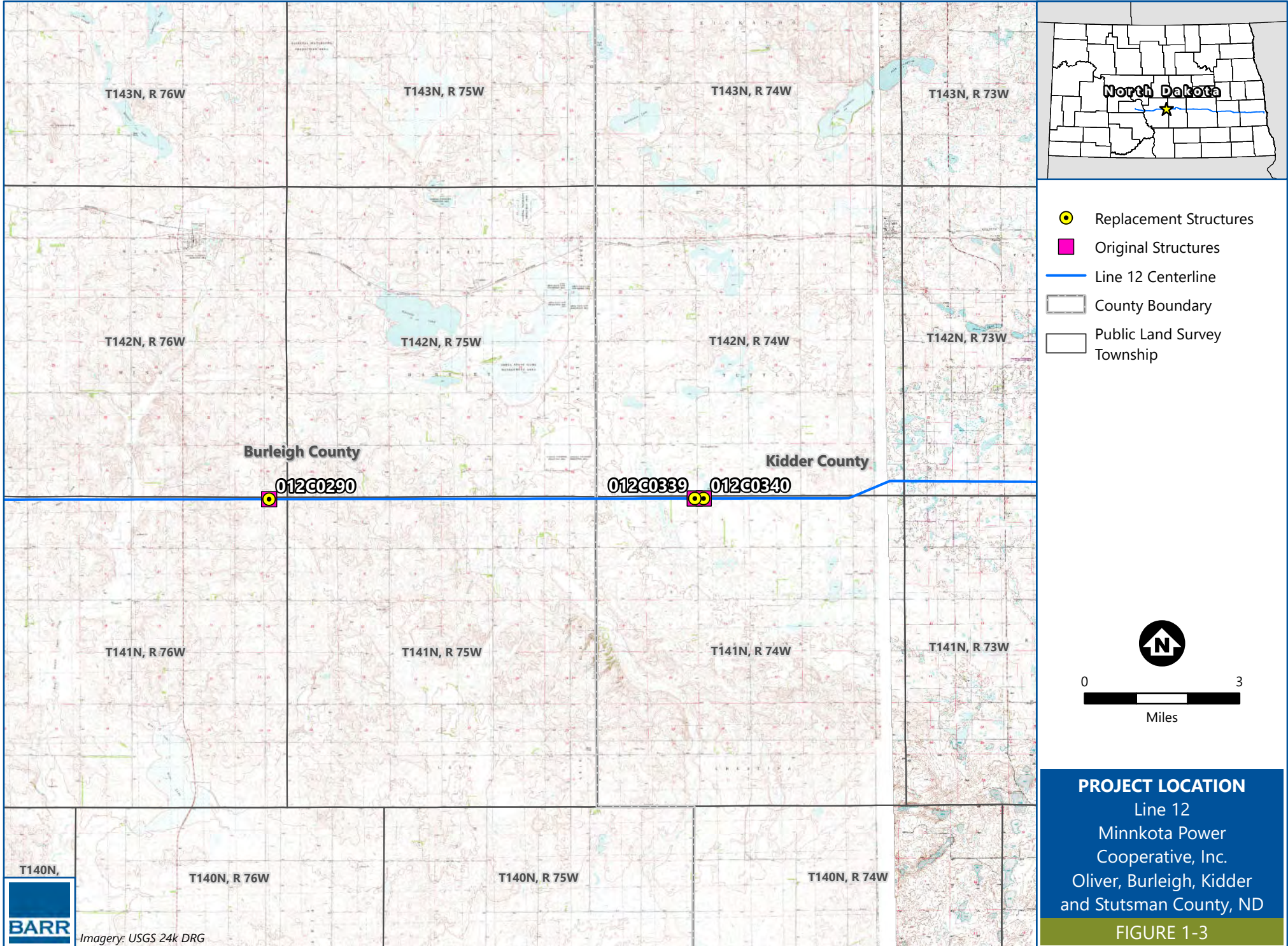


Imagery: USGS 24k DRG

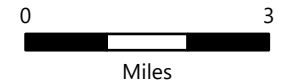
PROJECT LOCATION
Line 12
Minnkota Power
Cooperative, Inc.
Oliver, Burleigh, Kidder
and Stutsman County, ND

FIGURE 1-1





- Replacement Structures
- Original Structures
- Line 12 Centerline
- - - County Boundary
- ▭ Public Land Survey Township

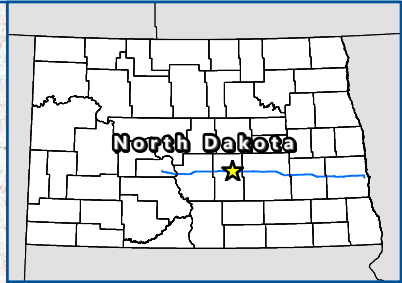
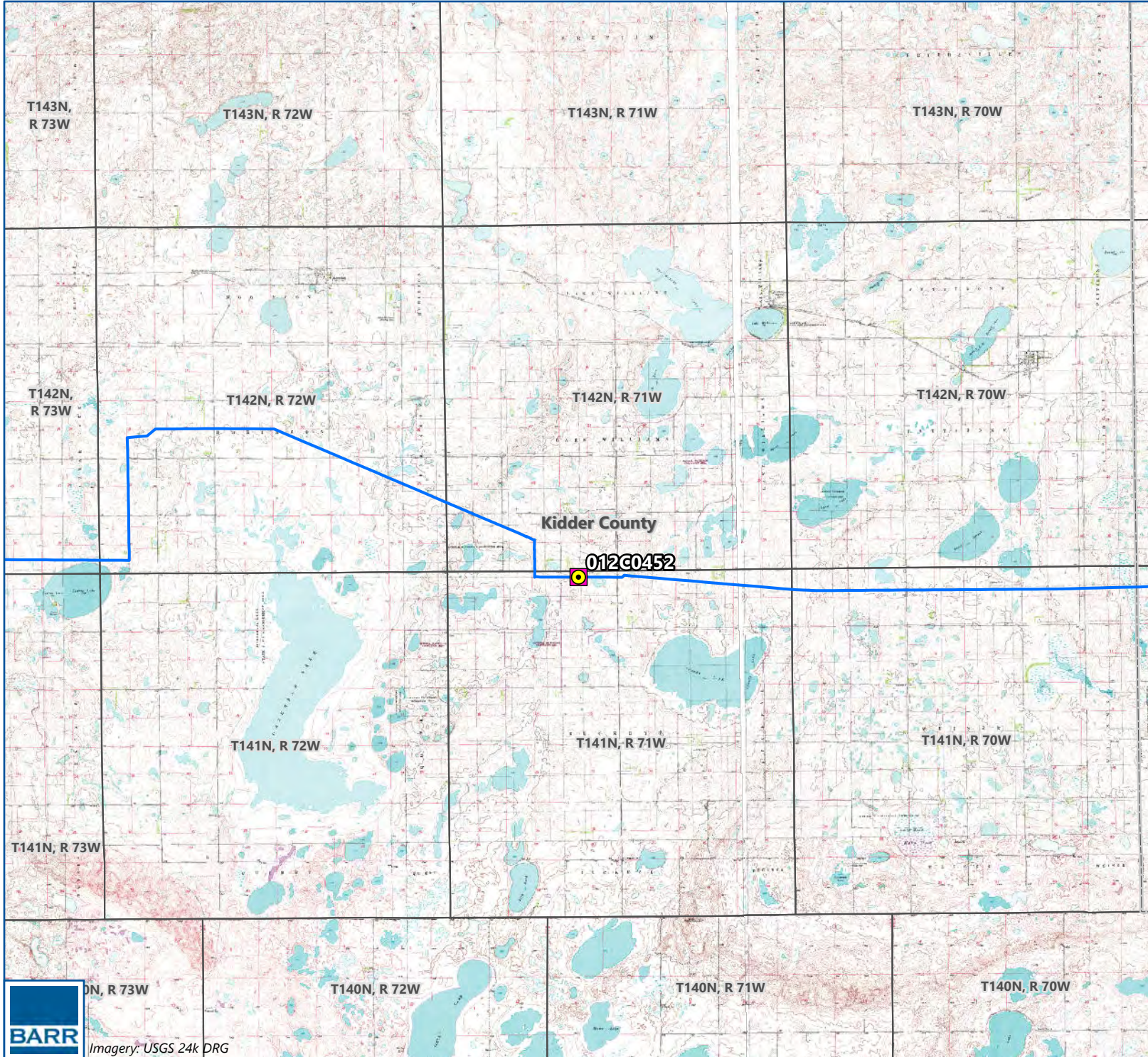


PROJECT LOCATION
Line 12
Minnkota Power
Cooperative, Inc.
Oliver, Burleigh, Kidder
and Stutsman County, ND

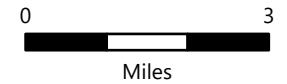
FIGURE 1-3



Imagery: USGS 24k DRG

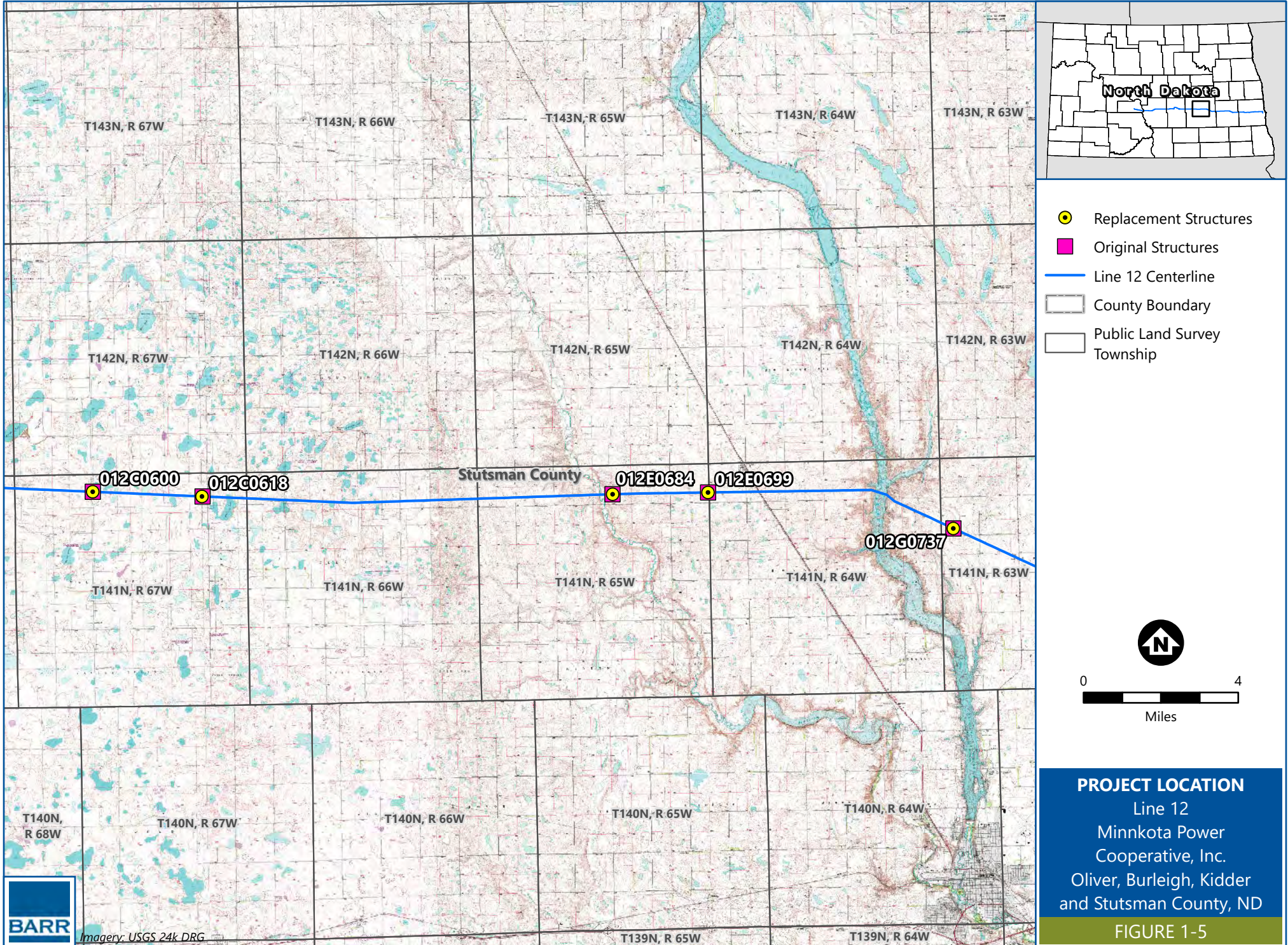


- Replacement Structures
- Original Structures
- Line 12 Centerline
- County Boundary
- Public Land Survey Township



PROJECT LOCATION
Line 12
Minnkota Power
Cooperative, Inc.
Oliver, Burleigh, Kidder
and Stutsman County, ND

FIGURE 1-4



2 Background Research

The objective of the literature review is to identify any cultural resources present within the Project Areas, as well as assess the effects of the Project on these resources, if identified.

Barr's cultural resources review focused on identifying archaeological and historic architectural resources. Archaeological resources are defined as any site location that contains material remains of past human life or activities, or other places and/or items that possess cultural importance to individuals or a group. Historic architectural resources include "buildings, bridges, tunnels, statues, and other structures that create tangible links to the American past, whether in relation to historical events and people, traditional ways of life, architectural design, or methods of construction"¹.

Once identified through documentary research and/or fieldwork, archaeological sites and historic architectural resources are evaluated for National Register of Historic Places (NRHP) eligibility based on the following criteria.

"The quality of significance in American history, architecture, archaeology, engineering and culture is present in the districts, sites, buildings, structures and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- a. *That are associated with the events that have made a significant contribution to the broad patterns of our history; or*
- b. *That are associated with the lives of persons significant in our past; or*
- c. *That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or*
- d. *That have yielded or may be likely to yield, information important in prehistory or history" (36 CFR 60.4)."*

The purpose of this section is to provide a basic context through which to evaluate the results of Barr's research. This section briefly outlines the results of the file search and background research completed for the Project.

2.1 Literature Review

The literature review was directed toward identifying previously recorded archaeological sites, historic structures, and other cultural resources. Barr completed a records search at the North Dakota SHPO on November 27, 2023, to identify previously recorded archaeological sites and historic structures located within 1-mi of the Project Areas.

¹ <https://www.nps.gov/orgs/1027/architecture.htm>

For the literature review, Barr consulted the following resources:

- National Historic Landmark list;
- NRHP list;
- Archaeological Site Files;
- Historic Architectural Inventory;
- Historic maps and aerial photographs.

Table 3 provides a summary of the previously recorded cultural resources and surveys within the 1-mi study areas for each of the proposed Project Areas. Additional information specific to each replacement structure is outlined below.

