

Bowman Wind, LLC
Class III Cultural Resource Inventory
Access Road Project Turning Radii Locations
Bowman County, North Dakota

Project No. ND322001, June 6, 2024

Township 130N, Range 103W, Sections 17, 22, and 27

Township 130N, Range 104W, Section 22

Township 132N, Range 103W, Sections 32, 35, and 36

Township 132N, Range 104W, Section 26

This report contains potentially sensitive cultural resource locational information and is not intended for dissemination.

Prepared For

Bowman Wind, LLC.

Prepared By

Kurt Lanno, MA, Principal Investigator

& Adam Sax, MA

klanno@impact7G.com

Edited By

Corey Yates, MA, RPA, Cultural Department Head

cyates@impact7G.com

Date: 6/6/2024

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1621 Sheridan Lake Rd, Ste. A,
Rapid City, SD 57702
605-388-5309

Class III Cultural Resource Inventory for the Proposed Bowman Wind Project Turning Radii, Bowman County, North Dakota

Abstract

This report presents the results of an intensive Class III Cultural Resources Inventory conducted by Impact7G, Inc. for the proposed Bowman Wind Project within and near Rhame, Bowman County, North Dakota. Based on updates to the transportation plan, additional turning radii areas were needed. The turning radii areas represent temporary road improvements that will allow for trucks carrying turbine blades and bases to navigate turns that are too wide to be on the existing/proposed roads. These improvements will entail blading and the placement of gravel in the proposed locations. This inventory was conducted to determine if cultural resources are present or might be present within the ten proposed turning radii associated with site access roads. The area subject to the intensive Class III cultural resources inventory encompasses approximately 80 acres of road right of way (ROW), agricultural land, and rangeland in Bowman County, North Dakota.

A record search was conducted on May 23, 2024, at the North Dakota State Historical Society revealing 295 previously recorded cultural resources within a one-mile radius of the project areas. Additionally, 24 previously conducted cultural resource inventories have been completed within the same one-mile radius of which four fall within the project areas. One historical architectural site lead (32BOX30) boundary intersects one of the turn areas, but no signs of any structures or structural remains were observed in the area of potential effect (APE) of the proposed project.

The results of the Class III cultural resource inventory showed: 1) the majority of the project areas have been previously disturbed by ditching in the ROW; 2) no National Register of Historic Places (National Register) properties are within the review area; 3) no newly recorded cultural resources were identified; and 4) no sign of the structure associated with architectural site lead 32BOX30 was identified in the APE. Therefore, Impact7G recommends a finding of No Historic Properties Affected, and the proposed project may be completed as planned.

If cultural resources are found during construction activities, it is recommended that work in the immediate area be stopped and the North Dakota State Historic Preservation Office (SHPO) and Impact7G, Inc. be contacted immediately.

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Class III Cultural Resource Inventory for the Proposed Bowman Wind Project Turning Radii, Bowman County, North Dakota

Introduction

This report presents the results of an intensive Class III Cultural Resources Inventory conducted by Impact7G, Inc. for the proposed Bowman Wind Project near Rhame, Bowman County, North Dakota (Table 1 and Figure 1). Based on updates to the transportation plan, additional turning radii areas were needed. The turning radii areas represent temporary road improvements that will allow for trucks carrying turbine blades and bases to navigate turns that are too wide to be on the existing/proposed roads.

This inventory was conducted to determine if cultural resources are present or might be present within the ten proposed turning radii associated with site access roads. The study was completed and reported by Impact7G, Inc. (Impact7G) of Rapid City, South Dakota. The study area encompasses approximately 80 acres of public road right of way (ROW) and privately held range and agricultural land in Bowman County, North Dakota (Figure 1). The proposed expansion will consist of grading the existing ROW, with the addition of fill to widen the road grade and make it accessible for the maneuvering of heavy construction equipment necessary to construct wind turbines.

The Class III inventory for this project is located in a mixture of public ROWs and private property. The project area is split between ten turning radii areas south and east of Rhame in Bowman County, North Dakota. The combined project area totals approximately 80 acres ROW of agricultural land, and rangeland, some of which had been hayed. The inventory of the proposed turning radii areas was conducted on May 24, 2024.

The purpose of a Class III Cultural Resources Inventory is to identify, delineate, and describe cultural resources identified within the defined project areas to ensure National Register of Historic Places (NRHP) eligible sites, or historic properties, are not adversely affected by a specific undertaking. According to the Secretary of the Interior's Guidelines for Identification:

- Intensive survey is most useful when it is necessary to know precisely what historic properties exist in a given area or when information sufficient for later evaluation and treatment decisions is needed on historic properties. Intensive survey describes the distribution of properties in an area; determines the number, location, and condition of properties; determines the types of properties present within the area; permits classification of individual properties; and records the physical extent of specific properties (National Park Service 1983).
- Information contained in this report relating to the nature and location of archaeological sites is considered private, confidential, and not for public disclosure in accordance with Section 304 of the *National Historic Preservation Act* (54 U.S.C. § 307103); 36 CFR Part 800.6 (a)(5) of the Advisory Council on Historic Preservation's rules implementing Sections 106 and 110 of the Act; and Section 9(a) of the *Archaeological Resource Protection Act* (54 U.S.C. § 100707).

Prior Cultural Surveys

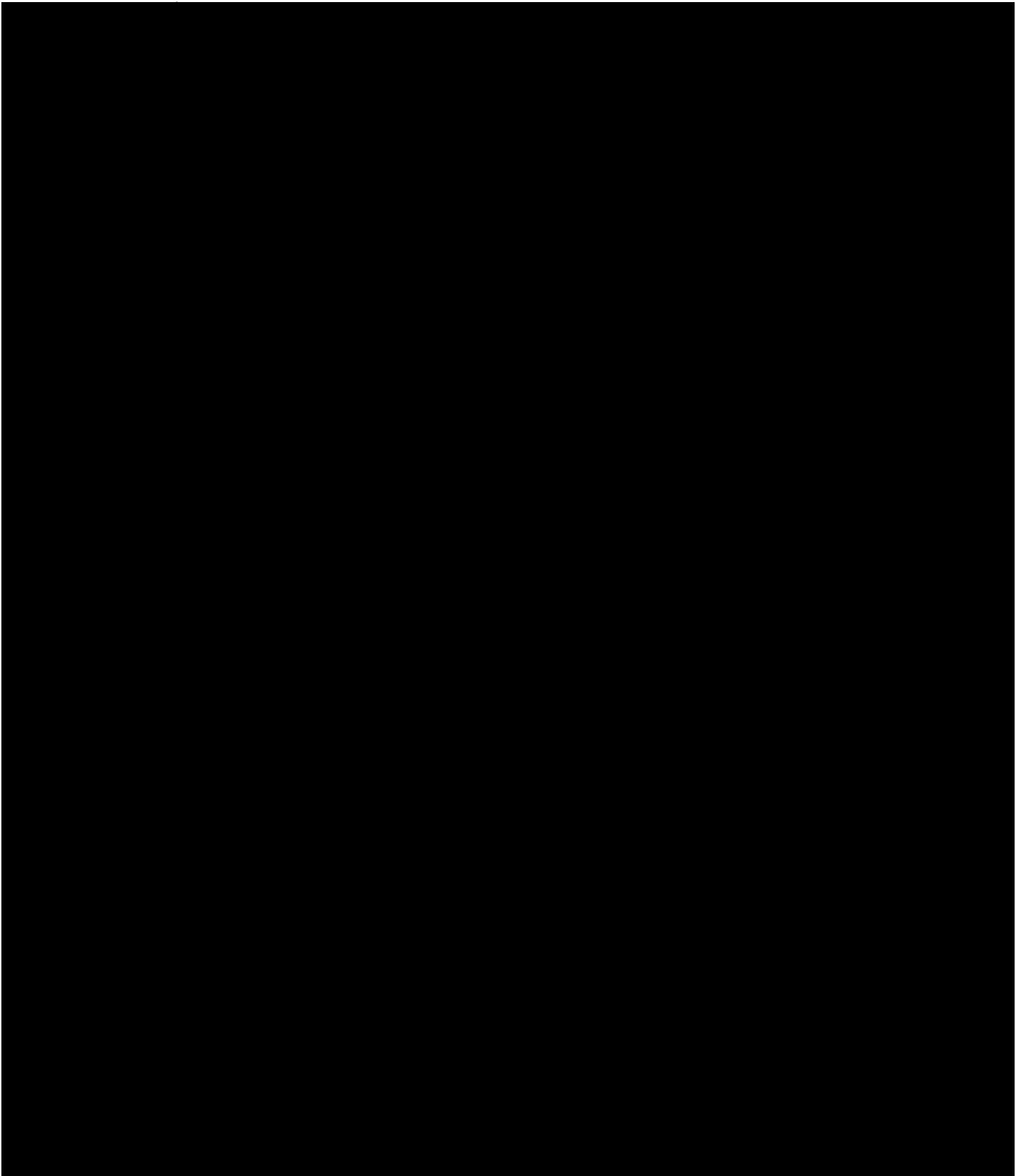
The Bowman Wind Project was previously inventoried by Quality Cultural Resource Services (now Impact7G). Approximately 10 locations occurred outside of previously surveyed cultural corridors (Table 1). Impact7G was retained by Bowman Wind, LLC to conduct archaeological inventories of the proposed turning radii that were not included in the original cultural and historic inventory of the

Class I Cultural Resource Inventory for the Proposed Bowman Wind Project Turning Radii, Bowman County, North Dakota

Bowman Wind Project.