Table 3. Cultural Resources in 1-Mile Study Area

| Twp/Rng/Sec | SITS# | Type | Recorder/Year | NRHP Status | MS # | Surveys in Section (MS #) |
|-----------------|--------------------------------|---|--------------------------------------|--------------------------|-------|---------------------------|
| 012A0008 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | 15347/ 11982 |
| Redacted | 32OLX111 | Archaeological-Isolated Find: Quartz Core | Banks 1999 | Unevaluated | 7490 | 7490/ 017264 |
| | 32OL991 | Archaeological-Cultural Material Scatter | Troendle 2022 | Unevaluated | | |
| Redacted | 32OL591 | Archaeological-Stone Circle/Habitation Site | Holven 2010 | Unevaluated | 11982 | 14397/ 11982 |
| | 32OL1008 | Archaeological-Late Prehistoric Cultural Material Scatter | Morrison, Stine and Christensen 2023 | Unevaluated | | |
| | 32OLX504 | Archaeological-Isolated Find: KRF Flake | Morrison, Stine and Christensen 2023 | Unevaluated | | |
| Redacted | 32OL560 | Historic Architecture-Residence, Barn and Cabin (1822) | Boughton 2008 | Recommended Not Eligible | 10446 | 11982/ 10446 |
| Redacted | No Cultural Resources Recorded | | | | | 11982 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |

| Twp/Rng/ Sec | SITS# | Type | Recorder/ Year | NRHP Status | MS # | Surveys in Section (MS #) |
|-------------------------|--------------------------------|--|--|-----------------------------|-------------|--|
| Redacted | 32OL960 | Archaeological- Stone Effigy | Pace 2022 | Unevaluated | 19701 | 19701/ 9675/ 7379 |
| | 32OL961 | Archaeological- Stone Effigy | Pace 2022 | Unevaluated | 19701 | |
| | 32OL1002 | Archaeological- Stone Cairns and Stone Circles | Larsen 2023 | Unevaluated | 7379 | |
| | 32OLX441 | Archaeological- Isolated Find: Chalcedony Biface Fragment | Pace 2022 | Recommended Not Eligible | 19701 | |
| | 32OLX442 | Archaeological- Isolated Find: KRF Biface Fragment | Pace 2022 | Recommended Not Eligible | 19701 | |
| Redacted | 32OLX503 | Archaeological- Isolated Find: KRF Flake | Stine, Kulevsky and Christensen 2023 | Recommended Not Eligible | | 10296/ 15480/ 13590/ 13678/ 12924/ 18908/ 9675/ 05143/ 7379/ 9766/ 12958 |
| | 32OLX253 | Archaeological- Isolated Find: KRF Flake | Porwoll 2011 | Recommended Not Eligible | 12958 | |
| 012C0107 | | | | | | |
| Redacted | 32BL45 | Historic- Wogansport (series of linear ditches circa approx. 1886) | Dill 1984 | Unevaluated | 11170 | 11170 |
| | 32BLX103 | Historic- Wogansport Townsite (circa 1885-1916) | SHSND 2021 | Unevaluated | | |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | 32BLX175 | Archaeological- Earthlodge Village | Metcalf 2001/Volk 1980 | Unevaluated | 8045 | 11170/ 6636/ 8045 |

| Twp/Rng/ Sec | SITS# | Type | Recorder/ Year | NRHP Status | MS # | Surveys in Section (MS #) |
|-------------------------|--------------------------------|--|-----------------------------|-----------------------------|-------------|--|
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | 32OLX002 | Archaeological- Earthlodge Village | Bohner 2017/Volk 1980 | Unevaluated | | 3003 |
| 012C0132 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | 10293/ 6636 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | 32BL798 | Historic Architecture- Transmission Line (1952) | Bruckner 2022 | Recommended Not Eligible | | 10293 |
| Redacted | No Cultural Resources Recorded | | | | | 10293/ 6636 |
| Redacted | 32BLX186 | Archaeological- Isolated Find: KRF Flake | Larson and Penny 1996 | Not Eligible | 10293 | 10293 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 012C0212 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | 15720/ 9715 |
| Redacted | No Cultural Resources Recorded | | | | | 9715 |
| Redacted | No Cultural Resources Recorded | | | | | 9715 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | 32BLX332 | Historic Architecture- Farmstead | Holven 2012 | Recommended Not Eligible | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 12C0290 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |

| Twp/Rng/ Sec | SITS# | Type | Recorder/ Year | NRHP Status | MS # | Surveys in Section (MS #) |
|-------------------------|--------------------------------|-------------|---------------------------|--------------------|-------------|--|
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | 6876 |
| 12C0339 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
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| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 12C0340 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |

| Twp/Rng/ Sec | SITS# | Type | Recorder/ Year | NRHP Status | MS # | Surveys in Section (MS #) |
|-------------------------|--------------------------------|--|---------------------------|--------------------|-------------|--|
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 12C0452 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | 32KDX33 | Historic-Nelson Post Office (1904) | SHSND 2023 | Unevaluated | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 12C0600 | | | | | | |

| Twp/Rng/ Sec | SITS# | Type | Recorder/ Year | NRHP Status | MS # | Surveys in Section (MS #) |
|-------------------------|--------------------------------|-------------|---------------------------|--------------------|-------------|--|
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | 12950 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 12C0618 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | 7335 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
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| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 12E0684 | | | | | | |

| Twp/Rng/ Sec | SITS# | Type | Recorder/ Year | NRHP Status | MS # | Surveys in Section (MS #) |
|-----------------|--------------------------------|--|-------------------|-------------|------|---------------------------------|
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | 12950 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 12E0699 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | 12950 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | 32SN384 | Historic Architecture- Buchanan Congregational Church (1903) | Miller 1999 | Unevaluated | | 3273/ 12950 |
| | 32SN141 | Historic Architecture- Buchanan | Perm 1988 | Unevaluated | | |

| Twp/Rng/ Sec | SITS# | Type | Recorder/ Year | NRHP Status | MS # | Surveys in Section (MS #) |
|-----------------|--------------------------------|--|-------------------|-------------|------|---------------------------------|
| | | Bonanza Farm (approx. 1900) | | | | |
| | 32SNX48 | Historic- Buchanan Townsite (1879) | SHSND 2023 | Unevaluated | | |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| 12G0737 | | | | | | |
| Redacted | No Cultural Resources Recorded | | | | | 9333 (Project Area) |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | 12950 |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |
| Redacted | No Cultural Resources Recorded | | | | | No Recorded Surveys |

2.1.1 Replacement Structure #012A0008

Thirteen cultural resources were identified within the 1-mi study area for replacement structure #012A0008. These include archaeological sites 32OLX111 (an isolated lithic core of unknown period), 32OL991 (a lithic scatter consisting of 26 artifacts of unknown period), 32OL591 (a stone circle and possible habitation site of unknown period), 32OL1008 (a late prehistoric lithic scatter), 32OLX504 (an isolated lithic flake), 32OL560 (a historic farm residence and outbuildings, circa. 1822), 32OL960 (a stone effigy of unknown period), 32OL961 (a stone effigy of unknown period), 32OL1002 (four stone cairns and two stone circles of unknown period), 32OLX441 (an isolated lithic biface fragment of unknown period), 32OLX503 (an isolated lithic flake of unknown period) and 32OLX253 (and isolated lithic flake of unknown

period). One historic architectural resource (32OL560) is also located within the 1-mi study area, consisting of a circa 1822 barn and cabin. None of these resources are within or adjacent to the Project Area (Appendix B, Figure 1).

Sixteen surveys have been recorded within the study area, mostly north and west of the Project Area. These surveys, none of which included the proposed Project Area, were conducted between 1999 and 2022 (Appendix B, Figure 1; Appendix C).

The 1957 and 1971 Oliver County aerials of the Project Area depicts Nelson Lake occupying its current footprint. The Project Area and vicinity are characterized by agricultural fields. The 1972 topographic map also shows Nelson Lake, and the Milton R. Young Powerplant substation (North Dakota Historical Map and Aerial Photography Dissemination Service).

2.1.2 Replacement Structure #012C0107






Four cultural resources were identified within the 1-mi study area for replacement structure #012C0107, none of which intersect the Project Area (Appendix B, Figure 2). These include sites 32BL45, 32BLX103, 32BLX175, and 32OLX002.

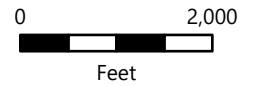
Site 32BL45 (historic Wogansport) consists of a series of linear ditches and site 32BLX103 is documented as Wogansport Townsite. The Town of Wogansport is depicted in an 1894 historic map (Figure 2-1), but less apparent in a series of 1938 aerial photographs (Figure 2-2).

Sites 32BLX175 and 32OLX002 are Earthlodge villages identified by Lewis and Clark in 1922. Metcalf (2001, MS#8045) noted that these sites are partially visible as irregularity of the ground surface on the 1938 aerial photograph; however, Barr's review of the 1938 aerial did not clearly indicate this disturbance.

Five previous surveys were identified within the study area between 1980 and 2009, none of which intersect the Project Area (Appendix B, Figure 2; Appendix C).

Redacted

-  Replacement Structures
-  Line 12 Centerline
-  Cultural Site
-  County Boundary
-  Public Land Survey Section








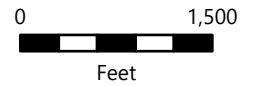
**WOGANSPORT 1894
HISTORIC MAP**

Line 12
Structure 012C0107
Minnkota Power
Cooperative, Inc.
Burleigh County, ND

FIGURE 2-1

Redacted

-  Replacement Structures
-  Line 12 Centerline
-  Cultural Site
-  County Boundary
-  Public Land Survey Section



**WOGANSPORT 1938
AERIAL IMAGERY**
Line 12
Structure 012C0107
Minnkota Power
Cooperative, Inc.
Burleigh County, ND

FIGURE 2-2

2.1.3 Replacement Structure #012C0132

Two cultural resources were identified within the 1-mi study area for replacement structure #012C0132. These include sites 32BL798 (historic architecture, transmission line circa 1952) and 32BLX186 (an isolated lithic flake), neither of which intersect the Project Area (Appendix B, Figure 3).

Two previous surveys were identified within the study area between 1996 and 2007, neither of which intersect the Project Area (Appendix C).






A review of the Burleigh County 1938 and 1957 aerial imagery did not reveal any potential cultural resources or notable features within the Project Area.

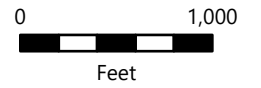
2.1.4 Replacement Structure #012C0212

One cultural resource was identified within the 1-mi study area for replacement structure #012C0212; site 32BLX332 (historic farmstead with 16 associated architectural features constructed between 1900 and 1960). This site is visible in the 1938 aerial imagery (Figure 2-3) and many of these structures are still intact. Site 32BLX332 does not intersect with the proposed Project Area (Appendix B, Figure 4).

Two previous surveys were identified within the study area between 2006 and 2014, neither of which intersect the Project Area (Appendix C).

Redacted

-  Replacement Structures
-  Line 12 Centerline
-  Cultural Site
-  County Boundary
-  Public Land Survey Section



1938
AERIAL IMAGERY
Line 12
Structure 012C0212
Minnkota Power
Cooperative, Inc.
Burleigh County, ND

FIGURE 2-3

2.1.5 Replacement Structure #012C0290

No cultural resources were identified within the 1-mi study area for replacement structure #012C0290. One previous survey was conducted in 1996 within the study area, but it did not intersect the Project Area (Appendix B, Figure 5; Appendix C).

A review of Burleigh County 1938 and 1957 aerial photographs did not reveal any potential cultural resources or notable features within the Project Area.

2.1.6 Replacement Structure #012C0339

No cultural resources or previous surveys were identified within the 1-mi study area for replacement structure #012C0339 (Appendix B, Figure 6).

A review of the 1912 Kidder County Atlas and the Kidder County 1938 aerial photograph and did not reveal any potential cultural resources or notable features within the Project Area.

2.1.7 Replacement Structure #012C0340

No cultural resources or previous surveys were identified within the 1-mi study area for replacement structure #012C0340 (Appendix B, Figure 7).

A review of the 1912 Kidder County Atlas and the Kidder County 1938 aerial photograph and did not reveal any potential cultural resources or notable features within the Project Area.

2.1.8 Replacement Structure #012C0452

One cultural resource was identified within the 1-mi study area for replacement structure #012C0452, consisting of site 32KDX33 (historic Nelson post office, circa 1904) (Appendix B, Figure 8). This site is visible on the 1912 Kidder County Atlas (Figure 2-4) and does not intersect with the proposed Project area.




No previous surveys were identified within the 1-mi study area.

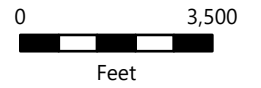
2.1.9 Replacement Structure #012C0600

No cultural resources were identified within the 1-mi study area for replacement structure #012C0600 (Appendix B, Figure 9). One previous survey was conducted in 2011 within the 1-mi study area, but it did not intersect with the Project Area (Appendix C).

A review of the Stutsman County 1957 aerial photograph did not reveal any potential cultural resources or notable features within the Project Area.

Redacted

-  Replacement Structures
-  Line 12 Centerline
-  County Boundary



1912 ATLAS MAP
Line 12
Structure 012C0452
Minnkota Power
Cooperative, Inc.
Kidder County, ND

FIGURE 2-4

2.1.10 Replacement Structure #012C0618

No cultural resources were identified within the 1-mi study area for replacement structure #012C0618 (Appendix B, Figure 10). One previous survey was conducted in 1999 within the 1-mi study area, but it did not intersect with the Project Area (Appendix C).

A review of the Stutsman County 1957 aerial photograph did not reveal any cultural resources or notable features within the Project Area.

2.1.11 Replacement Structure #012E0684

No cultural resources were identified within the 1-mi study area for replacement structure #012E0684 (Appendix B, Figure 11). One previous survey was conducted in 2011 within the 1-mi study area, but it did not intersect with the Project area (Appendix C).

A review of the Stutsman County 1957 aerial photograph did not reveal any potential cultural resources or notable features within the Project Area.

2.1.12 Replacement Structure #012E0699

Three cultural resources were identified within the 1-mi study area for replacement structure #012E0699 (Appendix B, Figure 12). These include sites 32SN384 (historic architecture Buchanan Congregational Church, circa 1903), 32SN141 (historic architecture Bonanza Farm structures, circa 1900), and 32SNX48 (historic Buchanan Townsite). The town of Buchanan (site #32SNX48) is depicted on the 1900 historic Stutsman County map (Figure 2-5) and is also visible on the 1957 aerial imagery (Figure 2-6).

Two previous surveys were recorded within the 1-mi study area in 1984 and 2011, neither of which intersect with the Project Area (Appendix C).





2.1.13 Replacement Structure #012G0737

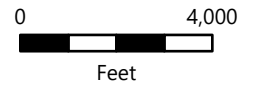
No cultural resources were identified within the 1-mi study area for replacement structure #012G0737 (Appendix B, Figure 13). Two previously recorded surveys were conducted within the 1-mi study area in 2005 and 2011 (Appendix C).

A 2005 Class III cultural resources survey conducted for Minnkota by Earthworks, Inc. included the Project Area for this proposed replacement structure. No cultural resources were identified in the Project Area as a result of this survey (Morrison 2005).

A review of the Stutsman County 1957 aerial photograph did not reveal cultural resources or notable features within the Project Area.

Redacted

-  Replacement Structures
-  Line 12 Centerline
-  Cultural Site
-  County Boundary






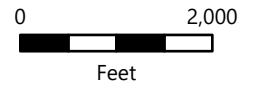
1900 USGS TOPO MAP

Line 12
Structure 012E0699
Minnkota Power
Cooperative, Inc.
Stutsman County, ND

FIGURE 2-5

Redacted

-  Replacement Structures
-  Line 12 Centerline
-  Cultural Site



1957 AERIAL IMAGERY

Line 12
Structure 012E0699
Minnkota Power
Cooperative, Inc.
Stutsman County, ND

FIGURE 2-6

3 Conclusions and Recommendations

Barr, at the request of Minnkota, conducted a Class I cultural resources literature review to satisfy the requirements for a siting exclusion certificate from the North Dakota PSC for the installation of 13 power line replacement structures for Minnkota's Line 12 transmission line. Most of the structures consist of replacement "in-kind", whereby the new structures will be placed either within or directly adjacent to the existing structure footprint. However, structure #012C0618 will be relocated approximately 80 feet west of the existing structure and will require an environmental report under 7 CFR 1970.54.

Minnkota is seeking funding from the U.S. Department of Agriculture, Rural Development-Rural Utility Service (USDA-RUS) for all proposed replacement structures. As a result, the Project is considered an undertaking subject to Section 106 of the NHPA.

The data provided by the North Dakota SHPO indicate that 24 previously recorded cultural resources are located within the 1-mi study areas of the 13 proposed structure replacements. These resources include five historic architectural resources, four historical sites, and 15 archaeological sites. None of these resources intersect with, or are directly adjacent to, the proposed Project Areas or their assumed APEs. Thirteen of these cultural resources are within the 1-mi study area for structure #012A1008, four are within the study area of structure #012C0107, two are within the study area for structure #012C0132, one is within the study area for structure #012C0212, one is within the study area for structure #012C0452, and three are within the study area for structure #12E0699. There are no National Historic Landmarks or National Register of Historic Places listed properties within the 1-mi study areas.

Thirty-one cultural resource surveys have been recorded within the study areas, one of which includes the Project area for the proposed replacement structure #012G0737.

Based on the results of the Class I literature review and considering that the proposed Line 12 replacement structures would be constructed in previously disturbed areas along Minnkota's existing ROW, Barr recommends a finding of No Historic Properties Affected for the proposed undertaking. No additional work related to cultural resources is recommended for the proposed project to proceed as planned.

4 References

ND Historical Map & Aerial Photography Dissemination Service

- 1894 Missouri River Commission Map. Electronic resource. <https://aerial.dwr.nd.gov/> . Accessed January 2024.
- 1938 Burleigh County Aerial Imagery. Electronic resource. <https://aerial.dwr.nd.gov/> . Accessed January 2024.
- 1960 Kidder County Aerial Imagery. Electronic resource. <https://aerial.dwr.nd.gov/> . Accessed January 2024.

North Dakota Atlases and Plat Books (ND State Library)

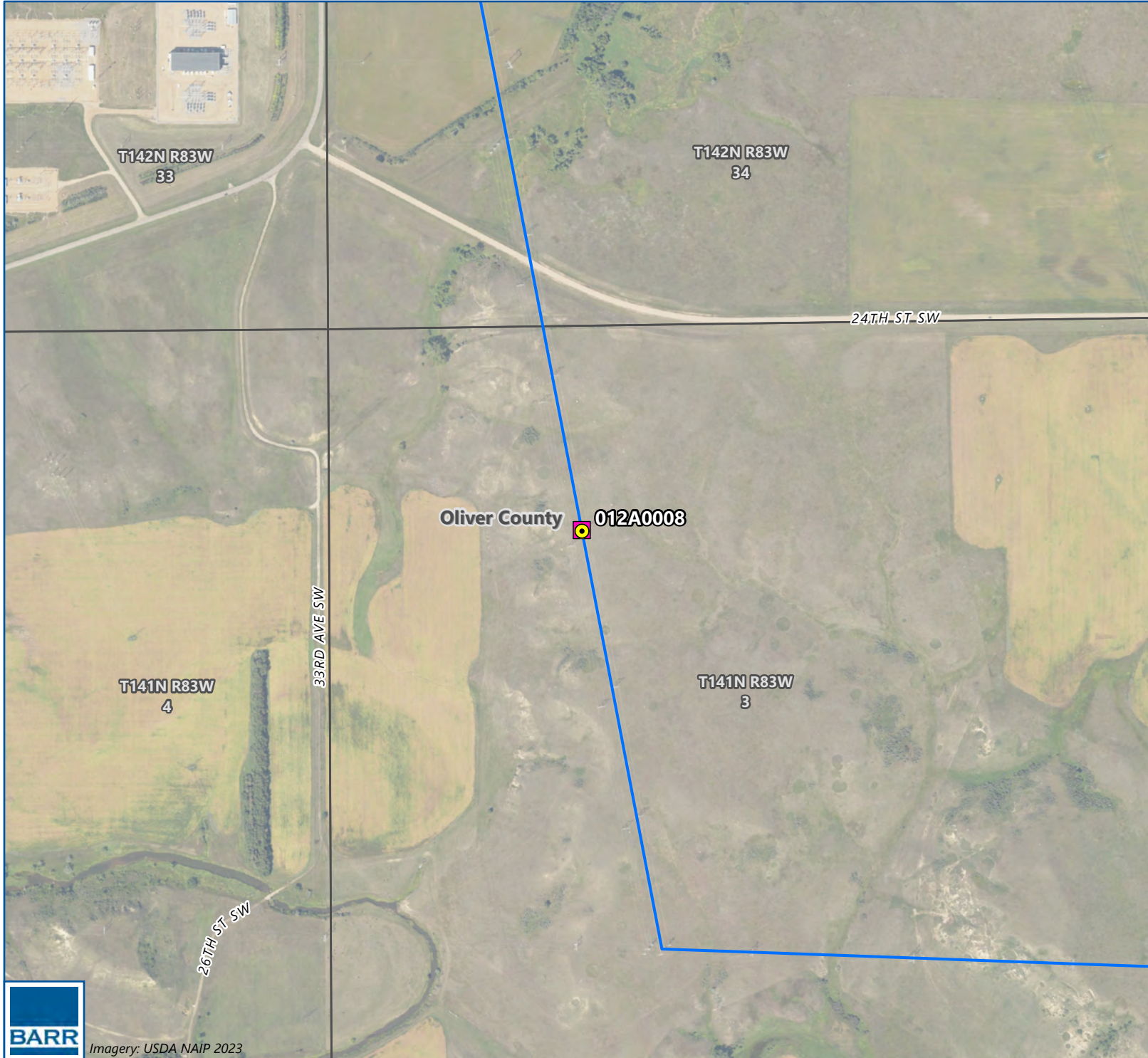
- Nd Map of Kidder County, N.D., 1912. Electronic resource, [Map of Kidder County, N.D., 1912 - North Dakota Atlases and Plat Books \(ND State Library\) - Digital Horizons \(digitalhorizonsonline.org\)](#). Accessed December 2023.






U.S. Geological Survey (USGS)

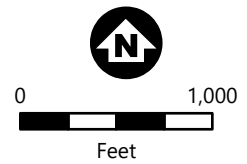
- 1980 Nelson Lake, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.
- 1976 Wilton, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.
- 1977 Regan, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.
- 1979 Harriet Lake, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.
- 1986 Kunkel Lake, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.
- 1986 Goldwin, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.
- 1995 Buchanan, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.
- 1995 Pingree, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.
- 1995 Fried, North Dakota 7.5' topographic quadrangle map. ArcGIS Pro. Accessed January 2024.

Appendix A

Project Area Aerial Imagery: Original and Replacement Structure Locations

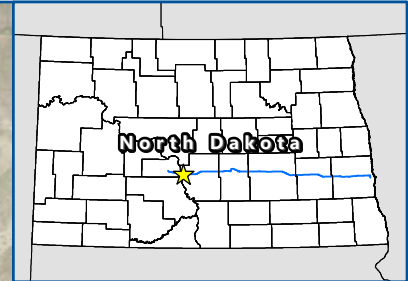
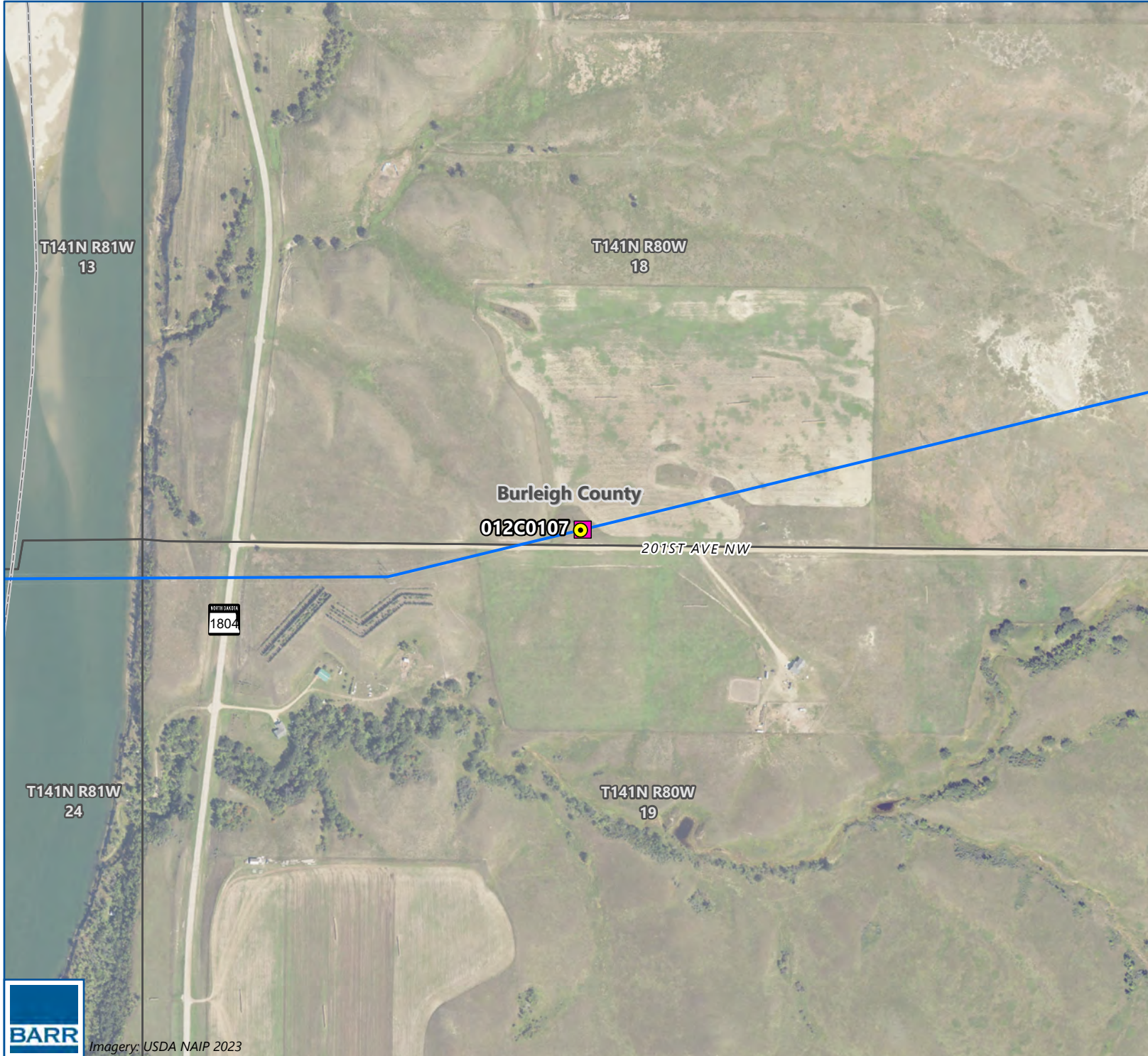







-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section

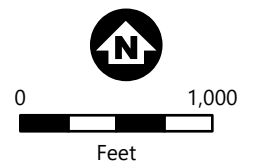


ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-1

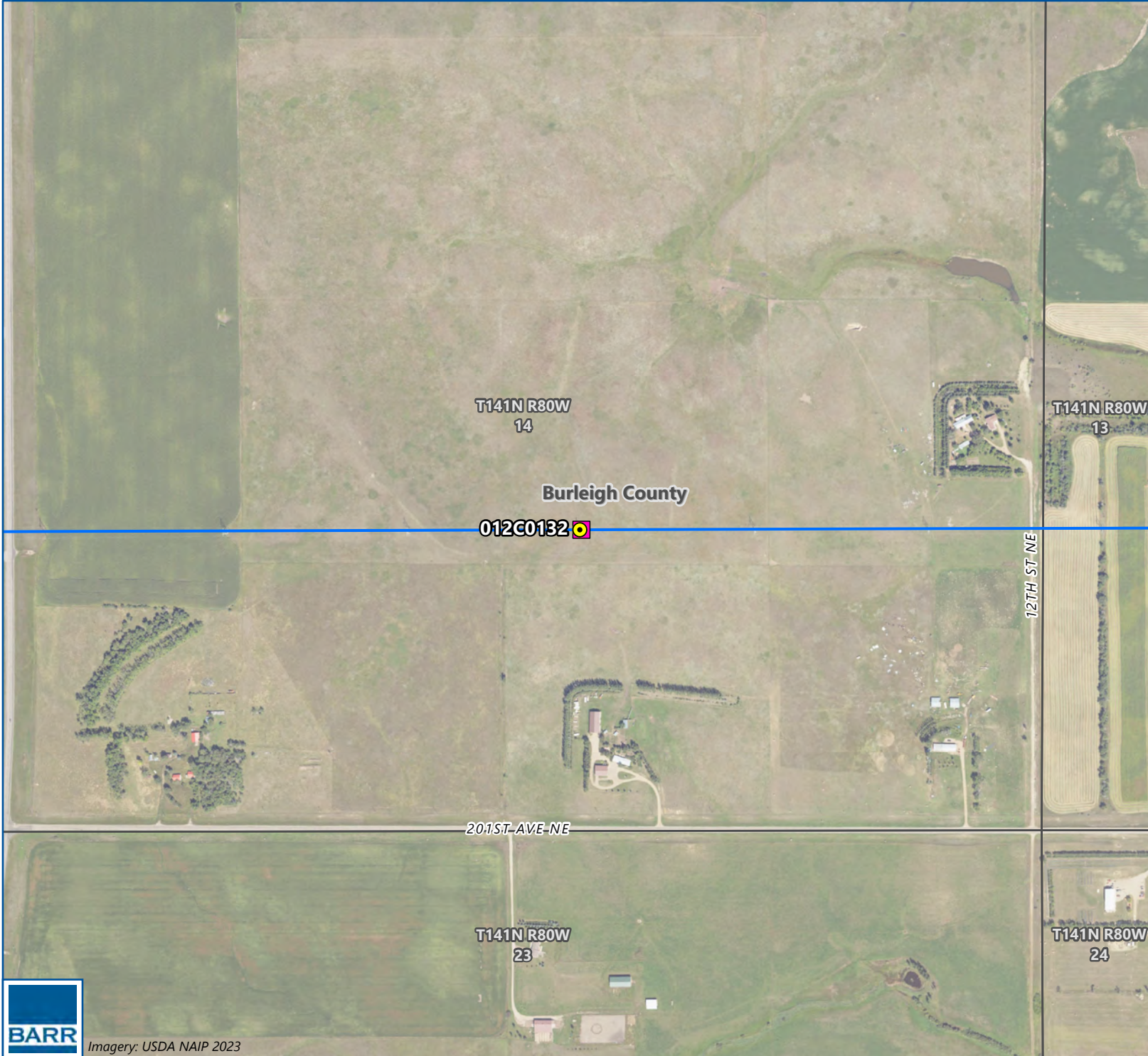







-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section

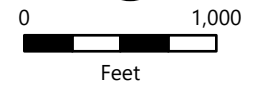


ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-2



-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section








ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS

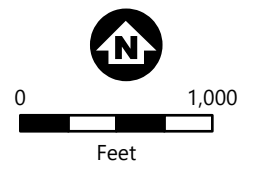
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-3