Table 1. Turn Radii Area Locations

Location ID	Turn Radius Location	Township, Section, Range	Figure No.
TR-1	83 rd St. and 152 nd Ave.	T132N, S35, R103W	8
TR-2	83 rd St. and 151 st Ave.	T132N, S26, R104W	9
TR-3	Highway 12 and 151 st Ave.	T132N, S35, R103W	10
TR-4	154 th Ave.	T130N, S17, R103W	11
TR-5	93 rd St. and 154 th Ave.	T130N, S17, R103W	12
TR-6	93 rd St. and 152 nd Ave.	T130N, S22, R103W	13
TR-7	94 th St. and 152 nd Ave.	T130N, S27, R103W	14
TR-8	158 th Ave. SW	T130N, S22, R104W	15
TR-9	Highway 12 and 158 th Ave. SW	T132N, S26, R104W	16
TR-10	Section 32 and 33 Line, T132N, R103W	T132N, S32, R103W	17

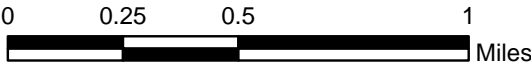


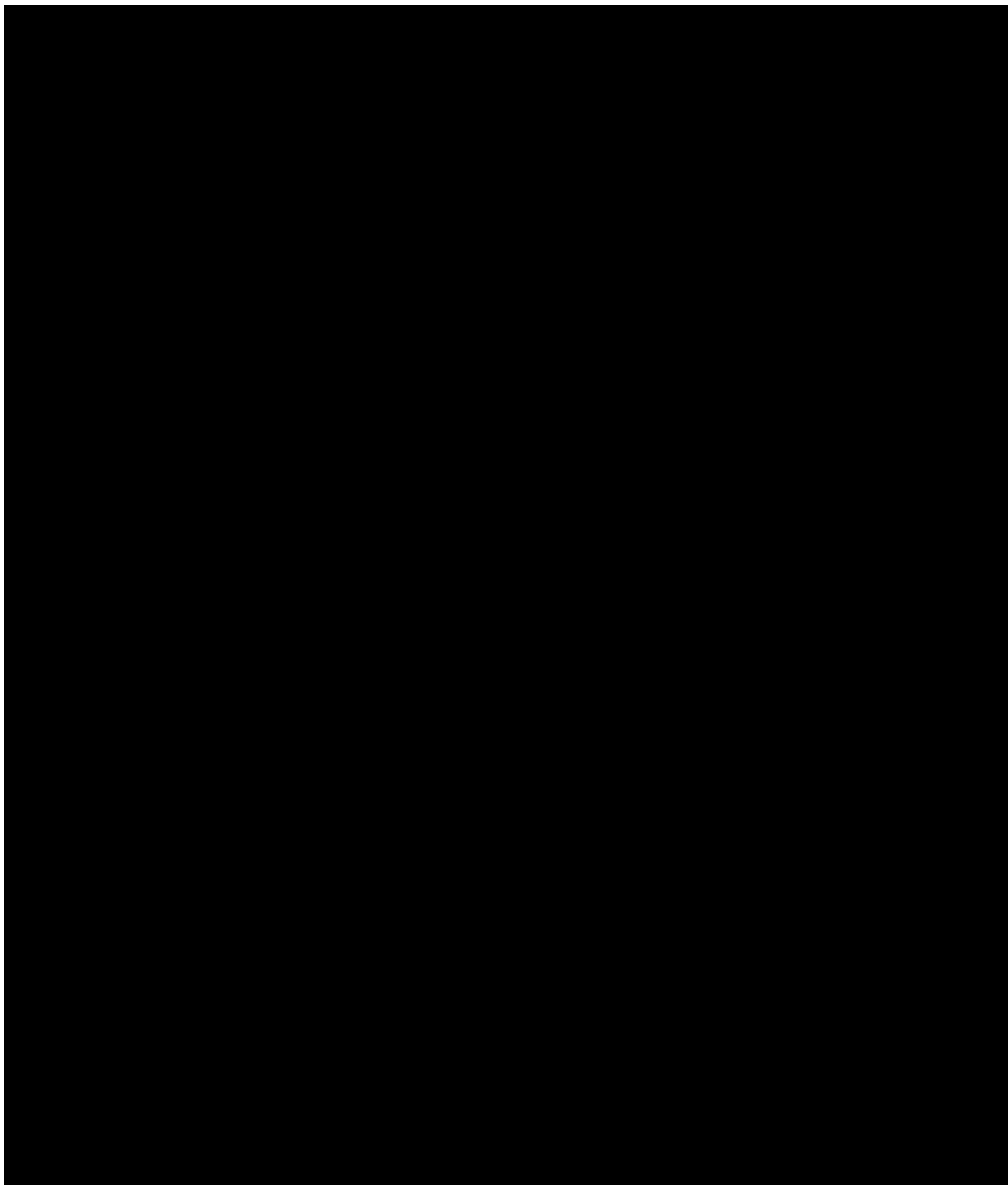
LEGEND

- Project Area
- 1 Mile Record Search

- Historic Property
- Unevaluated Cultural Resource
- Not Eligible Cultural Resource
- Previous Inventory

FIGURE 2





LEGEND

Project Area
1 Mile Record Search

Historic Property

Unevaluated Cultural Resource

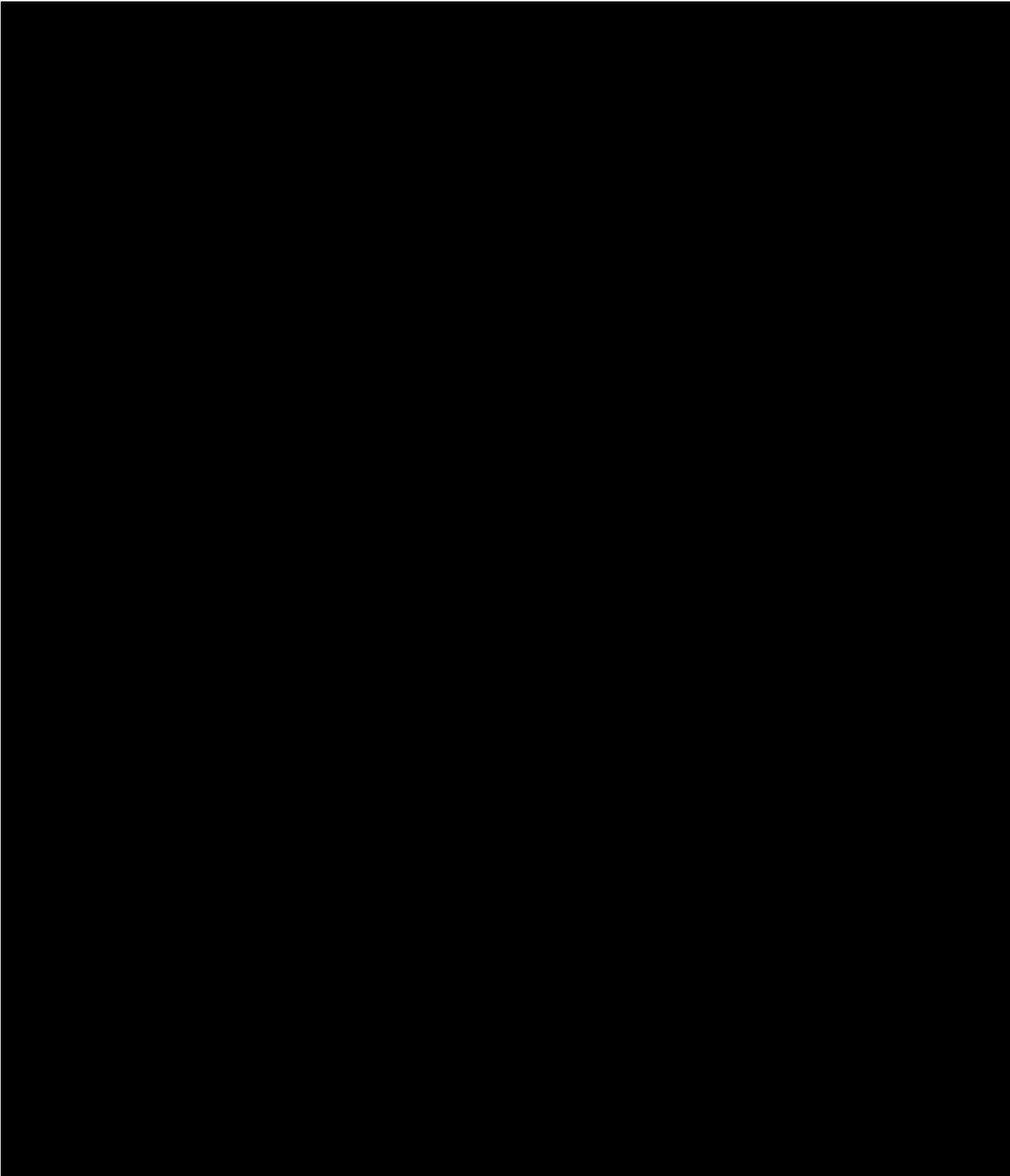
Not Eligible Cultural Resource

Previous Inventory

0 0.25 0.5 1 Miles



FIGURE 3



LEGEND

- Project Area
- 1 Mile Record Search

- Historic Property
- Unevaluated Cultural Resource
- Not Eligible Cultural Resource
- Previous Inventory