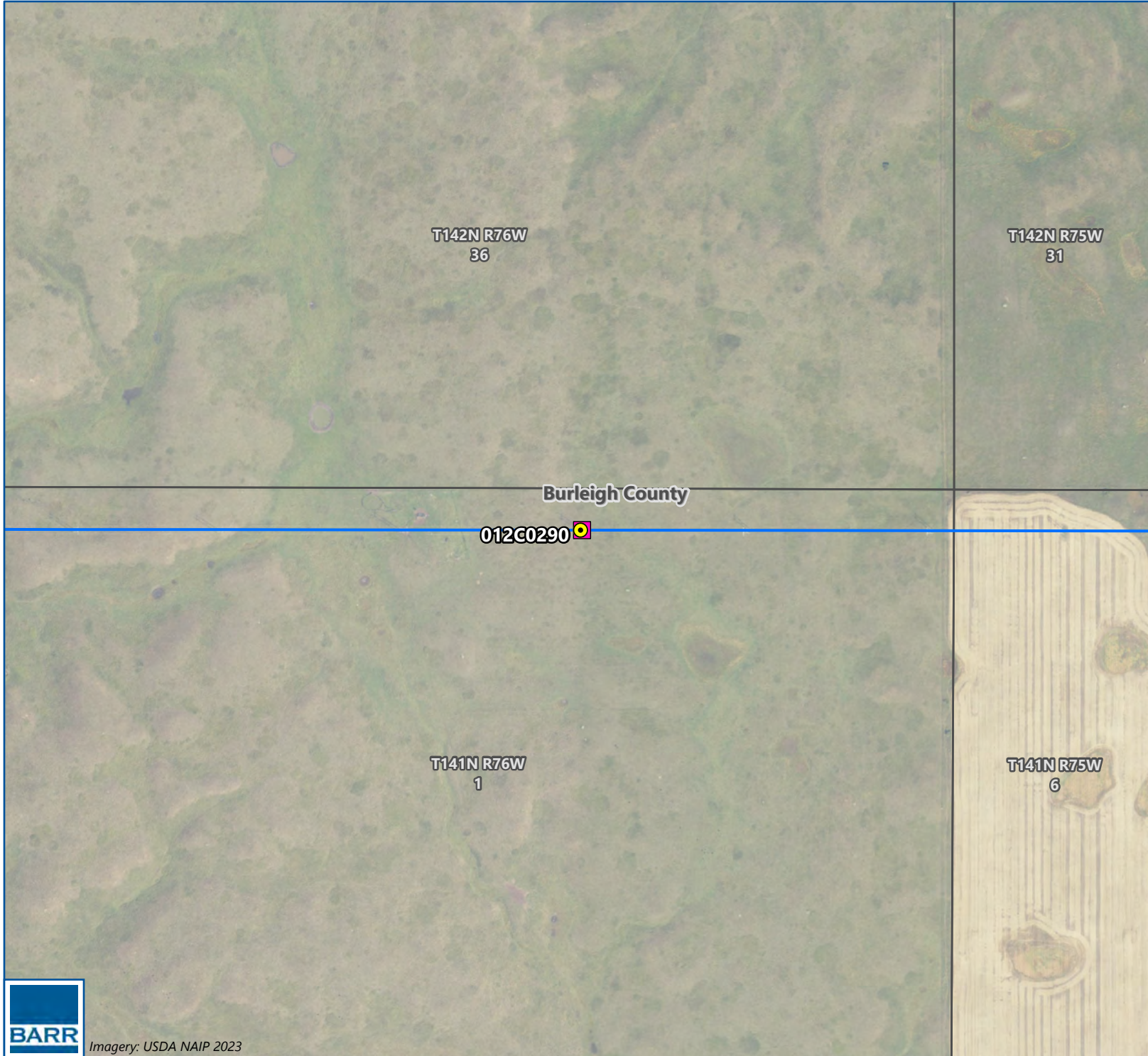







-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section

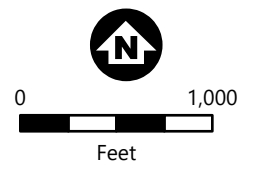


ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-4

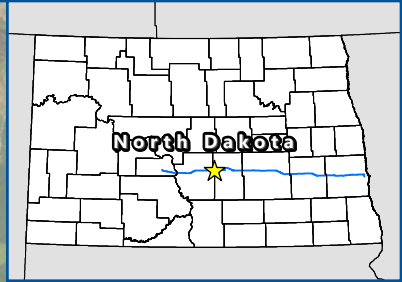
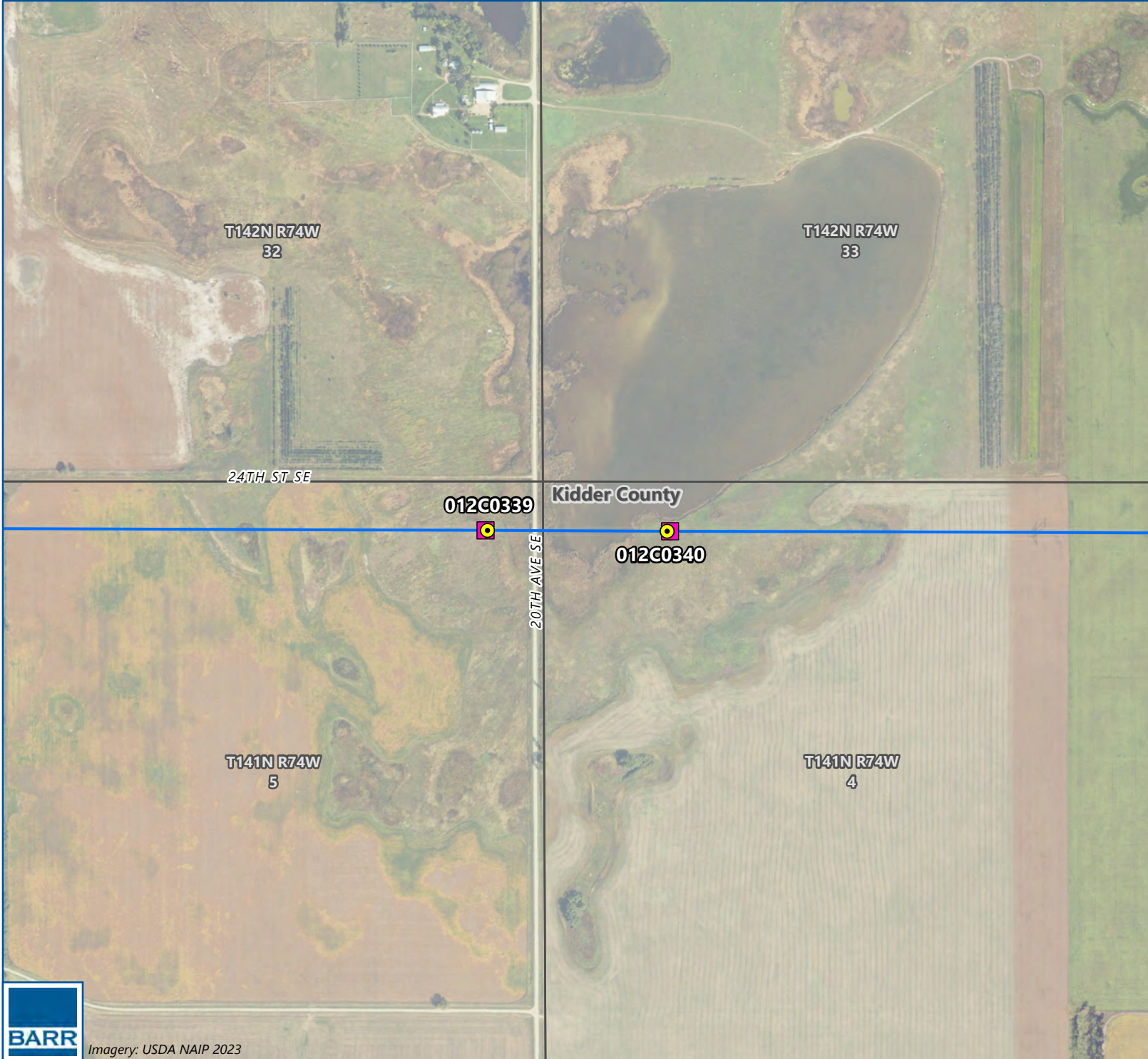







-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section

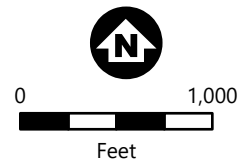


ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-5

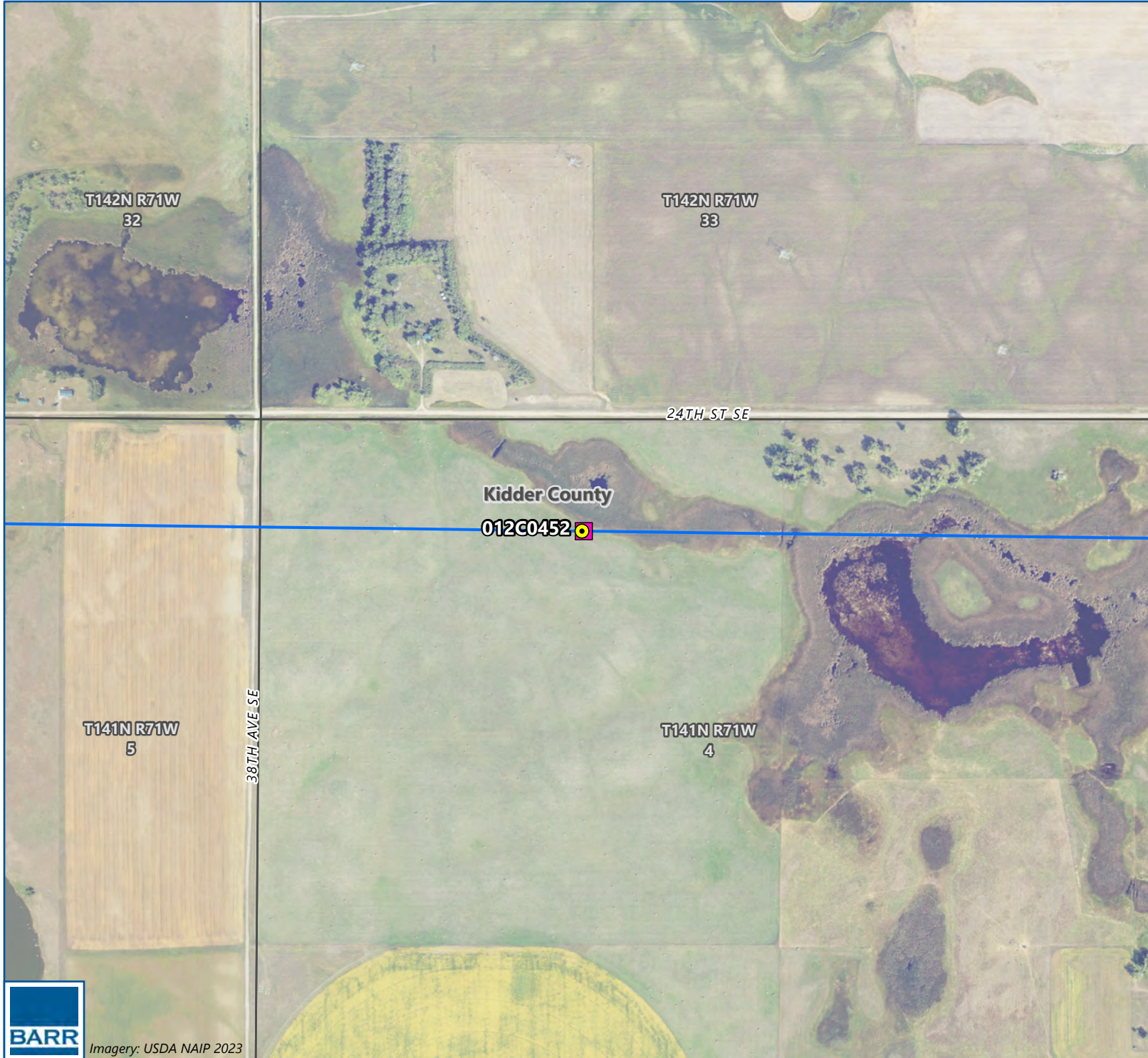







-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section

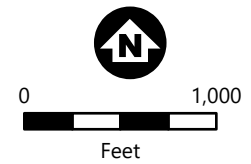


ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-6



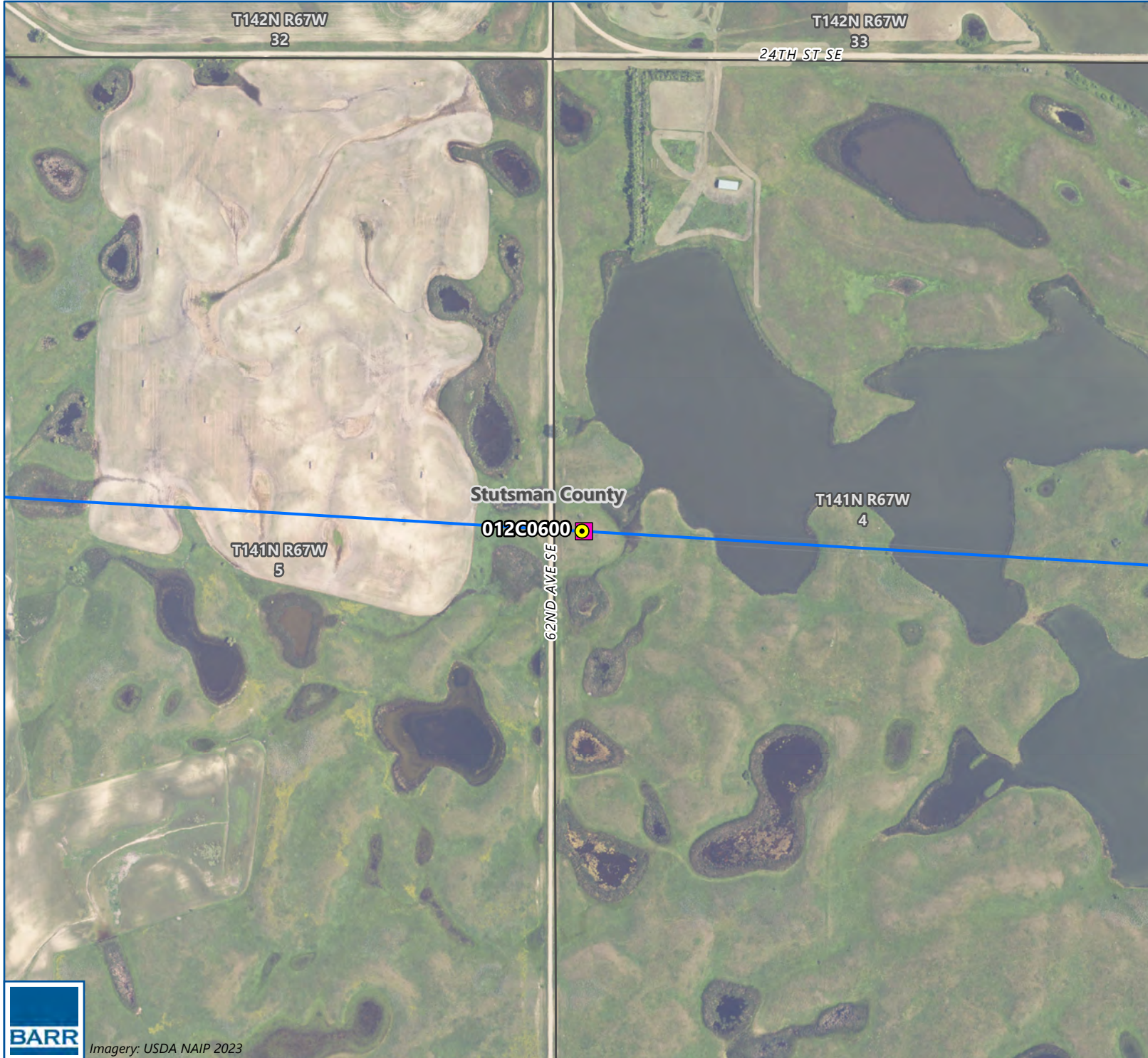
-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section



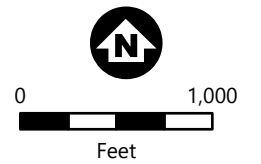
ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-7





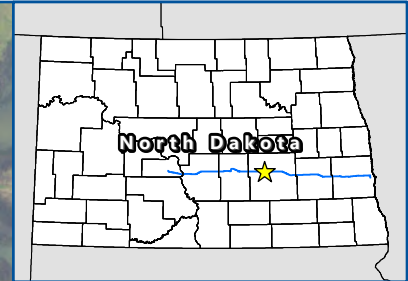
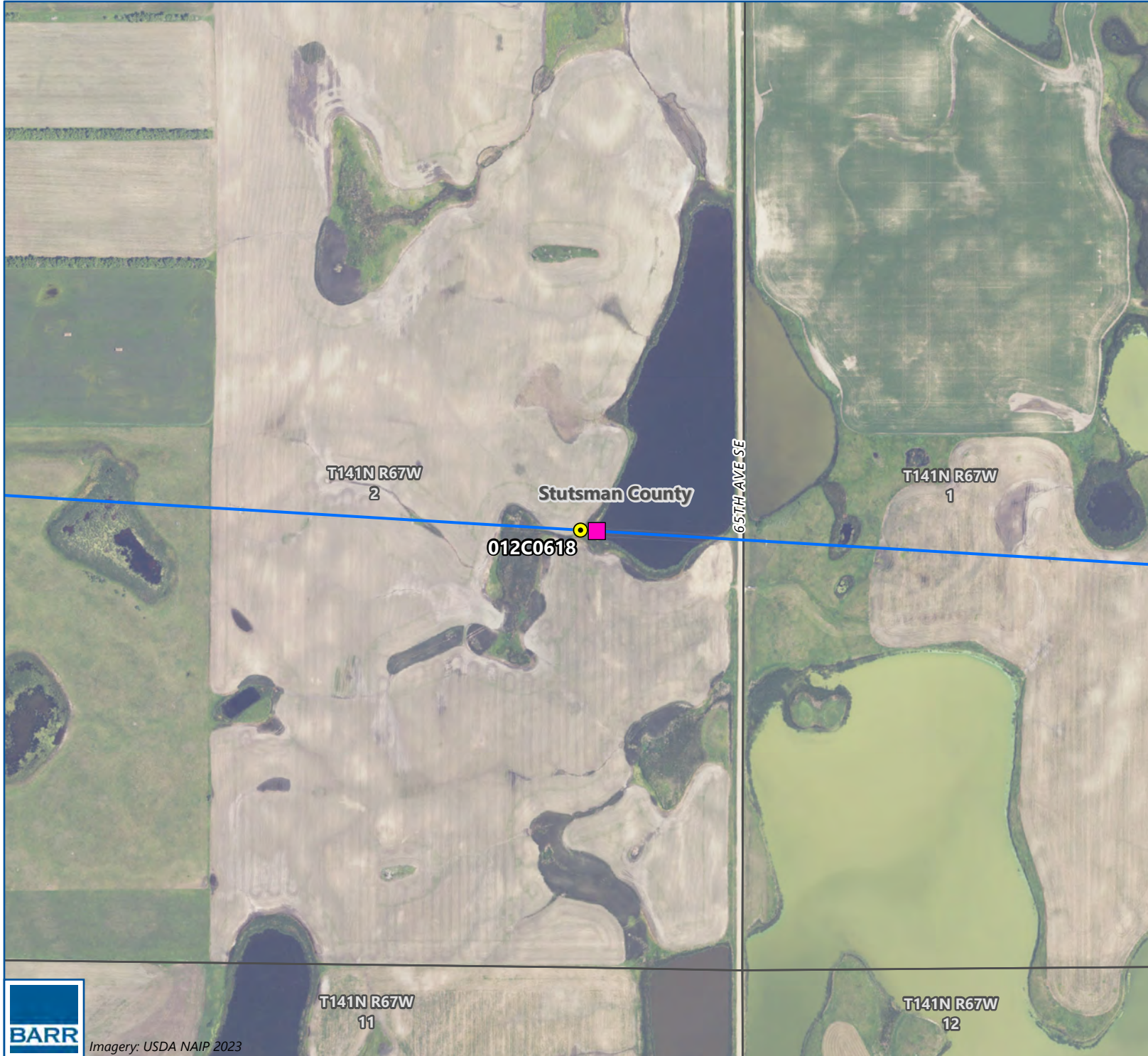
- Replacement Structures
- Original Structures
- Line 12 Centerline
- County Boundary
- Public Land Survey Section








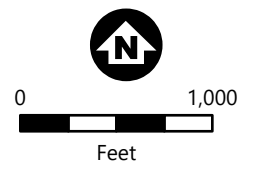
ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-8



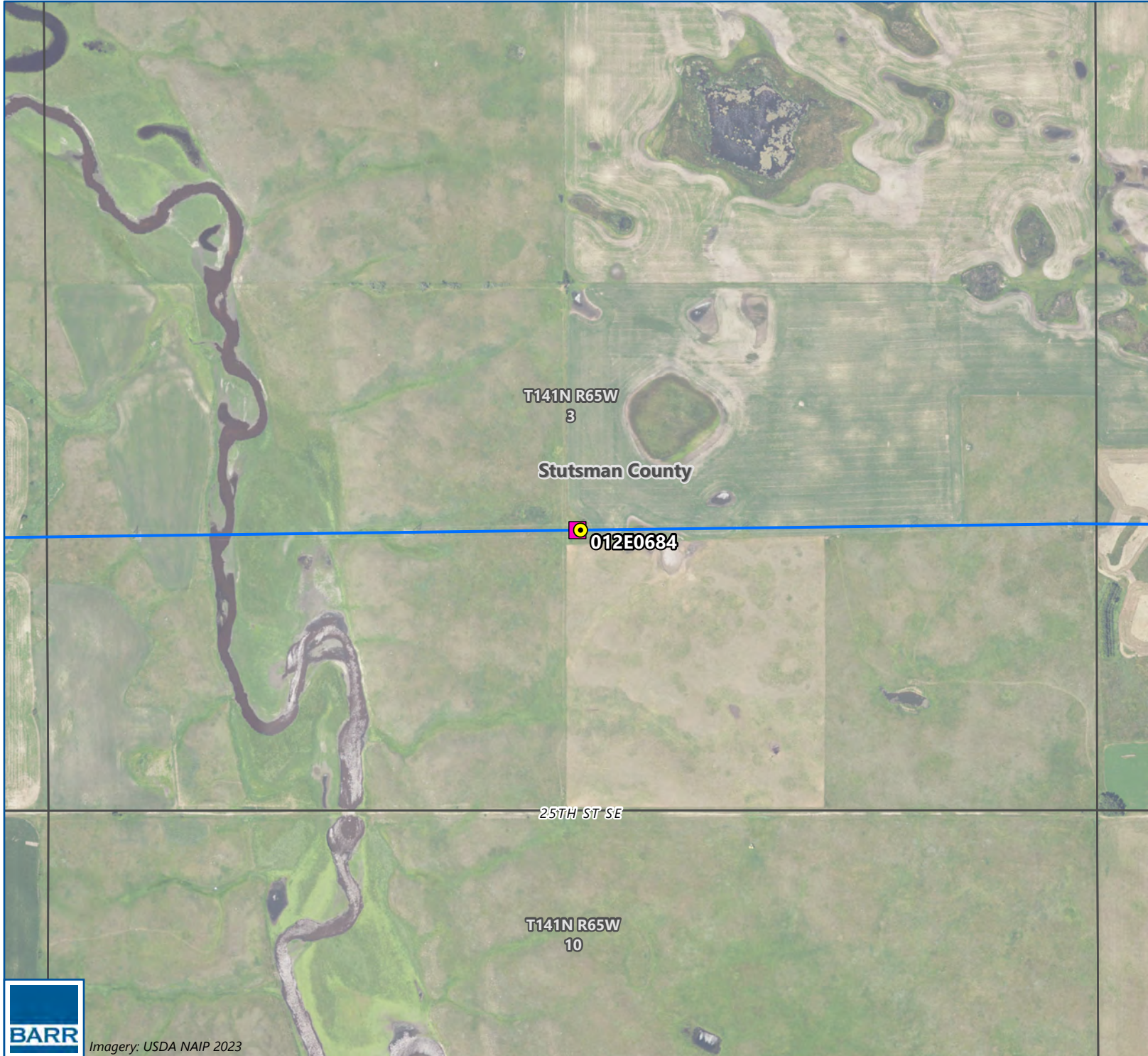


-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section

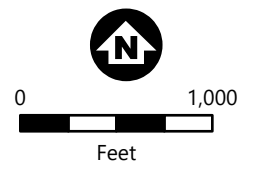


ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-9

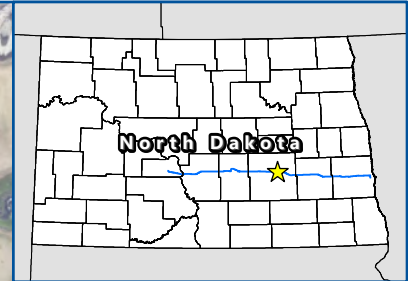







- Replacement Structures
- Original Structures
- Line 12 Centerline
- County Boundary
- Public Land Survey Section

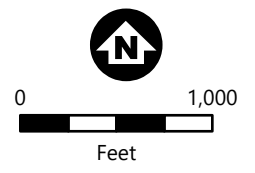


ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-10

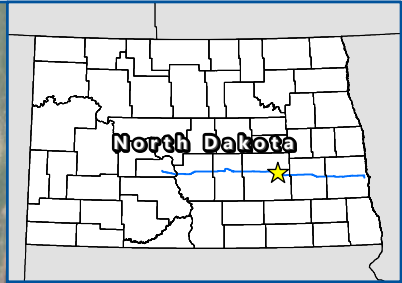
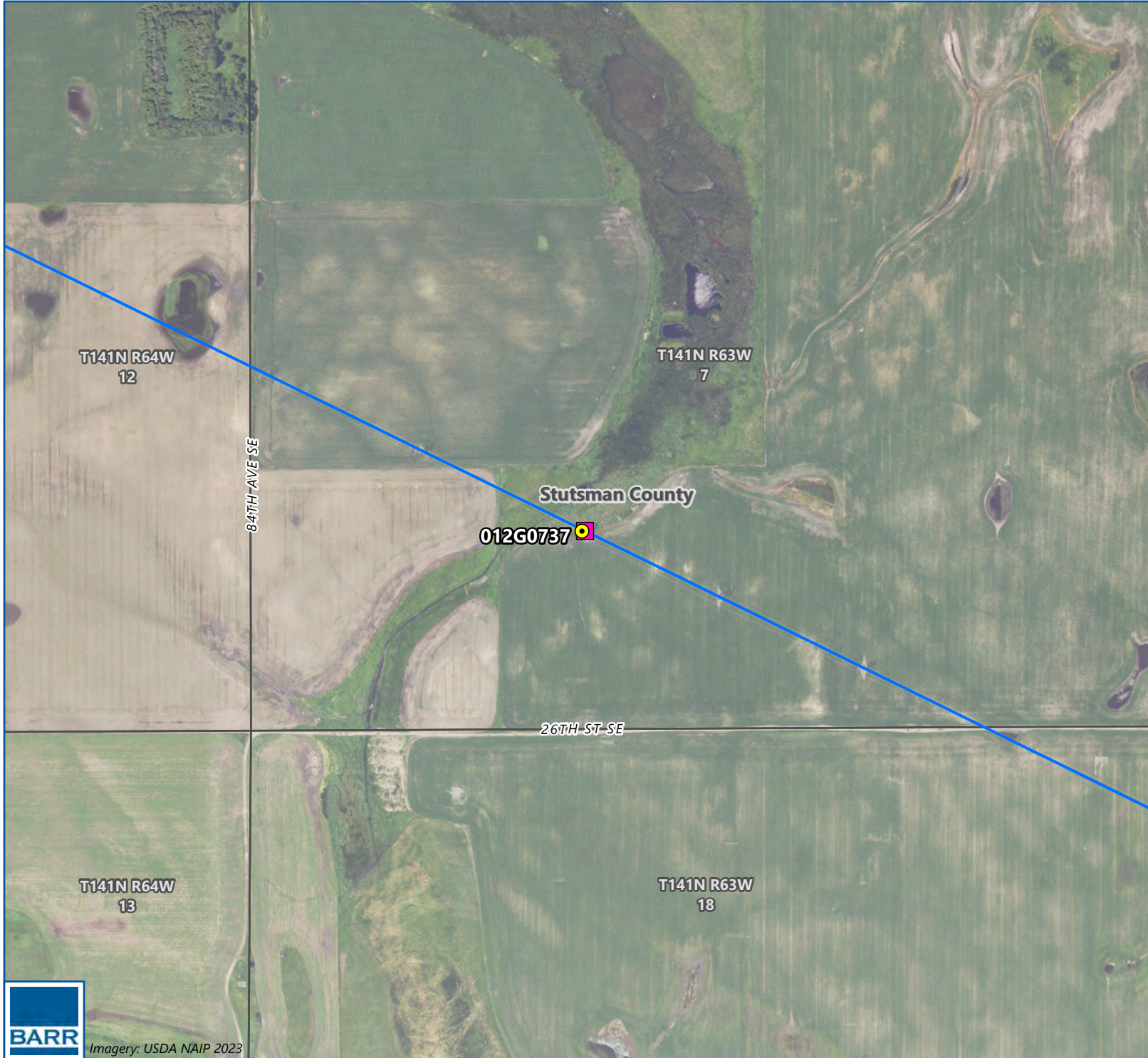


-  Replacement Structures
-  Original Structures
-  Line 12 Centerline
-  County Boundary
-  Public Land Survey Section

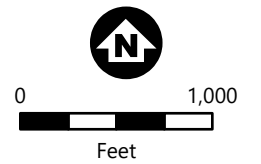


ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-11



- Replacement Structures
- Original Structures
- Line 12 Centerline
- County Boundary
- Public Land Survey Section



ORIGINAL AND REPLACEMENT STRUCTURE LOCATIONS
Line 12
Minnkota Power Cooperative, Inc.
Oliver, Burleigh, Kidder and Stutsman County, ND

APPENDIX A-12

Appendix B

Project Area Aerial Imagery with Class I File Search Results

Redacted

- Project Area
- 1-Mile Study Area
- Surveys
- Sites and Historic Architecture**
- Isolated Finds**



0.25 mile

Structure #012A0008
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 1

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012C0107
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 2

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012C0132
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 3

Redacted

- Project Area
- 1-Mile Study Area

Surveys

**Sites and Historic
Architecture**

Isolated Finds



0.25 mile

Structure #012C0212
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 4

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012C0290
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 5

Redacted

- Project Area
- 1-Mile Study Area

Surveys

**Sites and Historic
Architecture**

Isolated Finds



0.25 mile

Structure #012C0339
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 6

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012C0340
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 7

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012C0452
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 8

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012C0600
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 9

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012C0618
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 10

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012E0684
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 11

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012E0699
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 12

Redacted

- Project Area
- 1-Mile Study Area

Surveys

Sites and Historic
Architecture

Isolated Finds



0.25 mile

Structure #012G0737
Cultural Resources
Minnkota Power Cooperative
Line 12 Structure
Replacements