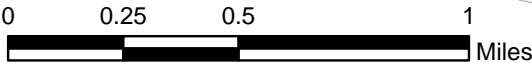
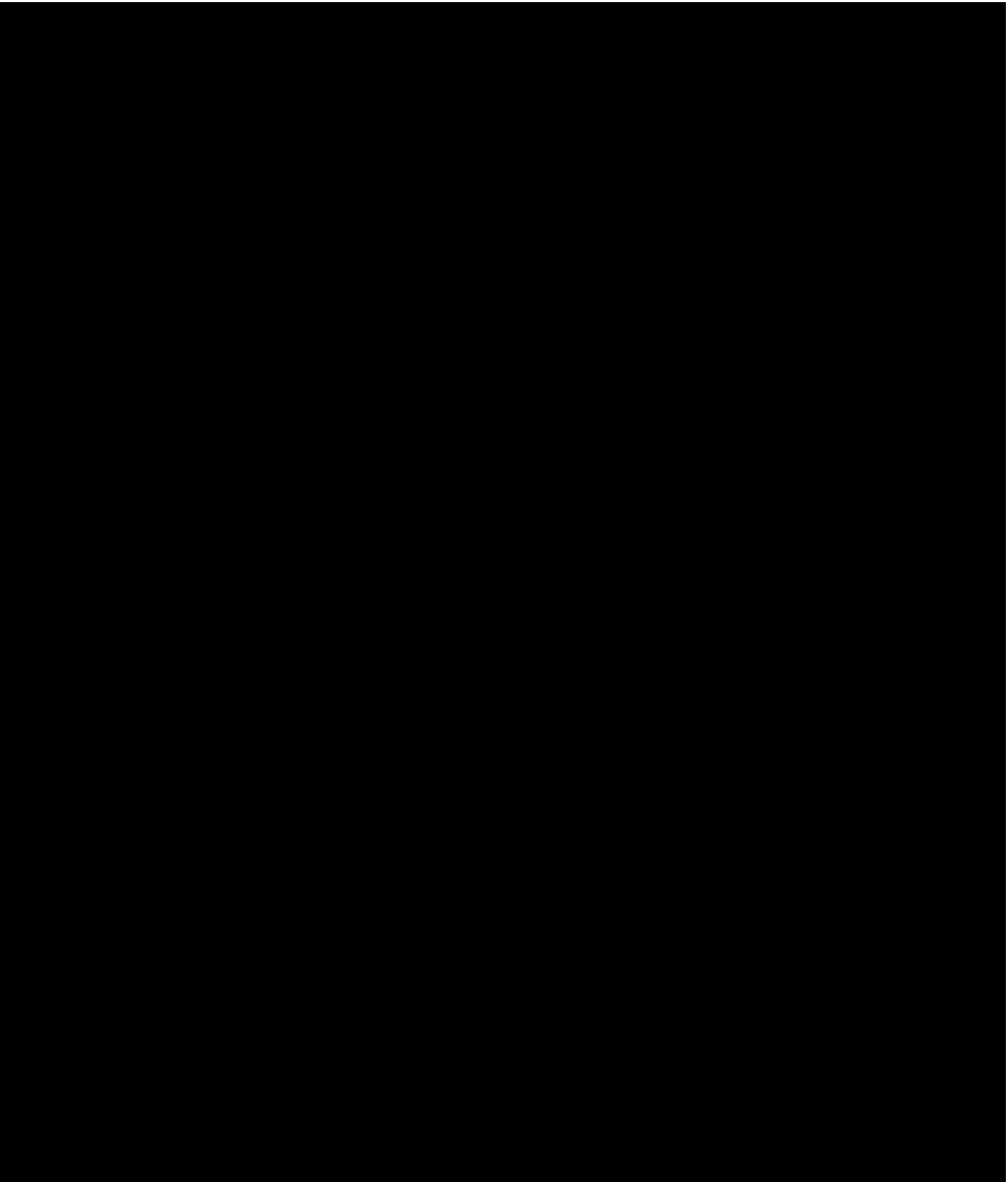


FIGURE 4



LEGEND

- Project Area
- 1 Mile Record Search

- Historic Property
- Unevaluated Cultural Resource
- Not Eligible Cultural Resource
- Previous Inventory

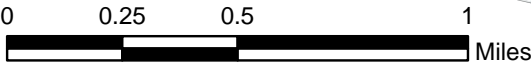
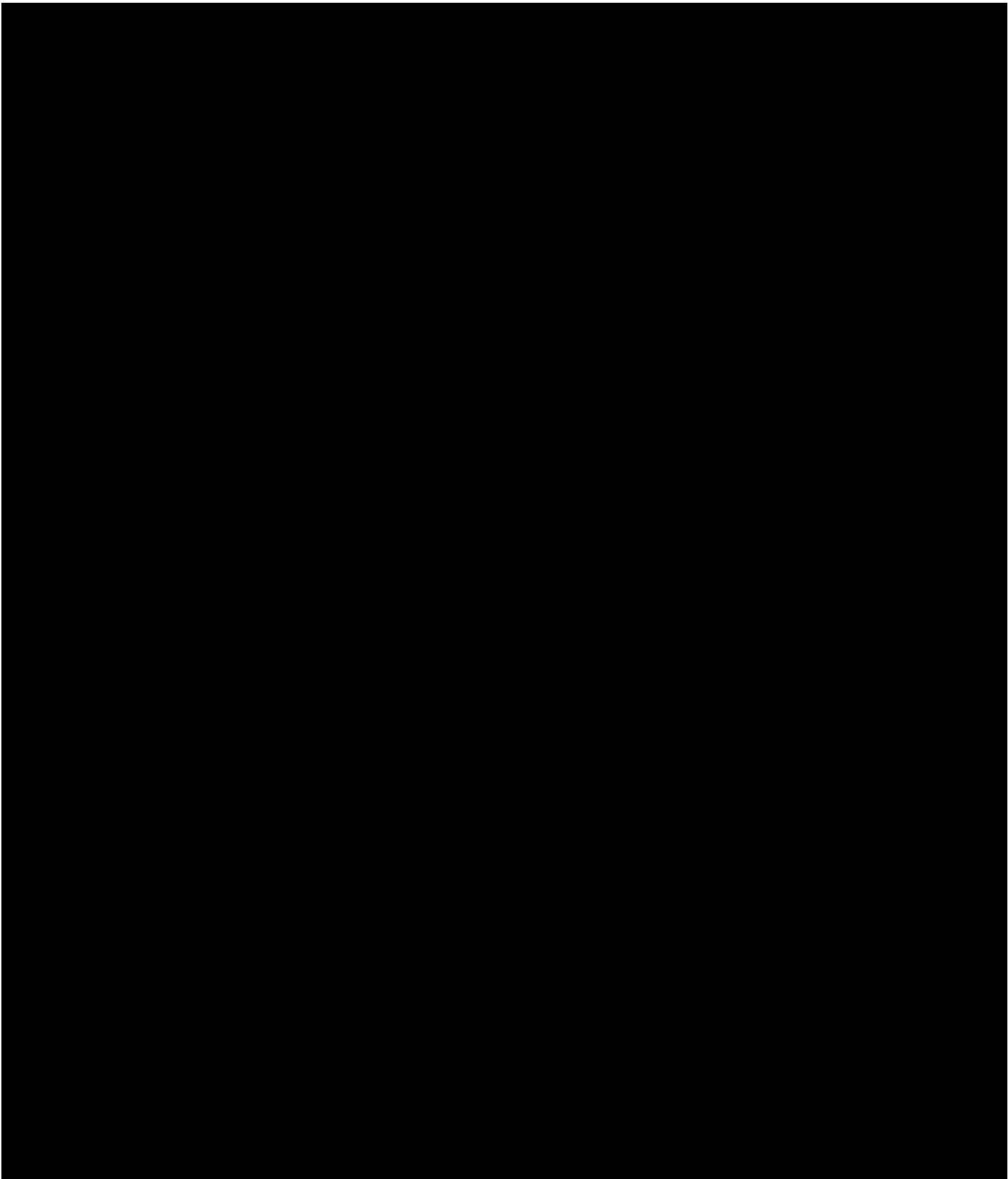


FIGURE 5



LEGEND

- Project Area
- 1 Mile Record Search
- Historic Property

- Unevaluated Cultural Resource
- Not Eligible Cultural Resource
- Structure Area
- Previous Inventory