FIGURE 13

Appendix C

Class I File Search Manuscript Results Table

| Manuscript Number | Author | Year | Title |
|-------------------|---------------------------------------|------|--|
| 3003 | Robson, Larry G. | 1980 | Class III Intensive Inventory for All Cultural Resources Horseshoe Butte Area Section 32 Erosion Control Project, Oliver County, North Dakota |
| 3273 | Kuehn, David D. | 1984 | A Class III Intensive Inventory of the Buchanan Step I Facility, Buchanan, Stutsman Co., ND |
| 6636 | Larson, Thomas K. & Dori M. Penny | 1996 | Report of Findings From an Intensive Cultural Resource Inventory in Emmons, Burleigh and McLean Counties, Conducted on Portions of a Proposed Water Project for the Burleigh Water Users Cooperative with Addendum |
| 6876 | Kinney, W. Jeffrey | 1996 | The Randy Oster Inventory Property, A Class III Cultural Resource Inventory of ca. 1,080 Acres in Burleigh Co., ND for the USDA, Farm Service Agency, Fargo, ND. Order Number 60-87AS-6-C0002. |
| 7490 | Banks, Kimball M. | 1999 | Schwalbe Gravel Pit Project: A Cultural Resources Inventory in Oliver Co., ND |
| 7379 | Rothwell, Sarah J. & Thomas K. Larson | 1999 | Results of Class II and Class III Cultural Resource Inventories for Upgrades to Telecommunications Lines: The Center Exchange in Oliver and Mercer Counties, ND |
| 7335 | Kinney, W. Jeffrey | 1999 | Stutsman County Emergency Borrow Area for NDDOT Project #CER-4717(56) Near Pingree, ND |
| 8045 | Metcalf, Michael D. | 2001 | Plains Village Site Evaluations Near Bismarck, North Dakota and Inventory of Selected Missouri River Terraces Burleigh, Morton and Oliver Co., ND |
| 9333 | Morrison, John G. | 2005 | Nine Power Structures For Minnkota Power: A Class III Cultural Resource Inventory, A Class III Cultural Resource Inventory, Burleigh, Cass, and Stutsman Counties, ND |
| 9675 | Stine, Edward & Andrea Kulevsky | 2006 | Oliver County Wind Farm: A Class III Cultural Resource Inventory in Oliver Co., ND |
| 9766 | Kulevsky, Andrea | 2006 | Addendum to Oliver County Wind Farm: A Class III Cultural Resource Inventory in Oliver County, ND: Substation and Transmission Line |
| 9715 | Stine, Edward | 2006 | Capital Electric Cooperative's Four Year Construction Plan: A Class II and Class III Cultural Resources Inventory in Burleigh and Sheridan Co., ND Addendum A |
| 10296 | Stine, Edward & Andrea Kulevsky | 2007 | FPL Energy's Oliver County Wind Farm II: A Class III Cultural Resource Inventory in Oliver Co., ND |

| Manuscript Number | Author | Year | Title |
|-------------------|---|------|---|
| 10293 | Stine, Edward | 2007 | 2007 Highway 83 Survey: A Class III Cultural Resource Inventory of the Road Right-of-Way Between Bismarck and Wilton in Burleigh Co., ND |
| 10446 | Boughton, John M. | 2008 | BNI Coal: A Cultural Resource Inventory of 7,680 Acres in Area C in Oliver Co., ND |
| 11170 | Carpenter, Mark | 2009 | Cultural Resources Inventory of the BEK Communications Cooperative Rural Burleigh County T3.0 BER Exchange Buried Cables Project T137N-T142N, R78W-R81W Burleigh Co., ND |
| 11982 | Holven, Adam C. & Erika L. Eigenberger | 2011 | A Class III Cultural Resources Investigation Oliver III Transmission Line Morton and Oliver Counties, ND |
| 12255 | Sabatke, Steven W, Dylan J Eigenberger, & Melissa Lundberg | 2011 | Class III Archaeological Resource Inventory for a proposed 75.9 megawatt wind and associated transmission line project in Oliver and Morton Counties, ND. |
| 12924 | Justin, Michael A. & Erika L. Eigenberger | 2011 | Class III Intensive Archaeological Resources Inventory of the Center to Grand Fords 345kV Transmission Line |
| 12950 | Morrison, John G., Elizabeth E. Anderson, & Tim D. Goggin | 2011 | Stutsman Rural Water District Phase II Water Supply Expansion Project: Class II and Class III Cultural Resource Inventories, Stutsman, Foster, and Griggs Counties, North Dakota |
| 12958 | Justin, Michael A. & Erika L. Eigenberger | 2012 | Class III Intensive Archaeological Resources Inventory of the Center Grand Forks 345 k V Line Supplemental Addendum I |
| 13590 | Eigenberger, Erika L. & Michelle Porwoll | 2012 | Class III Intensive Archaeological Resources Inventory Center to Grand Forks 345 kV Line Supplemental Addendum 3, Griggs, McLean, Oliver, Sheridan, and Wells Counties, North Dakota |
| 13678 | Eigenberger, Erika L. & Michelle Porwoll | 2012 | Class III Intensive Archaeological Inventory Center to Grand Forks 345kV Line Supplemental Addendum 3-Appendix 3, Oliver, McLean and Wells Counties, North Dakota |
| 14397 | Engel, Damita J. | 2013 | Minnkota Power Cooperative's Center to Mandan 230kV Transmission Line: A Class III Cultural Resource Inventory in Morton and Oliver Counties, North Dakota |
| 15143 | Jackson, Michael A., Megan J. Lonski, Dennis L. Toom, & Madisson L. Whitman | 2013 | Center Service Area Phase 2 Rural Distribution Lines: 2012 Class II-III Cultural Resources Inventories Southwest Water Pipeline Project Oliver, Mercer, and Morton Counties, North Dakota |

| Manuscript Number | Author | Year | Title |
|-------------------|---|------|---|
| 15347 | Jackson, Michael A., Nathan J. Rokke, &Dennis L. Toom | 2014 | 2013 Survey Report Addendum: Center Service Area Rural Distribution Lines Supplemental Class II-III Cultural Resources Inventory, Southwest Water Pipeline Project, Oliver, Mercer, and Morton Counties, North Dakota SWPP Contract 7-9F |
| 15480 | Eigenberger, Erika L. | 2014 | Project Summary Report Class III Intensive Archaeological Resources Inventory Center to Grand Forks Project |
| 15720 | Holven, Adam C. | 2014 | Addendum to: Class III Cultural Resources Inventory, Wilton IV Wind Energy Center, Burleigh County, North Dakota |
| 17264 | Cox, Matthew A. | 2016 | 2015 Survey Report Addendum: Center Service Area Phase 2 Rural Distribution Lines Supplemental Class II and Class III Cultural Resources Inventories for the Southwest Water Pipeline Project, Oliver Mercer, and Morton Counties, North Dakota SWPP Contract 7-9F` |
| 18908 | Harding, William M. | 2020 | A Class I and Class III Cultural Resource Inventory of SHN 230 kV Transmission Line Rebuild Project, Mercer and Oliver Counties, North Dakota |
| 19701 | Pace, Rebecca | 2022 | Tundra Well Location: A Class III Cultural Resource Inventory in Oliver County, North Dakota |

From: [Kacey Borin](#)
To: [Peterson, Bill](#)
Cc: [Veronica A. Parsell](#); [Bastis, Kristen - RD, DC](#)
Subject: Minnkota Power Cooperative- 345kV Line 12 Structure Replacements
Date: Thursday, February 22, 2024 3:57:00 PM
Attachments: [20240222_LTR-RUS-NDSHPO_21839_L012_RPL.pdf](#)
[20240129_RPT-Barr_21839_L012_RPL-Class_I.pdf](#)
[20230902_MAPs-GIS_21839_L012_RPL-Changes.pdf](#)

Good afternoon Bill,

Minnkota Power Cooperative, Inc. (MPC) is seeking financial assistance from the USDA Rural Utilities Service (RUS) under its Electric Infrastructure Loan Program for the 345kV Line 12 Structure Replacements Project in Oliver, Burleigh, Kidder and Stutsman Counties, ND. A Class I Literature Review was completed by a consultant in January 2024. Accordingly, MPC is submitting the attached letter, on behalf of RUS, with the finding of "No Historic Properties Affected" in accordance with 36 CFR § 800.4(d)(1) for your review and consideration. Please provide your concurrence or objection, electronically within 30 days of your receipt of this recommended finding.

Thanks-

Kacey Ann Borin (she/her)
Environmental Specialist I

Minnkota Power Cooperative, Inc
5301 32nd Ave. S.
Grand Forks, ND 58201
Office: (701) 795-4287
Mobile: (701) 317-8741
Email: kborin@minnkota.com
Web: www.minnkota.com





2/22/2024

Rural Development
Rural Utilities Service
1400 Independence
Ave SW, Room 4018
Stop 1570,
Washington, DC,
20250

Bill Peterson
State Historic Preservation Officer
North Dakota State Historic Preservation Office
612 East Boulevard Ave
Bismarck, ND 58505

Voice 202.961.6139

Subject: USDA RD RUS Staff Recommended Finding of No Historic Properties Affected
345kV Line 12 Structure Replacements
Oliver, Burleigh, Kidder, and Stutsman Counties, North Dakota

Dear SHPO Peterson:

Minnkota Power Cooperative, Inc (MPC) is seeking financial assistance from the USDA Rural Development (RD), Rural Utilities Service (RUS) under its Electric Program for the 345kV Line 12 Structure Replacements project. This Project will not be using the NPA.¹

The Project entails replacing 13 poles within Oliver, Burleigh, Kidder, and Stutsman Counties in North Dakota along the 345kV line. Most of the structures will be placed within 10 feet, and one within 15 feet, of the existing structure. However, one structure, #012C0618, will be relocated 80 feet west of the existing structure. Table I below shows the structures and their replacement distance. These structures have structural foundation issues beyond reasonable repair. The Project replaces these identified structures proactively to avoid catastrophic failures threatening the line’s reliability.

| LINE # | STR # | REPLACEMENT DISTANCE (DIRECTION ALONG LINE) | CURRENT COORD. | |
|--------|-------|--|----------------|----------|
| | | | LAT | LONG |
| 012A | 0008 | 10 FT AHEAD/ SOUTH | 47.06542 | -101.188 |
| 012C | 0107 | 10 FT BACK/ WEST | 47.02682 | -100.867 |
| 012C | 0132 | 10 FT BACK/ WEST | 47.03052 | -100.78 |
| 012C | 0212 | 10 FT AHEAD/ NORTHEAST | 47.05943 | -100.515 |
| 012C | 0290 | 10 FT BACK/ WEST | 47.06821 | -100.248 |
| 012C | 0339 | 10 FT AHEAD/ EAST | 47.06789 | -100.074 |
| 012C | 0340 | 10 FT BACK/ WEST | 47.06788 | -100.07 |
| 012C | 0452 | 10 FT BACK /WEST | 47.06599 | -99.6862 |
| 012C | 0600 | 10 FT BACK/ WEST | 47.06019 | -99.1851 |
| 012C | 0618 | 80 FT BACK/ WEST | 47.05773 | -99.125 |
| 012E | 0684 | 15 FT AHEAD/ EAST | 47.05565 | -98.9005 |
| 012E | 0699 | 10 FT BACK/ WEST | 47.05558 | -98.8482 |
| 012G | 0737 | 10 FT BACK/ NORTHWEST | 47.04011 | -98.7144 |

¹ Nationwide Programmatic Agreement among the U.S. Department of Agriculture Rural Development Programs, National Conference of State Historic Preservation Officers, Tribal Signatories, and The Advisory Council on Historic Preservation for Sequencing Section 106 (NPA).

If RUS elects to fund the Project, it will become an undertaking subject to review under Section 106 of the National Historic Preservation Act, 54 U.S.C. 306108, and its implementing regulations, 36 CFR Part 800.

RUS defines the area of potential effect (APE), as an area that includes all Project construction and excavation activity required to construct, modify, improve, or maintain any facilities; any right-of-way or easement areas necessary for the construction, operation, and maintenance of the Project; all areas used for excavation of borrow material and habitat creation; all construction staging areas, access routes, utilities, spoil areas, and stockpiling areas. Impacts that come from the undertaking at the same time and place with no intervening causes, are considered “direct” regardless of its specific type (e.g., whether it is visual, physical, auditory, etc.). “Indirect” effects to historic properties are those caused by the undertaking that are later in time or farther removed in distance but are still reasonably foreseeable.

The APE for the referenced project consists of a 1-mile radius around each of the 13 proposed structure spots, as shown on the enclosed map. Additionally, The APE does not include any federal and/or tribal lands as defined pursuant to 36 CFR § 800.16(x).

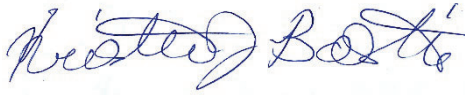
The following Indian tribes will be notified about the 345kV Line 12 Structure Replacements project: Apache Tribe of Oklahoma; Cheyenne River Sioux Tribe of the Cheyenne River Reservation, South Dakota; Crow Creek Sioux Tribe of the Crow Creek Reservation, South Dakota; Fort Belknap Indian Community of the Fort Belknap Reservation of Montana; Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota; Lower Sioux Indian Community in the State of Minnesota; Oglala Sioux Tribe; Prairie Island Indian Community in the State of Minnesota; Rosebud Sioux Tribe of the Rosebud Indian Reservation, South Dakota; Santee Sioux Nation, Nebraska; Standing Rock Sioux Tribe of North and South Dakota; Three Affiliated Tribes of the Fort Berthold Reservation, North Dakota.

The enclosed report titled, *Class I Cultural Resources Literature Review- Line 12 Pole Replacement Project*, dated January 2024, describes the results of the investigation of the APE. 24 previously recorded cultural resources and 31 surveys are located within the APEs. None of the resources intersect, or are directly adjacent to, the proposed APEs. Based on the findings of the *Class I Cultural Resources Literature Review- Line 12 Pole Replacement Project*, dated January 2024, a finding of no historic properties affected in accordance with 36 CFR § 800.4(d)(1) is appropriate for the referenced project.

Accordingly, the RUS is submitting a finding of no historic properties affected in accordance with 36 CFR § 800.4(d)(1) and supporting documentation for review and consideration by the SHPO Peterson. Please provide your concurrence or objection, **electronically** within 30 days of your receipt of this recommended finding. In accordance with 36 CFR § 800.3(c)(4), RUS will

proceed to the next step in review if we do not receive a response from you within thirty days. Please direct any questions you may have to Kristen Bastis via email at Kristen.Bastis@usda.gov.

Sincerely,

A handwritten signature in blue ink that reads "Kristen Bastis". The signature is written in a cursive style with a large initial 'K' and 'B'.

Kristen Bastis, MA
Archeologist
Environmental and Historic Preservation Division
Rural Utilities Service

Enclosure(s): Structure replacement maps
Class I Cultural Resources Literature Review, Line 12 Pole Replacement Project

CC: Kacey Borin, Minnkota Power Cooperative, Inc.