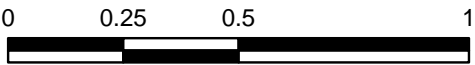
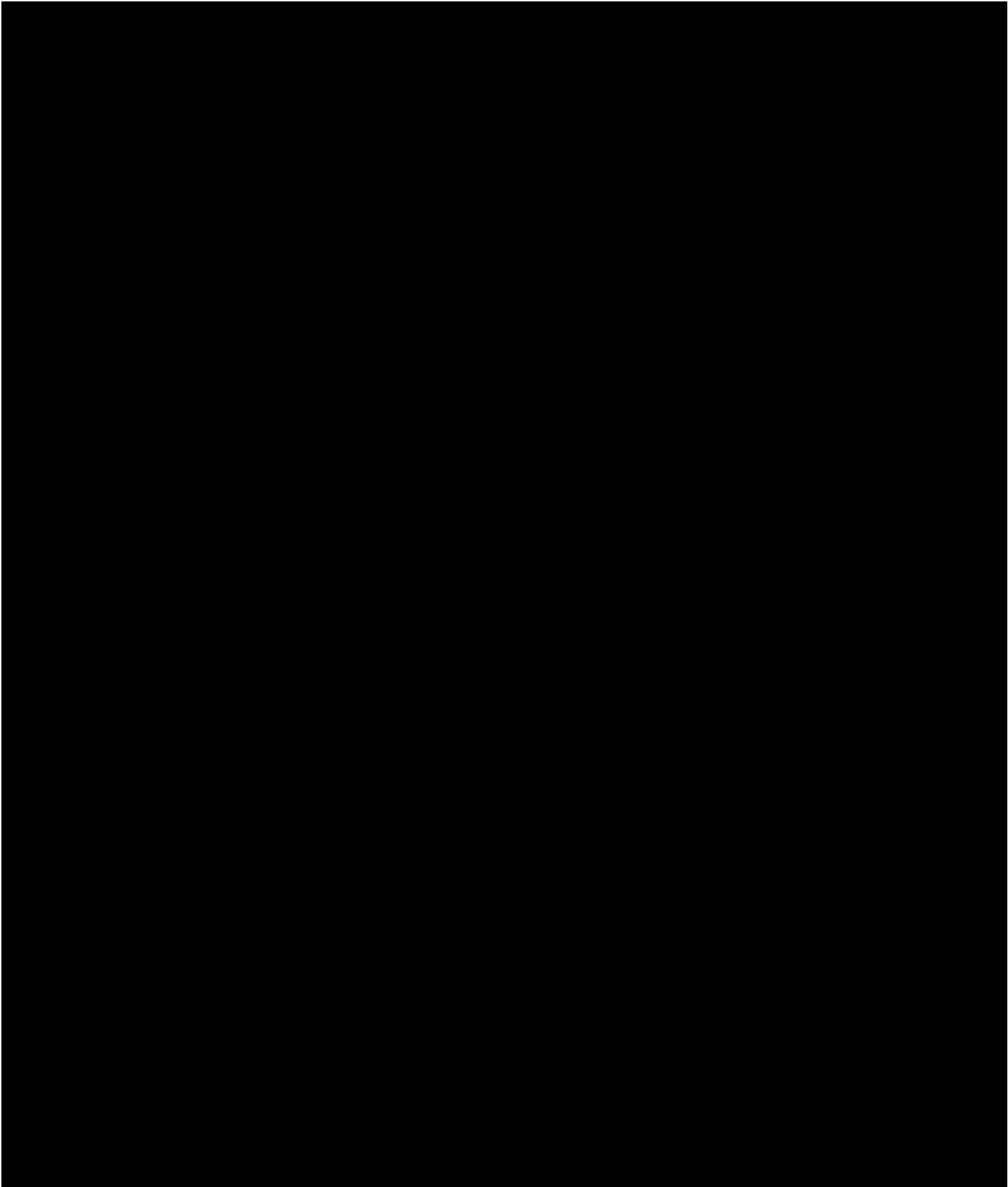


FIGURE 6



LEGEND

- Project Area
- 1 Mile Record Search

- Historic Property
- Unevaluated Cultural Resource
- Not Eligible Cultural Resource
- Previous Inventory