012A0006

24th St SW

24th St S

012A0007

10 FT AHEAD

012A0008

012A0009



ND 1804 H

ND 1804 Hwy NW

201st Ave NW

201st Ave NW

201st Ave NW

012C0106

012C0107

012C0108

10 FT BACK

T141R80S14

012C0130

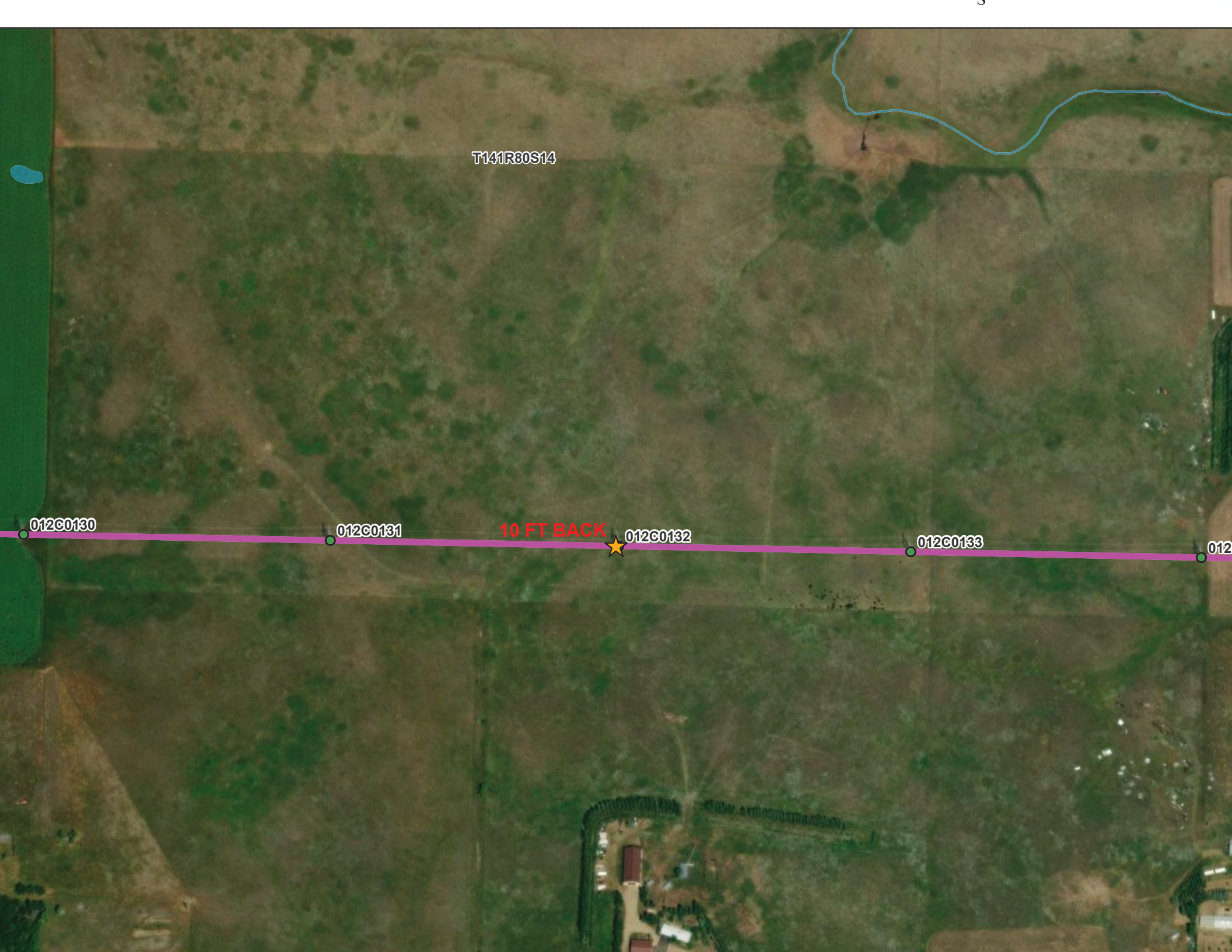
012C0131

10 FT BACK

012C0132

012C0133

012





17.1st St NE

17.1st St NE

012C0210

012C0211

10 FT AHEAD 012C0212

012C0213

012C0214

012C0288

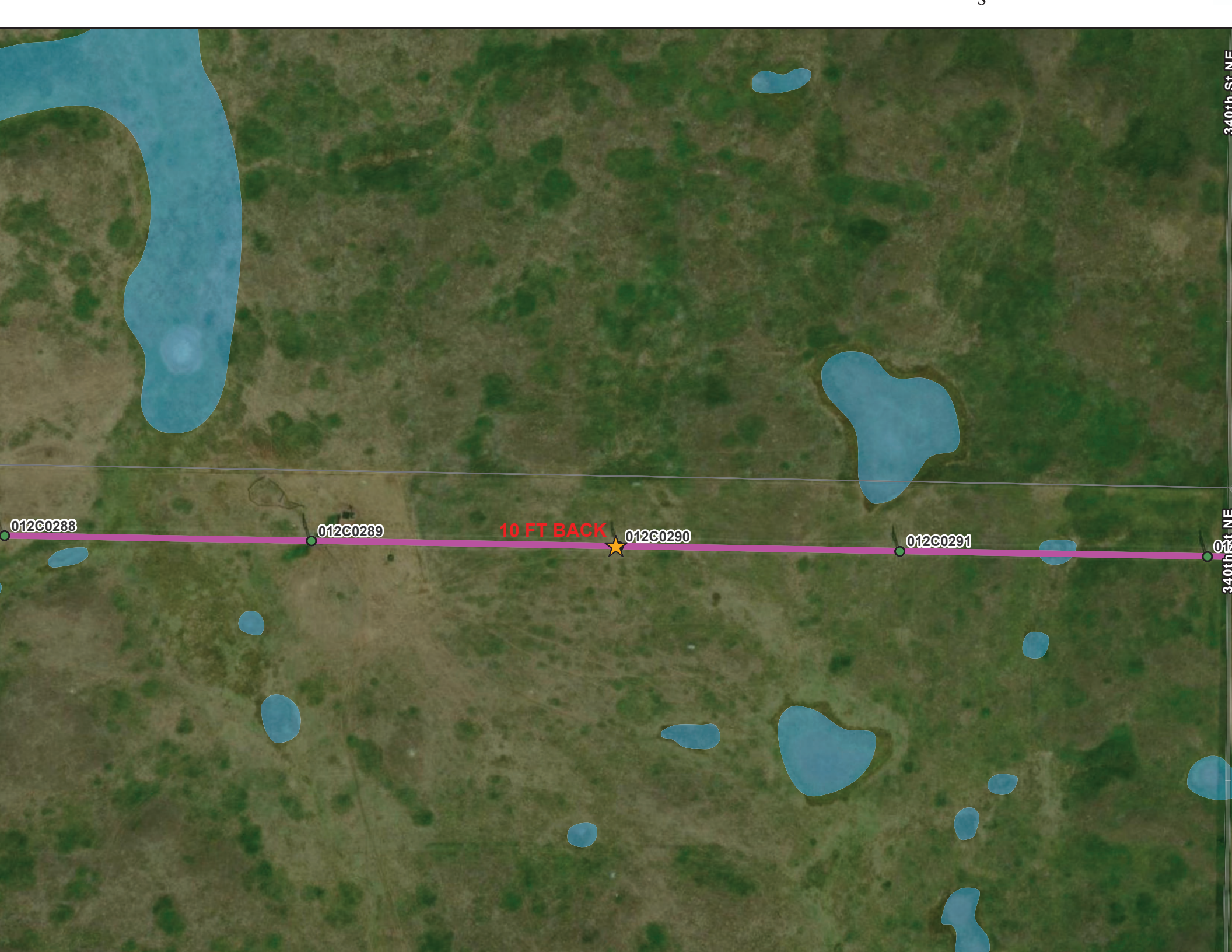
012C0289

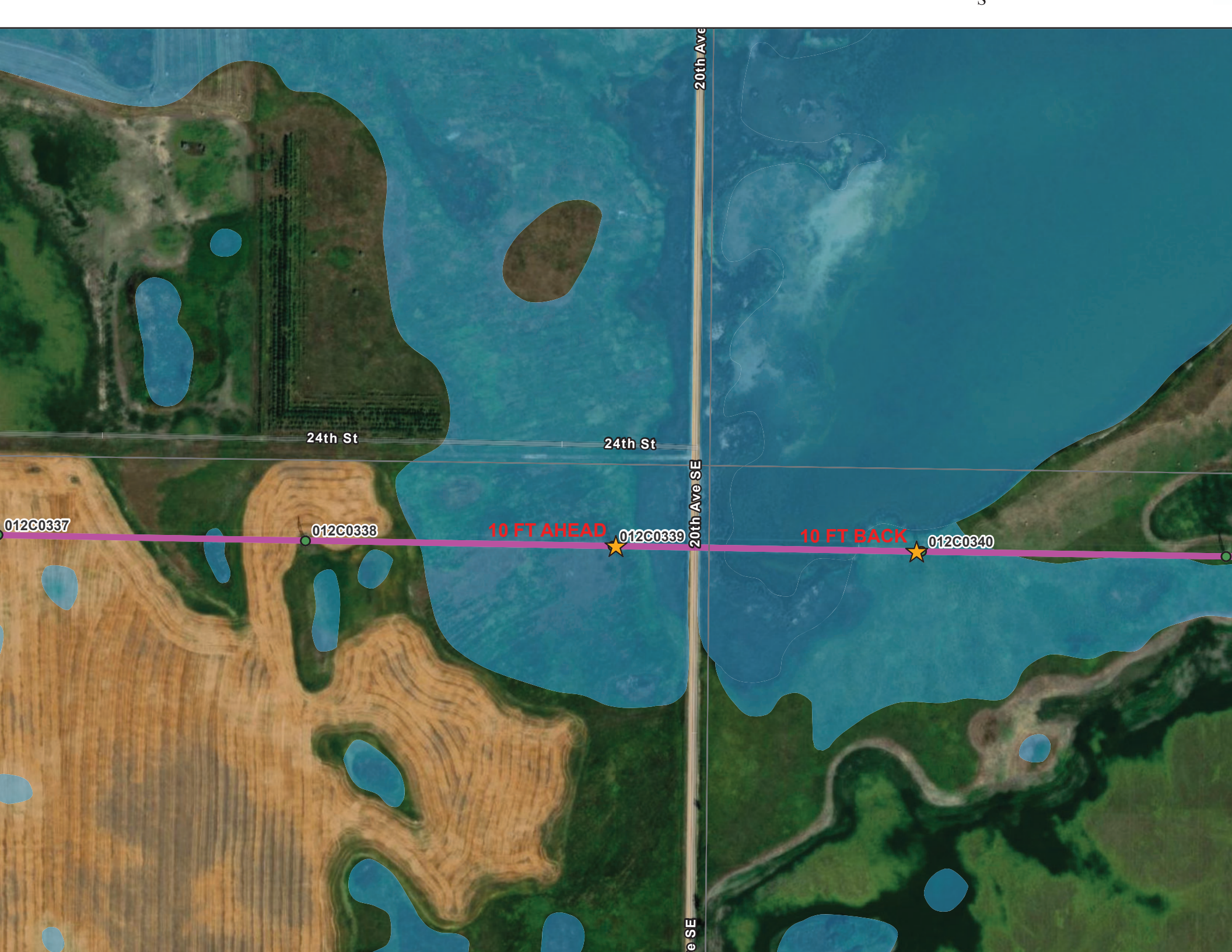
10 FT BACK

012C0290

012C0291

340th St NE





24th St

24th St

20th Ave

20th Ave SE

e SE

012C0337

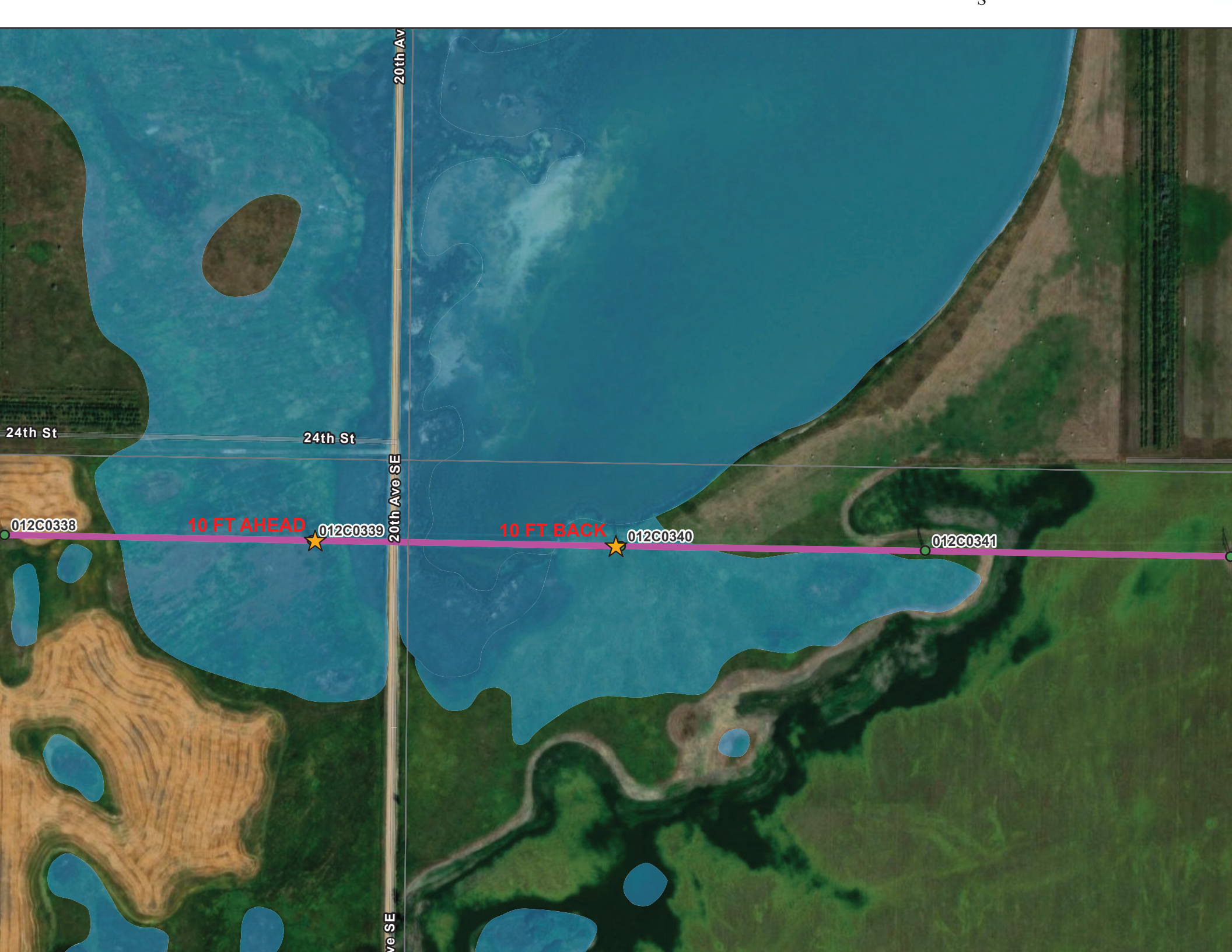
012C0338

10 FT AHEAD

012C0339

10 FT BACK

012C0340



20th Av

24th St

24th St

20th Ave SE

012C0338

10 FT AHEAD

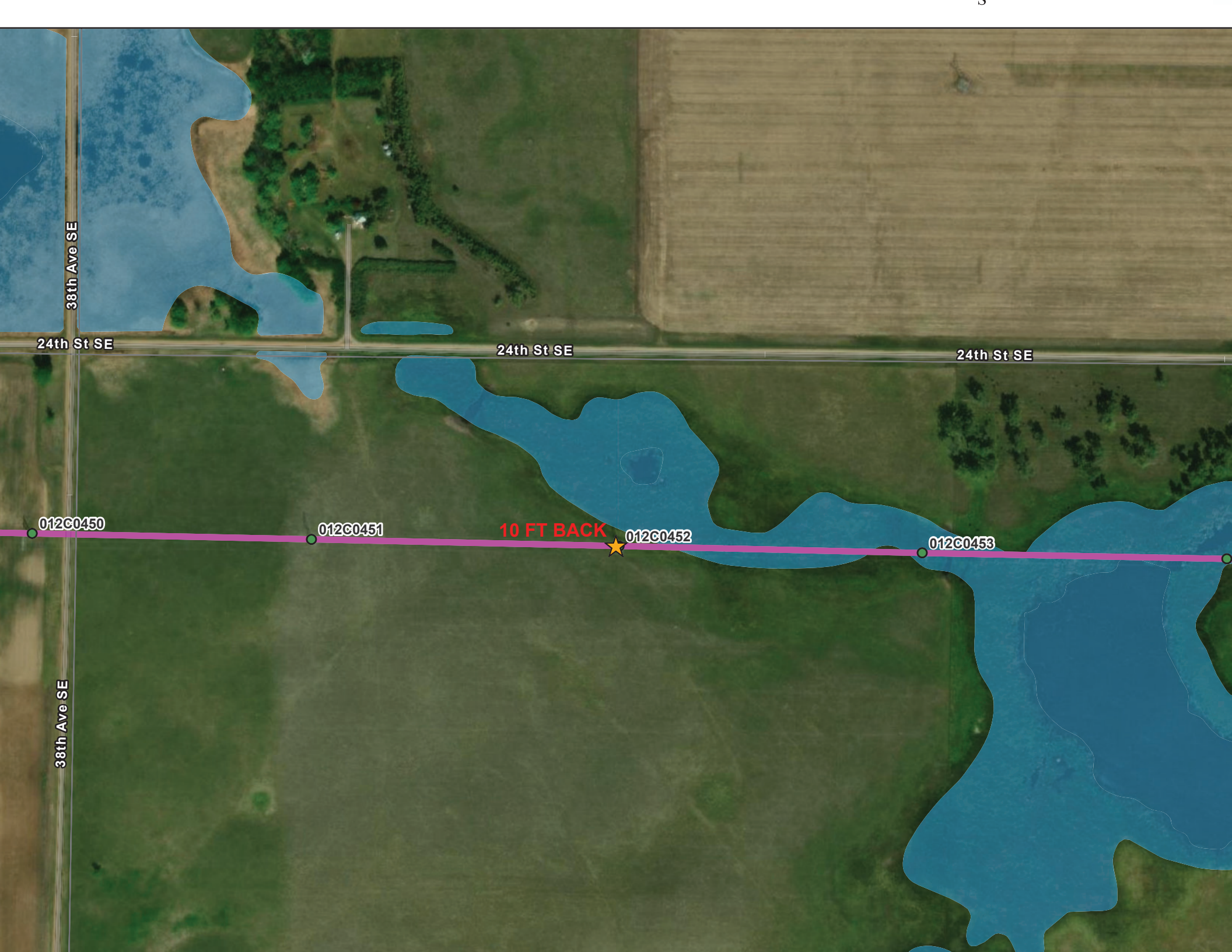
012C0339

10 FT BACK

012C0340

012C0341

ve SE



38th Ave SE

24th St SE

24th St SE

24th St SE

012C0450

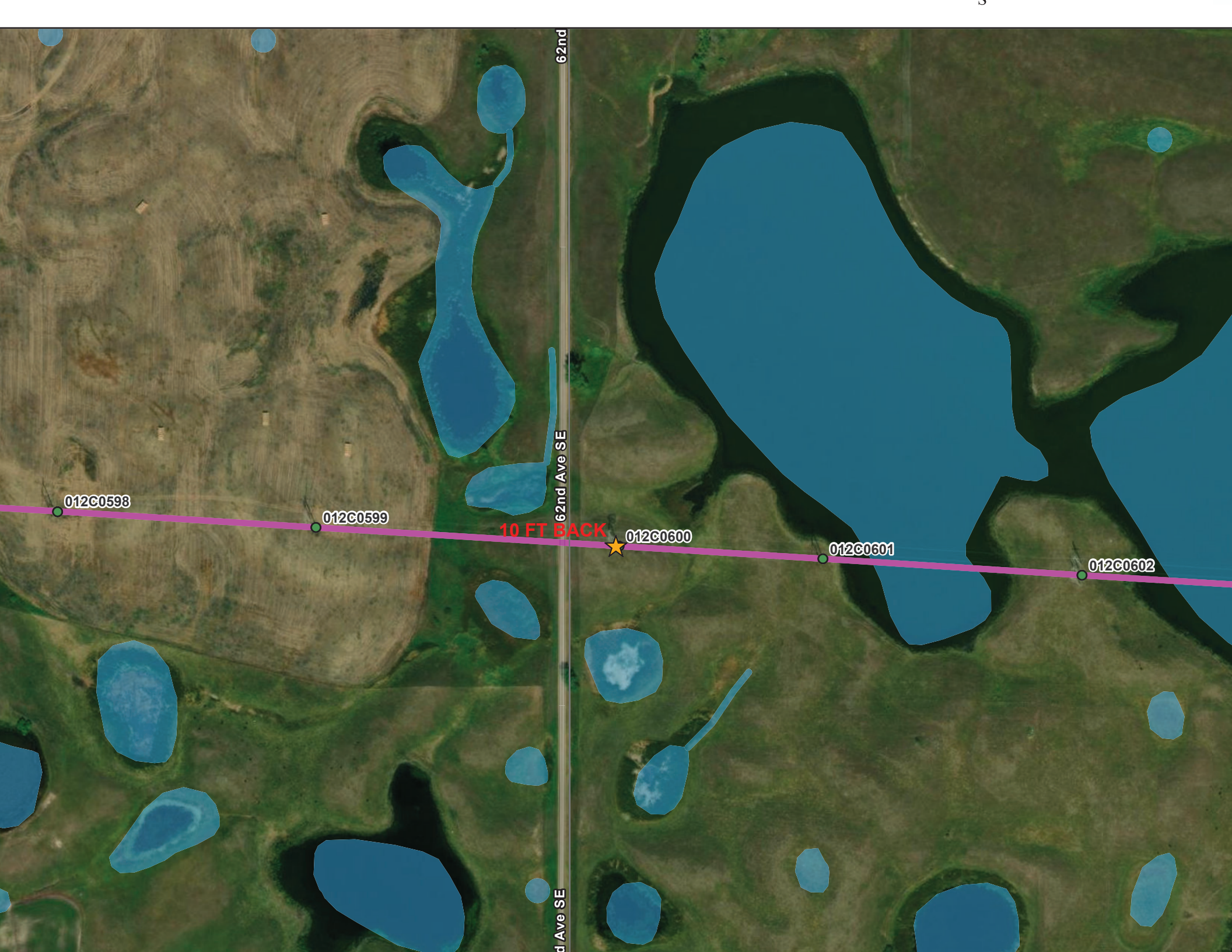
012C0451

10 FT BACK

012C0452

012C0453

38th Ave SE



012C0598

012C0599

10 FT BACK

012C0600

012C0601

012C0602

62nd Ave SE
62nd Ave SE

R67S2

012C0616

012C0617

80 FT BACK

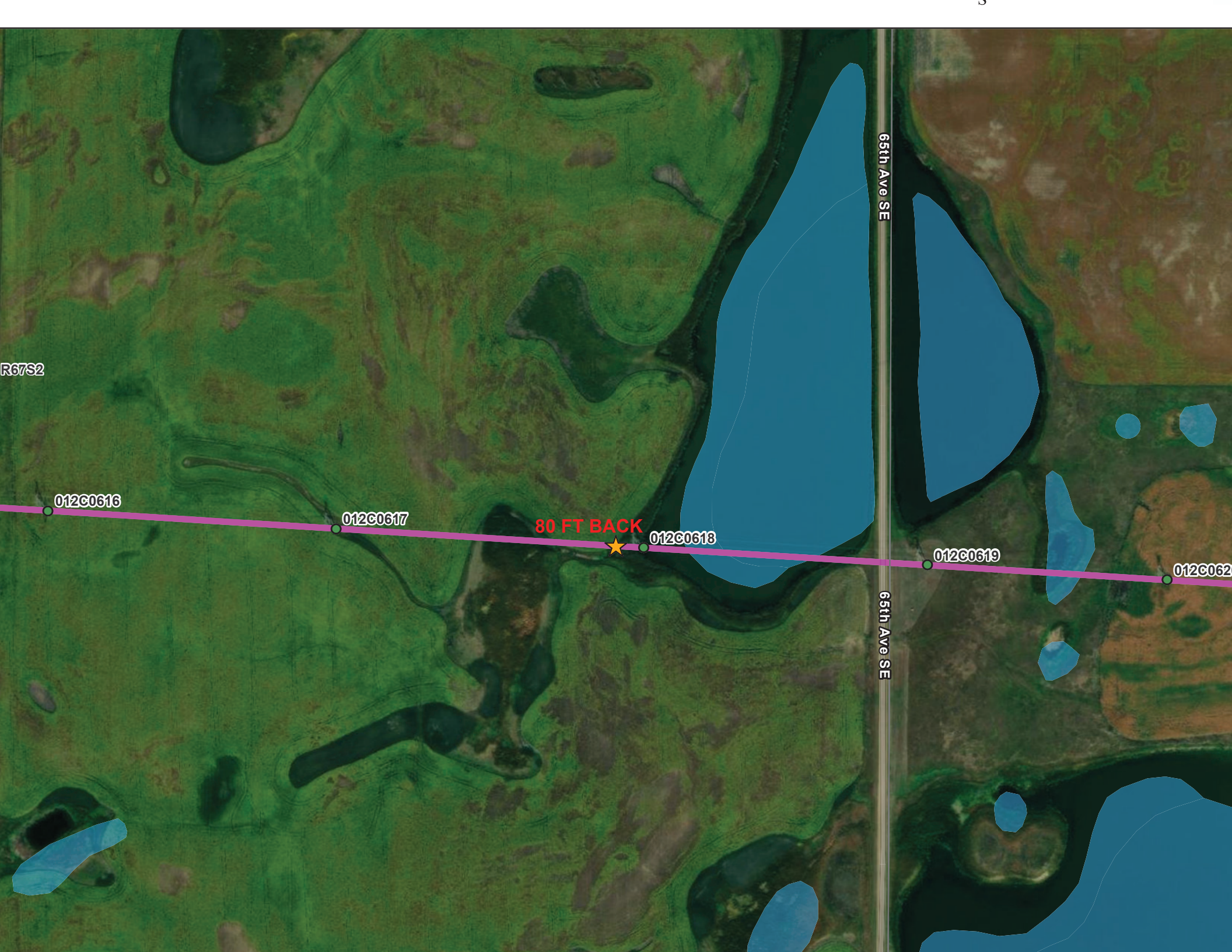
012C0618

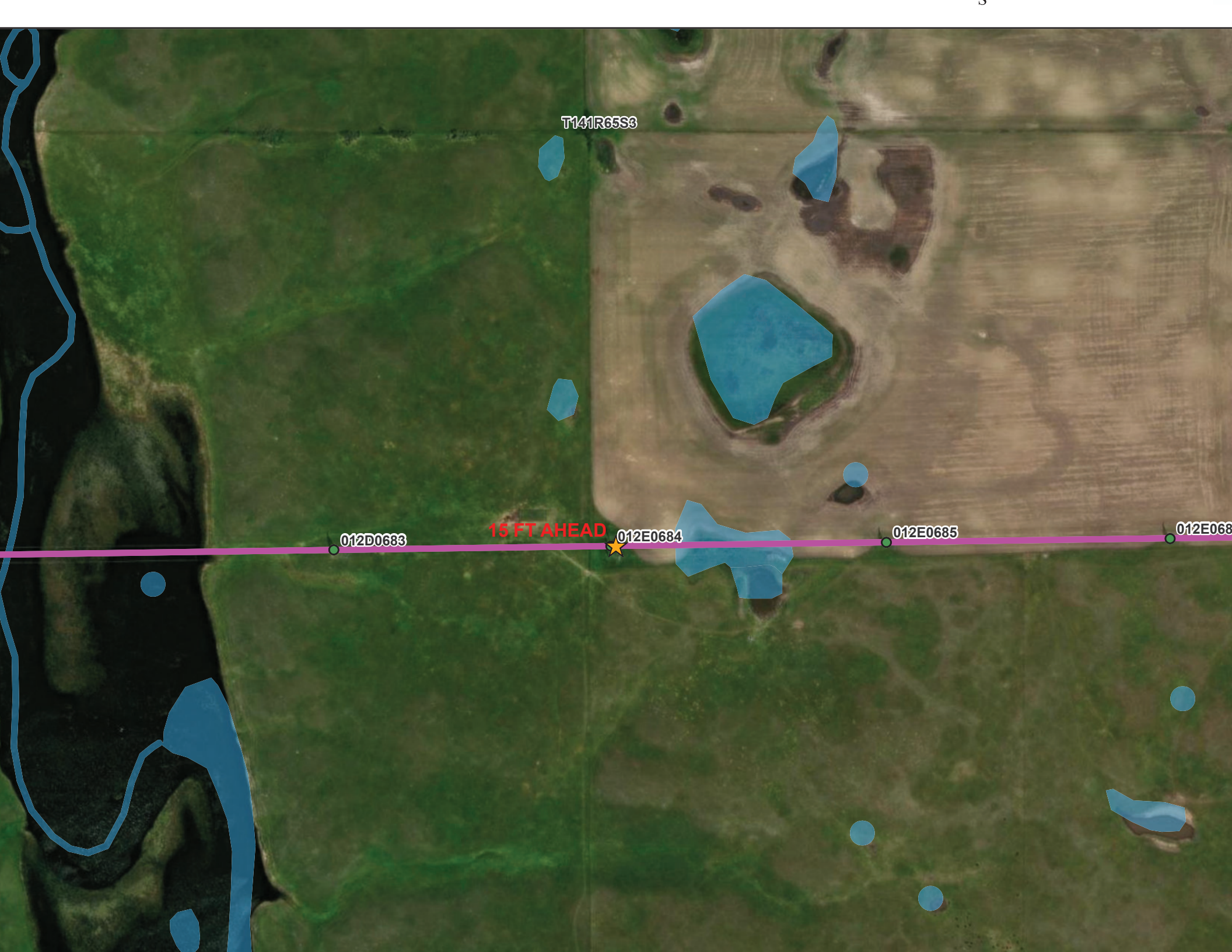
012C0619

012C0620

65th Ave SE

65th Ave SE





T141R65S3

012D0683

15 FT AHEAD

012E0684

012E0685

012E068



012E0697

012E0698

10 FT BACK

012E0699

012E0700

0

78th Ave SE

78th Ave SE



012G0735

84th Ave

012G0736

10 FT BACK

012G0737

012G0738

012G0739

26th St SE

26th St SE

26th St SE



2/22/2024

Rural Development
Rural Utilities Service
1400 Independence
Ave SW, Room 4018
Stop 1570,
Washington, DC,
20250

Bill Peterson
State Historic Preservation Officer
North Dakota State Historic Preservation Office
612 East Boulevard Ave
Bismarck, ND 58505

Voice 202.961.6139

Subject: USDA RD RUS Staff Recommended Finding of No Historic Properties Affected
345kV Line 12 Structure Replacements
Oliver, Burleigh, Kidder, and Stutsman Counties, North Dakota