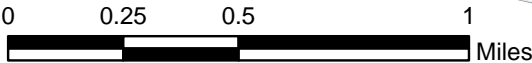


FIGURE 7



TR-1 Aerial Map

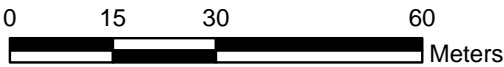
T132N, R103W, Sections 26, 35



LEGEND

Inventory Area

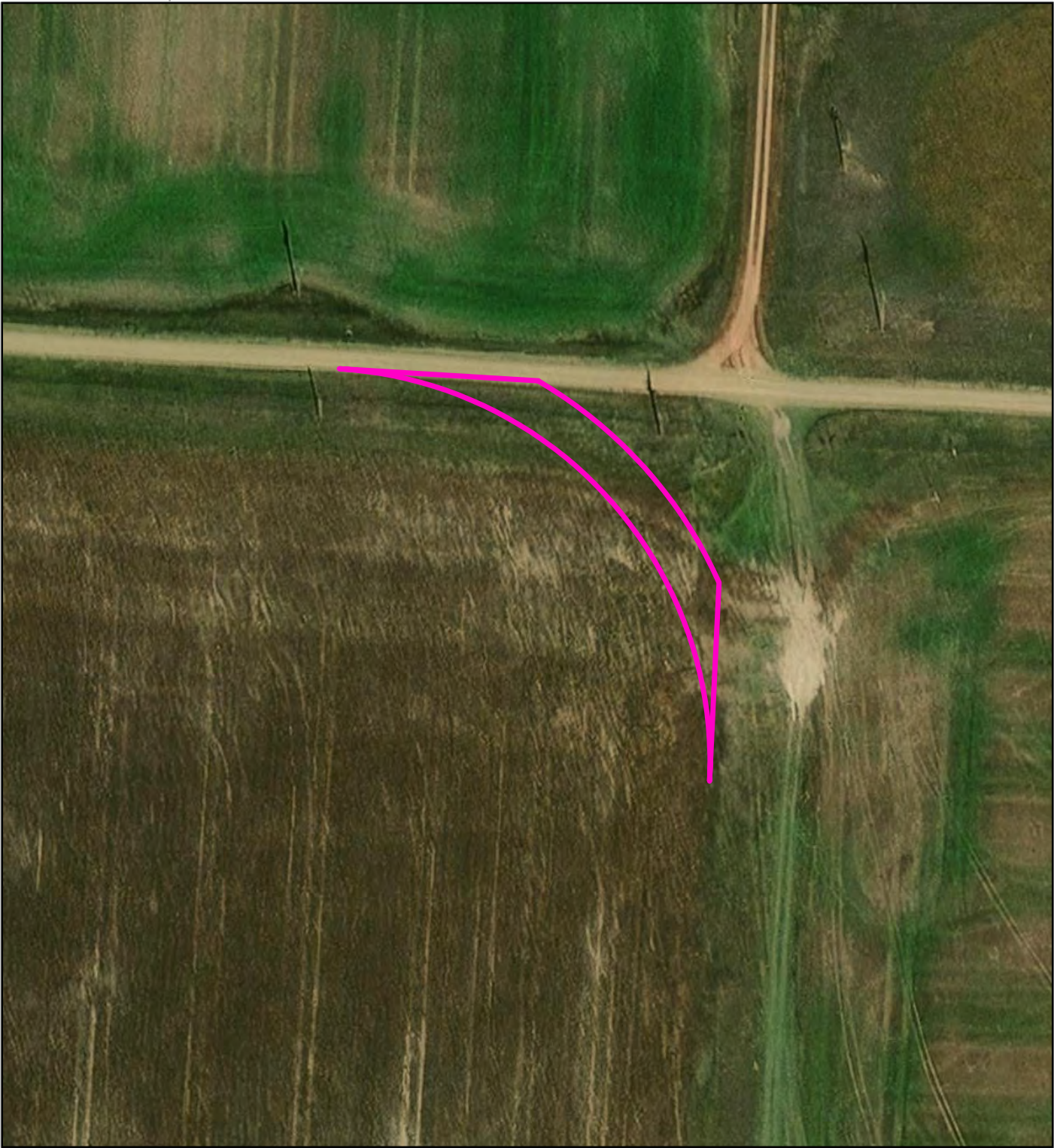
FIGURE 8





TR-2 Aerial Map

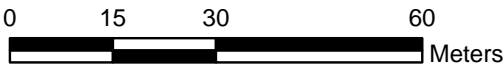
T132N, R103W, Sections 26, 35



LEGEND

Inventory Area

FIGURE 9





TR-3 Aerial Map

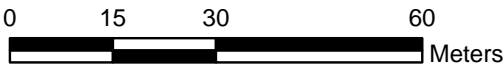
T132N, R103W, Sections 35, 36



LEGEND

Inventory Area

FIGURE 10





TR-4 Aerial Map

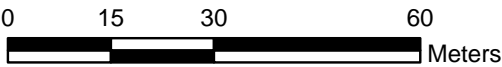
T130N, R103W, Section 17



LEGEND

Inventory Area

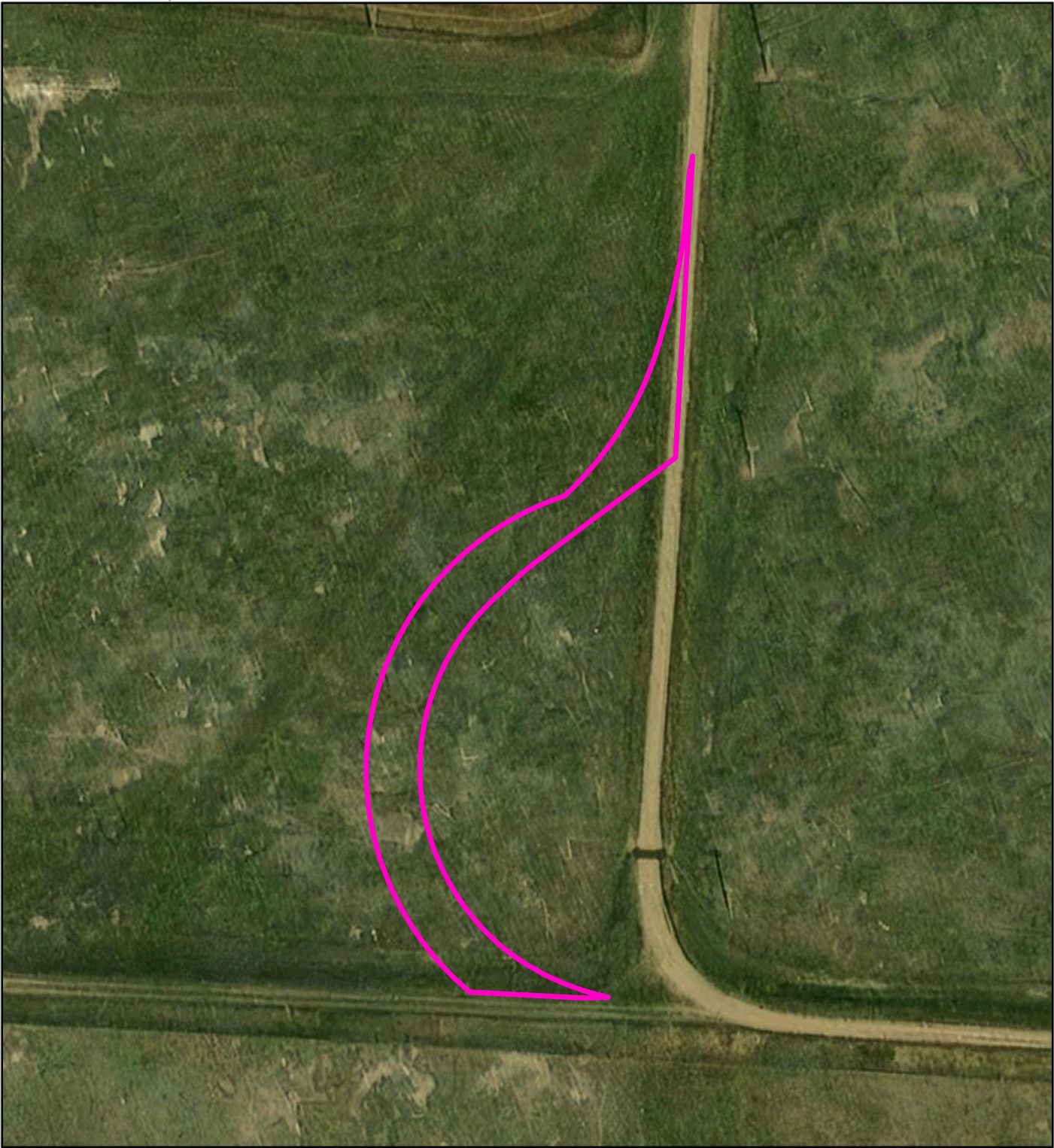
FIGURE 11





TR-5 Aerial Map

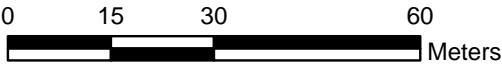
T130N, R103W, Section 17



LEGEND

Inventory Area

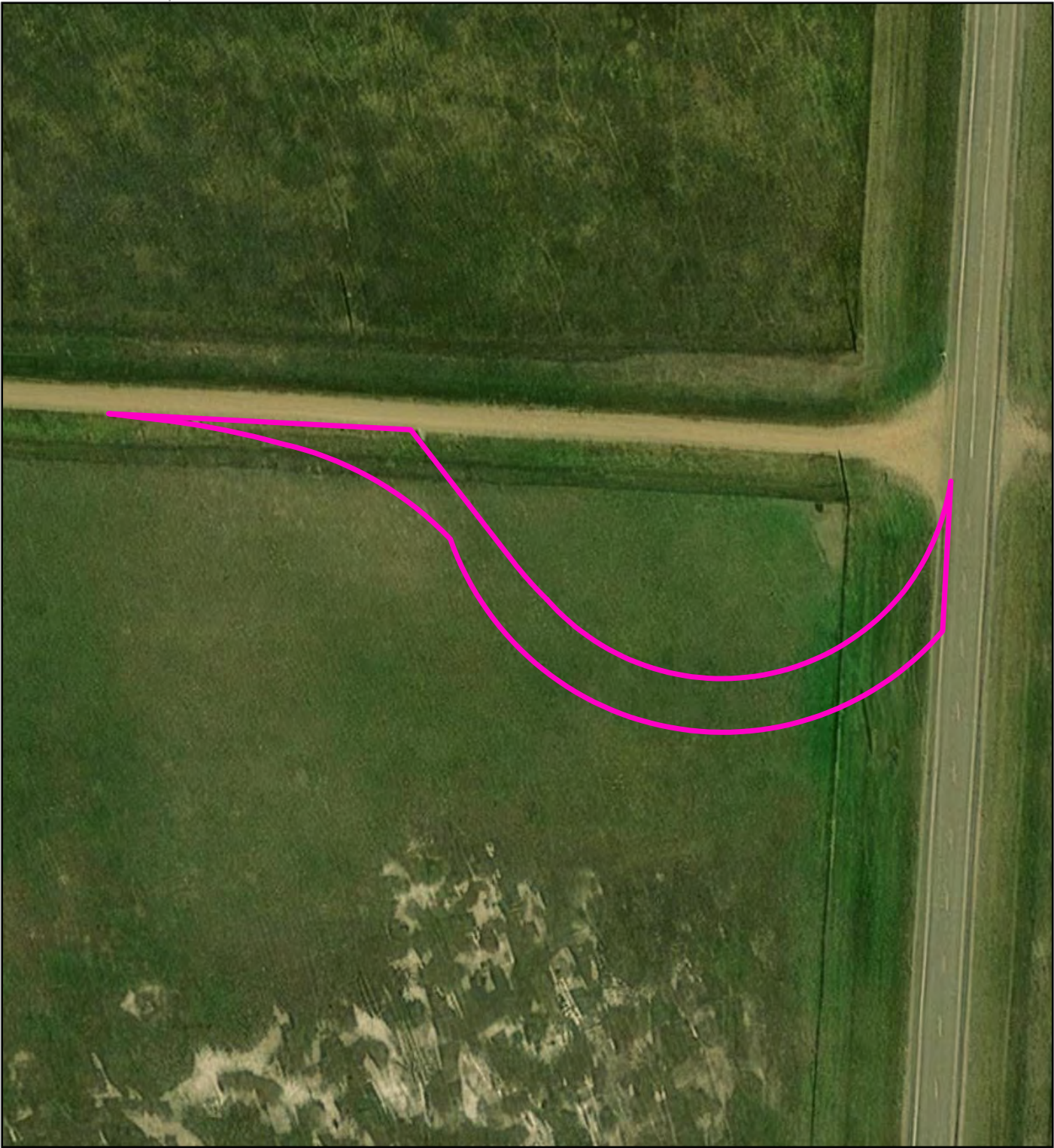
FIGURE 12





TR-6 Aerial Map

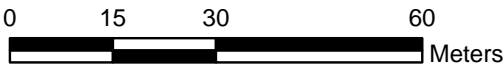
T130N, R103W, Sections 15, 22



LEGEND

Inventory Area

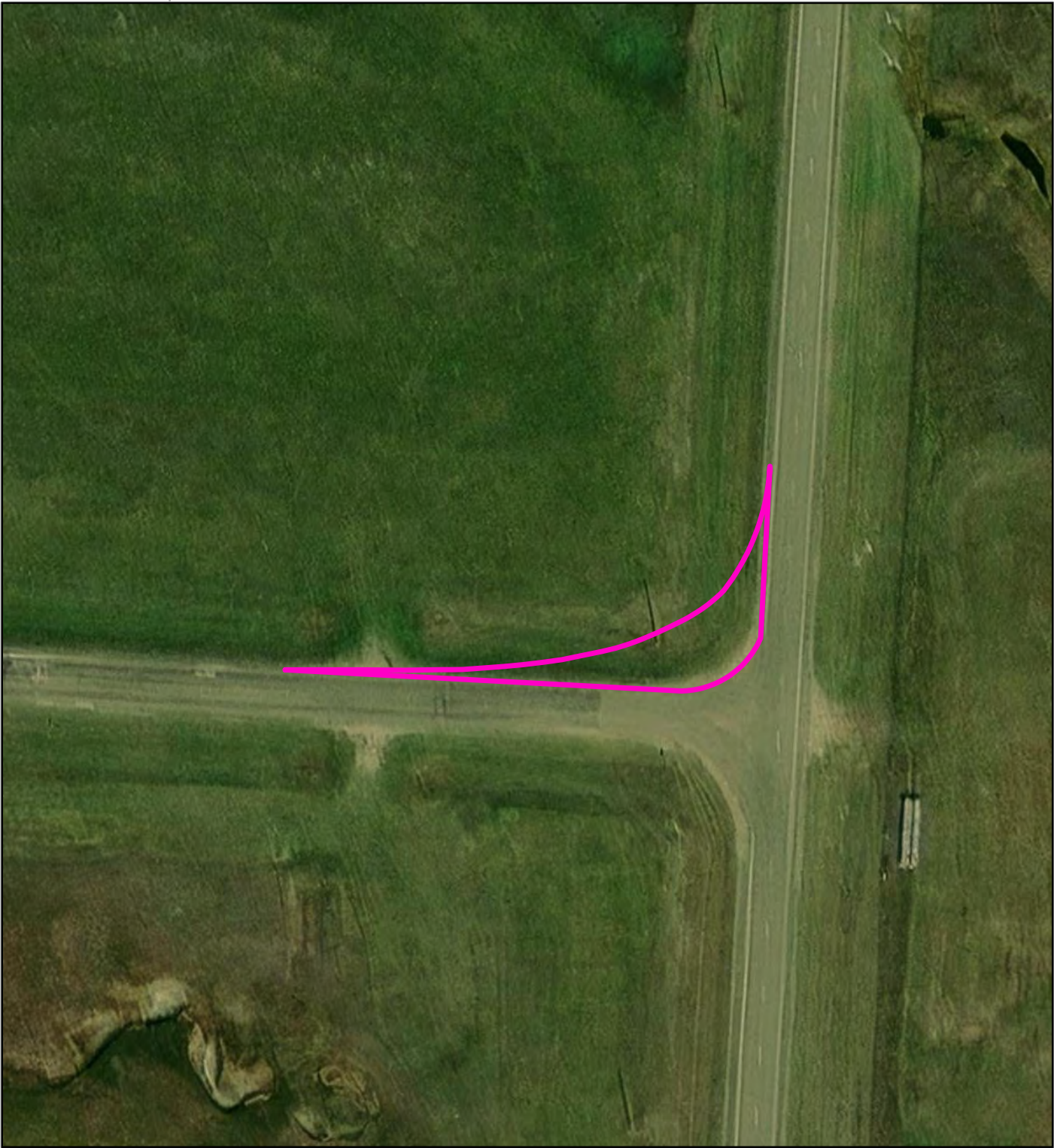
FIGURE 13





TR-7 Aerial Map

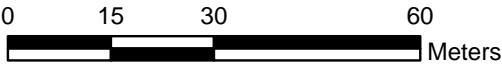
T130N, R103W, Section 27



LEGEND

Inventory Area

FIGURE 14





TR-8 Aerial Map

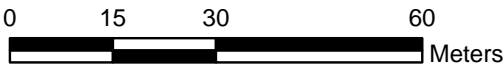
T130N, R104W, Section 22

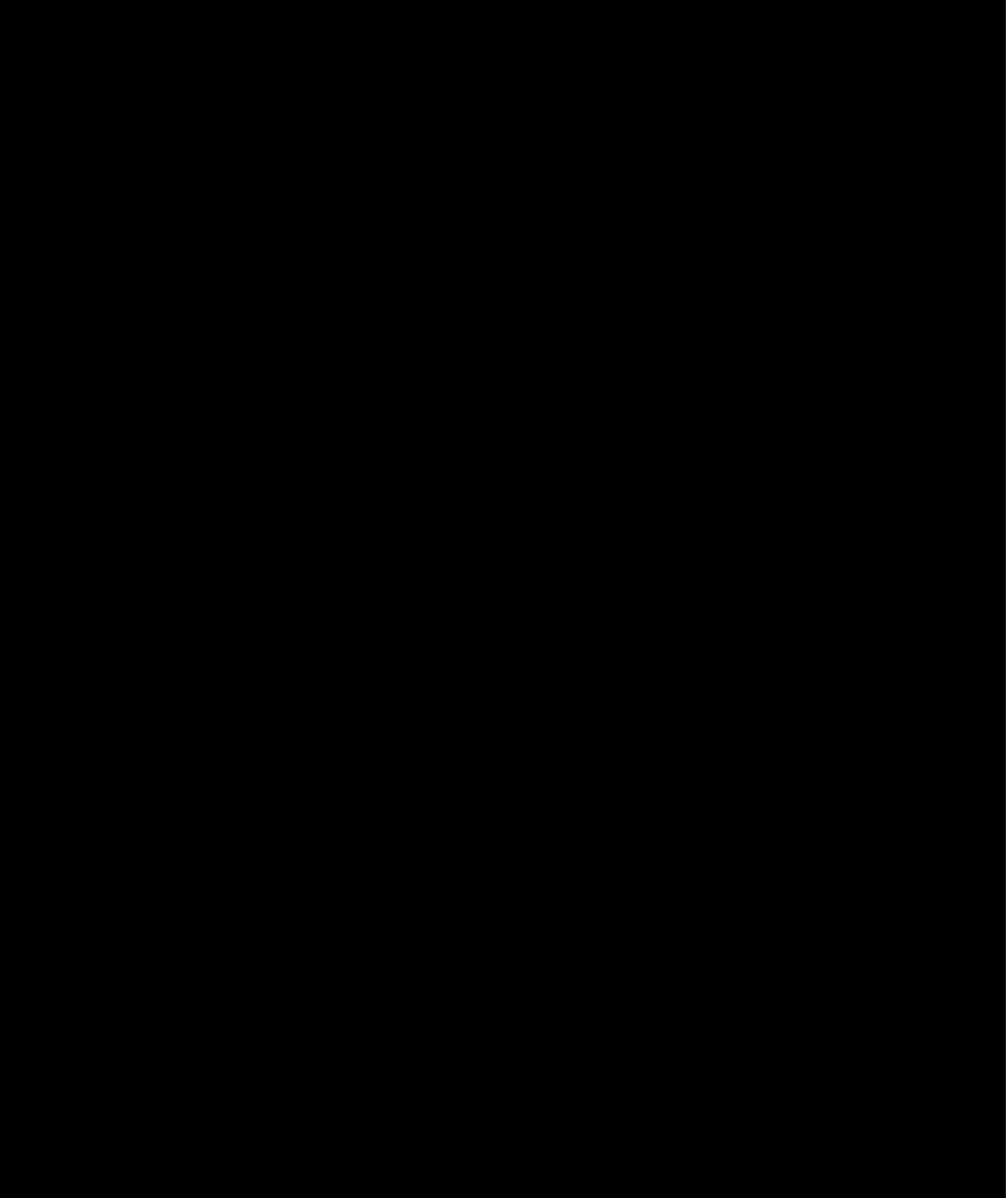


LEGEND

Inventory Area

FIGURE 15





LEGEND

- Inventory Area
- Unevaluated Cultural Resource

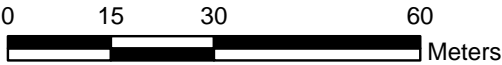


FIGURE 16



TR-10 Aerial Map

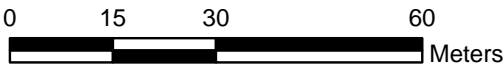
T132N, R103W, Section 32



LEGEND

- Inventory Area
- Negative Subsurface Test

FIGURE 17



Class I III Cultural Resource Inventory for the Proposed Bowman Wind Project Turning Radii, Bowman County, North Dakota

Site Records Data

Impact 7G, Inc. Archeologists Kurt Lanno and Adam Sax conducted a records search for previously conducted inventories and previously recorded cultural resources at the North Dakota State Historic Society on May 23, 2024. The National Register of Historic Places (NRHP) and National Historic Landmark online databases were also checked. Of the numerous cultural resources in the 1 mile records search, only unevaluated architectural site lead 32BOX30 falls within the APE.

Table 2. Summary of Previously Recorded Archaeological Sites within 1 mile of Review Area.

Site	Resource Type/ Description	NRHP Eligibility
32BO00003	Archeological Resource - Cultural Material Scatter, Stone Circle	Unevaluated
32BO00004	Archeological Resource - Cairn, Stone Circle	Unevaluated
32BO00099	Historical Architectural Resource - Bunkhouse	Not Eligible
32BO00163	Historical Architectural Resource - [REDACTED]	Unevaluated
32BO00190	Archeological Resource - Cultural Material Scatter	Unevaluated
32BO00258	Historical Architectural Resource - [REDACTED]	Unevaluated
32BO00348	Historical Resource - Cultural Material Scatter, Homestead	Unevaluated
32BO00349	Historical Resource - Cultural Material Scatter	Unevaluated
32BO00350	Historical Resource - Foundation	Unevaluated
32BO00900	Historical Architectural Resource - [REDACTED]	Unevaluated
32BO00934	Historical Architectural Resource - Chad Njos Farm	Not Eligible
32BO00935	Historical Architectural Resource - Farmstead	Not Eligible
32BO00938	Historical Architectural Resource - [REDACTED]	Eligible
32BO00943	Historical Architectural Resource - Bethany Lutheran Church	Not Eligible
32BO00990	Historical Architectural Resource - Waterhole	Not Eligible

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Site	Resource Type/ Description	NRHP Eligibility
32BO00991	Historical Architectural Resource - Munson'S Bar	Not Eligible
32BO00992	Historical Architectural Resource - Bank Building	Not Eligible
32BO00993	Historical Architectural Resource - Rhame Fire Hall	Not Eligible
32BO00994	Historical Architectural Resource - Workshop	Eligible
32BO00995	Historical Architectural Resource - Fullerton Lumber Yard	Not Eligible
32BO00996	Historical Architectural Resource - Hanson'S Blacksmith Shop	Not Eligible
32BO00997	Historical Architectural Resource - Gas Station	Eligible
32BO00998	Historical Architectural Resource - Farmstead	Not Eligible
32BO00999	Historical Architectural Resource - House	Not Eligible
32BO01000	Historical Architectural Resource - House	Not Eligible
32BO01001	Historical Architectural Resource - House	Not Eligible
32BO01002	Historical Architectural Resource - House	Eligible
32BO01003	Historical Architectural Resource - [REDACTED]	Eligible
32BO01004	Historical Architectural Resource - House	Not Eligible
32BO01005	Historical Architectural Resource - House	Not Eligible
32BO01006	Historical Architectural Resource - House	Not Eligible
32BO01007	Historical Architectural Resource - House	Not Eligible
32BO01008	Historical Architectural Resource - House	Not Eligible
32BO01009	Historical Architectural Resource - House	Eligible
32BO01010	Historical Architectural Resource - House	Eligible
32BO01011	Historical Architectural Resource - House	Eligible