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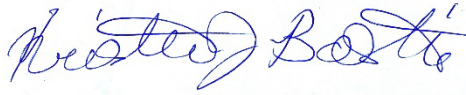
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proceed to the next step in review if we do not receive a response from you within thirty days. Please direct any questions you may have to Kristen Bastis via email at Kristen.Bastis@usda.gov.

Sincerely,

A handwritten signature in blue ink that reads "Kristen Bastis". The signature is written in a cursive style with a blue ink stamp or highlight behind it.

Kristen Bastis, MA
Archeologist
Environmental and Historic Preservation Division
Rural Utilities Service

Enclosure(s): Structure replacement maps
Class I Cultural Resources Literature Review, Line 12 Pole Replacement Project

CC: Kacey Borin, Minnkota Power Cooperative, Inc.



March 20, 2024

Kristen Bastis
Rural Utilities Service, USDA
1400 Independence Ave SW, Room 4018
Stop 1570
Washington, DC 20250

ND SHPO Ref: 24-0153 345 kV Line 12 Structure Replacements Project in portions of Oliver, Burleigh, Kidder, and Stutsman Counties, North Dakota

Dear Kristen,

We've reviewed the project ND SHPO Ref: 24-0153 345 kV Line 12 Structure Replacements Project in portions of Oliver, Burleigh, Kidder, and Stutsman Counties, North Dakota as received by our office on February 22, 2024. Our understanding is that the project is to replace 13 power pole structures in the locations indicated in the February 22, 2024, letter.

We concur with a determination of "No Historic Properties Affected" for the project provided the project takes place as described in the documentation and all borrow comes from an approved source.

Thank you for the opportunity to review this project. For future correspondence regarding this project, please include the ND SHPO Reference number indicated in this letter. If you have any questions, please contact Margie Patton, Research Archaeologist at 701-328-3576 or mmpatton@nd.gov.

Sincerely,

for William D. Peterson, PhD
State Historic Preservation Officer
(North Dakota)

24-0153