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Site	Resource Type/ Description	NRHP Eligibility
32BO01012	Historical Architectural Resource - House	Not Eligible
32BO01013	Historical Architectural Resource - House	Not Eligible
32BO01014	Historical Architectural Resource - First Lutheran Church	Not Eligible
32BO01015	Historical Architectural Resource - [REDACTED]	Eligible
32BO01016	Historical Architectural Resource - House	Not Eligible
32BO01017	Historical Architectural Resource - House	Not Eligible
32BO01018	Historical Architectural Resource - House	Not Eligible
32BO01019	Historical Architectural Resource - House	Not Eligible
32BO01020	Historical Architectural Resource - House	Not Eligible
32BO01021	Historical Architectural Resource - House	Not Eligible
32BO01022	Historical Architectural Resource - House	Not Eligible
32BO01023	Historical Architectural Resource - House	Not Eligible
32BO01024	Historical Architectural Resource - House	Not Eligible
32BO01025	Historical Architectural Resource - House	Not Eligible
32BO01026	Historical Architectural Resource - House	Not Eligible
32BO01027	Historical Architectural Resource - House	Not Eligible
32BO01028	Historical Architectural Resource - House	Not Eligible
32BO01032	Historical Architectural Resource - Homestead	Not Eligible
32BO01033	Historical Architectural Resource - House	Not Eligible
32BO01034	Historical Architectural Resource - House	Not Eligible
32BO01035	Historical Architectural Resource - House	Not Eligible
32BO01036	Historical Architectural Resource - House	Not Eligible

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Site	Resource Type/ Description	NRHP Eligibility
32BO01039	Archeological Resource - Cairn	Unevaluated
32BO01042	Archeological Resource - Stone Spiral	Eligible
32BO01043	Archeological Resource - Stone Circle	Eligible
32BO01044	Archeological Resource - Cairn, Cultural Material Scatter, Stone Circle, Stone Feature	Unevaluated
32BO01046	Historical and Archeological Resource - Cairn, Cultural Material Scatter, Rock Shelter	Unevaluated
32BO01048	Archeological Resource - Cairn	Unevaluated
32BO01051	Archeological Resource - Stone Circle	Unevaluated
32BO01052	Archeological Resource - Cairn	Unevaluated
32BO01053	Archeological Resource - Stone Circle	Unevaluated
32BO01060	Archeological Resource - Stone Circle, Stone Feature	Unevaluated
32BO01061	Archeological Resource - Cairn	Unevaluated
32BO01064	Historical and Archeological Resource - LS12, LS13, RW10	Not Eligible
32BO01065	Historical and Archeological Resource - Cairn, Glass	Not Eligible
32BO01066	Archeological Resource - Stone Circle	Eligible
32BO01071	Historical and Archeological Resource - Cultural Material Scatter	Unevaluated
32BO01072	Archeological Resource - Cairn, Stone Circle	Unevaluated
32BO01073	Archeological Resource - Stone Circle	Unevaluated
32BO01074	Archeological Resource - Cairn	Unevaluated
32BO01075	Archeological Resource - Cairn	Unevaluated

Class I Cultural Resource Inventory for the Proposed Bowman Wind Project Turning Radii, Bowman County, North Dakota

Site	Resource Type/ Description	NRHP Eligibility
32BO01076	Archeological Resource - Cairn	Unevaluated
32BO01079	Archeological Resource - Cairn, Stone Circle, Stone Feature	Unevaluated
32BO01080	Historical and Archeological Resource - Cultural Material Scatter, Glass	Unevaluated
32BO01081	Archeological Resource - Cairn, Stone Circle	Unevaluated
32BO01090	Archeological Resource - Cairn	Eligible
32BO01091	Archeological Resource - Cairn	Unevaluated
32BO01092	Archeological Resource - Cairn	Eligible
32BO01093	Archeological Resource - Cairn, Stone Circle, Stone Feature	Unevaluated
32BO01094	Archeological Resource - Stone Circle	Unevaluated
32BO01099	Archeological Resource - Rock Art, Stone Circle	Unevaluated
32BO01102	Archeological Resource - Cairn	Unevaluated
32BO01103	Archeological Resource - Stone Circle	Unevaluated
32BO01104	Archeological Resource - [REDACTED]	Unevaluated
32BO01105	Archeological Resource - Cairn	Unevaluated
32BO01106	Archeological Resource - Stone Circle, Stone Feature	Unevaluated
32BO01107	Archeological Resource - Stone Circle	Unevaluated
32BO01112	Archeological Resource - Cairn	Unevaluated
32BO01113	Archeological Resource - Cairn	Eligible
32BO01114	Archeological Resource - Stone Circle	Unevaluated
32BO01115	Archeological Resource - Stone Feature	Unevaluated
32BO01116	Archeological Resource - Stone Feature	Unevaluated

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Site	Resource Type/ Description	NRHP Eligibility
32BO01117	Archeological Resource - Cairn, Cultural Material Scatter, Stone Circle, Stone Feature	Unevaluated
32BO01118	Archeological Resource - Stone Circle	Unevaluated
32BO01119	Archeological Resource - Cairn	Unevaluated
32BO01120	Archeological Resource - Cairn, Stone Circle	Unevaluated
32BO01121	Archeological Resource - Cairn, Cultural Material Scatter	Eligible
32BO01123	Archeological Resource - Stone Circle	Unevaluated
32BO01124	Archeological Resource - Cultural Material Scatter, Stone Circle	Eligible
32BO01125	Archeological Resource - Cairn	Eligible
32BO01126	Archeological Resource - Cairn, Stone Circle	Eligible
32BO01129	Archeological Resource - Stone Circle	Eligible
32BO01130	Archeological Resource - Cairn, Cultural Material Scatter, Stone Feature	Eligible
32BO01131	Archeological Resource - Cairn, Cultural Material Scatter	Unevaluated
32BO01132	Archeological Resource - Stone Circle	Unevaluated
32BO01133	Historical and Archeological Resource - Cairn, Cultural Material Scatter, Stone Circle	Unevaluated
32BO01143	Archeological Resource - Cultural Material Scatter	Not Eligible
32BO01146	Archeological Resource - Cultural Material Scatter	Unevaluated
32BO01151	Archeological Resource - Cultural Material Scatter	Not Eligible
32BO01152	Archeological Resource - Cultural Material Scatter	Unevaluated
32BO01154	Archeological Resource - Cultural Material Scatter	Eligible

Class III Cultural Resource Inventory for the Proposed Bowman Wind Project Turning Radii, Bowman County, North Dakota

Site	Resource Type/ Description	NRHP Eligibility
32BO01155	Archeological Resource - Cultural Material Scatter	Unevaluated
32BO01156	Archeological Resource - Cultural Material Scatter	Not Eligible
32BO01157	Archeological Resource - Cultural Material Scatter	Unevaluated
32BO01158	Historical Resource - Cultural Material Scatter, Foundation	Unevaluated
32BO01164	Historical Resource - Metal, Well	Not Eligible
32BO01165	Historical Resource - Cultural Material Scatter	Not Eligible
32BO01166	Historical Resource - Cultural Material Scatter, Foundation	Unevaluated
32BO01167	Historical Resource - Cultural Material Scatter, Depression, Foundation, Other	Unevaluated
32BO01168	Historical Resource - Depression, Dump	Not Eligible
32BO01169	Historical Resource - Grave	Unevaluated
32BO01170	Historical Resource - Depression, Foundation	Unevaluated
32BO01171	Historical Resource - Other	Unevaluated
32BO01175	Historical Resource - Foundation	Unevaluated
32BO01177	Historical Resource - Depression, Foundation	Unevaluated
32BO01180	Historical Resource - Cultural Material Scatter, Dump, Foundation	Unevaluated
32BO01181	Archeological Resource - Other, Stone Circle, Stone Feature	Unevaluated
32BO01187	Archeological Resource - Cultural Material Scatter	Unevaluated
32BO01200	Historical Architectural Resource - Farmstead	Not Eligible
32BOX0030	Historical Architectural Resource - Site Lead - House	Unevaluated
32BOX0033	Historical Architectural Resource - Site Lead - [REDACTED]	Unevaluated

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Site	Resource Type/ Description	NRHP Eligibility
32BOX0094	Historical Architectural Resource - Site Lead - AML Location	Unevaluated
32BOX0130	Archeological Resource - Isolated Find	Unevaluated
32BOX0163	Archeological Resource - Isolated Find	Unevaluated
32BOX0466	Archeological Resource - Isolated Find	Not Eligible
32BOX0467	Archeological Resource - Isolated Find	Not Eligible
32BOX0468	Archeological Resource - Isolated Find	Not Eligible
32BOX0469	Archeological Resource - Isolated Find	Not Eligible
32BOX0473	Archeological Resource - Isolated Find	Not Eligible
32BOX0474	Archeological Resource - Isolated Find	Not Eligible
32BOX0475	Archeological Resource - Isolated Find	Not Eligible
32BOX0477	Archeological Resource - Isolated Find	Unevaluated
32BOX0484	Archeological Resource - Isolated Find	Not Eligible
32BOX0486	Historical Resource - Isolated Find	Not Eligible
32BOX0488	Archeological Resource - Isolated Find	Not Eligible
32BOX0489	Archeological Resource - Isolated Find	Not Eligible
32BOX0490	Archeological Resource - Isolated Find	Not Eligible
32BOX0504	Archeological Resource - Isolated Find	Unevaluated
32BOX0506	Archeological Resource - Isolated Find	Not Eligible
32BOX0509	Archeological Resource - Isolated Find	Not Eligible
32BOX0510	Archeological Resource - Isolated Find	Not Eligible
32BOX0511	Archeological Resource - Isolated Find	Not Eligible
32BOX0513	Archeological Resource - Isolated Find	Not Eligible

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Site	Resource Type/ Description	NRHP Eligibility
32BOX0514	Archeological Resource - Isolated Find	Not Eligible
32BOX0515	Archeological Resource - Isolated Find	Not Eligible
32BOX0516	Archeological Resource - Isolated Find	Potential
32BOX0517	Archeological Resource - Isolated Find	Not Eligible
32BOX0518	Archeological Resource - Isolated Find	Not Eligible
32BOX0519	Archeological Resource - Isolated Find	Not Eligible
32BOX0520	Archeological Resource - Isolated Find	Not Eligible
32BOX0522	Archeological Resource - Isolated Find	Not Eligible
32BOX0523	Archeological Resource - Isolated Find	Not Eligible
32BOX0524	Archeological Resource - Isolated Find	Unevaluated
32BOX0525	Archeological Resource - Isolated Find	Not Eligible
32BOX0526	Archeological Resource - Isolated Find	Not Eligible
32BOX0527	Historical and Archeological Resource - Isolated Find	Not Eligible
32BOX0528	Archeological Resource - Isolated Find	Not Eligible
32BOX0529	Archeological Resource - Isolated Find	Unevaluated
32BOX0530	Historical Resource - Isolated Find	Not Eligible
32BOX0531	Archeological Resource - Isolated Find	Not Eligible
32BOX0532	Archeological Resource - Isolated Find	Not Eligible
32BOX0533	Archeological Resource - Isolated Find	Not Eligible
32BOX0535	Archeological Resource - Isolated Find	Not Eligible
32BOX0540	Archeological Resource - Isolated Find	Not Eligible
32BOX0541	Archeological Resource - Isolated Find	Not Eligible

Class III Cultural Resource Inventory for the Proposed Bowman Wind Project Turning Radii, Bowman County, North Dakota

Site	Resource Type/ Description	NRHP Eligibility
32BOX0544	Archeological Resource - Isolated Find	Not Eligible
32BOX0546	Archeological Resource - Isolated Find	Not Eligible
32BOX0547	Archeological Resource - Isolated Find	Unevaluated
32BOX0550	Archeological Resource - Isolated Find	Not Eligible
32BOX0552	Archeological Resource - Isolated Find	Unevaluated
32BOX0553	Archeological Resource - Isolated Find	Not Eligible
32BOX0564	Archeological Resource - Site Lead - Cultural Material Scatter	Unevaluated
32BOX0565	Archeological Resource - Isolated Find	Not Eligible
32BOX0566	Archeological Resource - Isolated Find	Unevaluated
32BOX0580	Archeological Resource - Isolated Find	Unevaluated
32BOX0582	Archeological Resource - Isolated Find	Unevaluated
32BOX0583	Archeological Resource - Isolated Find	Not Eligible
32BOX0584	Archeological Resource - Isolated Find	Not Eligible
32BOX0585	Archeological Resource - Isolated Find	Not Eligible
32BOX0586	Archeological Resource - Isolated Find	Not Eligible
32BOX0587	Archeological Resource - Isolated Find	Not Eligible
32BOX0588	Archeological Resource - Isolated Find	Not Eligible
32BOX0589	Archeological Resource - Isolated Find	Not Eligible
32BOX0591	Archeological Resource - Isolated Find	Unevaluated
32BOX0592	Archeological Resource - Isolated Find	Not Eligible
32BOX0594	Archeological Resource - Isolated Find	Not Eligible
32BOX0595	Archeological Resource - Isolated Find	Unevaluated

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Site	Resource Type/ Description	NRHP Eligibility
32BOX0597	Archeological Resource - Isolated Find	Not Eligible
32BOX0598	Archeological Resource - Isolated Find	Not Eligible
32BOX0599	Archeological Resource - Isolated Find	Unevaluated
32BOX0600	Historical and Archeological Resource - Isolated Find	Not Eligible
32BOX0601	Archeological Resource - Isolated Find	Unevaluated
32BOX0602	Archeological Resource - Isolated Find	Not Eligible
32BOX0603	Archeological Resource - Isolated Find	Not Eligible
32BOX0604	Archeological Resource - Isolated Find	Not Eligible
32BOX0606	Archeological Resource - Isolated Find	Not Eligible
32BOX0608	Historical Architectural Resource - Site Lead - [REDACTED]	Eligible
32BOX0613	Archeological Resource - Isolated Find	Not Eligible
32BOX0614	Archeological Resource - Isolated Find	Not Eligible
CHFBO0001	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0002	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0005	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0006	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0009	Cultural Heritage Resource - Stone Spiral	Unevaluated
CHFBO0010	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0012	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0014	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0017	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0018	Cultural Heritage Resource - Cairn	Unevaluated

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Site	Resource Type/ Description	NRHP Eligibility
CHFBO0019	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0020	Cultural Heritage Resource - Stone Spiral	Unevaluated
CHFBO0021	Cultural Heritage Resource - Stone Circle, Stone Feature	Unevaluated
CHFBO0022	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0023	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0024	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0025	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0026	Cultural Heritage Resource - Stone Circle, Stone Spiral	Unevaluated
CHFBO0027	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0028	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0029	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0030	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0031	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0032	Cultural Heritage Resource - Stone Feature	Unevaluated
CHFBO0033	Cultural Heritage Resource - Stone Feature	Unevaluated
CHFBO0034	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0035	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0036	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0037	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0038	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0039	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0040	Cultural Heritage Resource - Cairn	Unevaluated

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Site	Resource Type/ Description	NRHP Eligibility
CHFBO0041	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0042	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0043	Cultural Heritage Resource - Stone Feature	Unevaluated
CHFBO0044	Cultural Heritage Resource - Stone Circles, Stone Features	Unevaluated
CHFBO0045	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0046	Cultural Heritage Resource - Stone Circle, Stone Spiral	Unevaluated
CHFBO0051	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0052	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0053	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0054	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0055	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0056	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0058	Cultural Heritage Resource - Stone Circles, Stone Feature	Unevaluated
CHFBO0059	Cultural Heritage Resource - Stone Circles, Stone Feature	Unevaluated
CHFBO0061	Cultural Heritage Resource - Rock Art, Stone Circle	Unevaluated
CHFBO0062	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0063	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0064	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0065	Cultural Heritage Resource - Stone Circles	Unevaluated
CHFBO0066	Cultural Heritage Resource - Stone Feature	Unevaluated
CHFBO0067	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0068	Cultural Heritage Resource - Stone Circle, Stone Features	Unevaluated

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Site	Resource Type/ Description	NRHP Eligibility
CHFBO0069	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0070	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0071	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0072	Cultural Heritage Resource - Stone Feature	Unevaluated
CHFBO0073	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0074	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0075	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0076	Cultural Heritage Resource - Stone Feature	Unevaluated
CHFBO0077	Cultural Heritage Resource - Stone Features	Unevaluated
CHFBO0078	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0079	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0080	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0081	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0082	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0083	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0084	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0085	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0086	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0087	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0088	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0089	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0090	Cultural Heritage Resource - Cairn, Stone Feature	Unevaluated

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Site	Resource Type/ Description	NRHP Eligibility
CHFBO0091	Cultural Heritage Resource - Cairn	Unevaluated
CHFBO0092	Cultural Heritage Resource - Stone Circle	Unevaluated
CHFBO0093	Cultural Heritage Resource - Cairn, Stone Circle	Unevaluated
CHFBO0094	Cultural Heritage Resource - Cairn, Stone Features	Unevaluated

Twenty-four compliance-related cultural resources inventories have been performed within 1 mile of the project area (Table 3). Four previous inventories fall within portions of the direct APE. The four previous inventories within the project area were conducted to address road improvements, waterline installation, and the Bowman Wind Farm.

Table 3. Previous Archaeological Surveys Within 1 Mile of the Project Area.

Resource Number	Author(s)	Year	Title
3530	Bass, S.	1983	Bowman County Land Status Survey, 84-MTO30-10 (B).
3531	Bass, S.	1983	Bowman County Land Status Survey, 84-MTO30-10 (C).
4243	Blikre, L. R., et al	1987	Cultural Resource Inventory of Two Uranium Mill Tailings Remedial Action Project Areas, Stark and Bowman Counties, North Dakota.
6624	Metcalf, S. J.	1995	Consolidated Telephone Cooperative's Ladd Exchange: A Cultural Resource Inventory, Bowman County, ND.
6855	Kulevsky, A. & Stine, E.	1996	KLJ-Consolidated Telephone Cooperative Rhame Exchange: A Class II and III Cultural Resource Inventory in Bowman and Slope Counties, ND.
7282	Larson, T. K.	1998	Results of a Class II and Class III Cultural Resource Inventory for NDDOT Project Area SS-5-012(023)020 Bowman County, North Dakota.
8187	Morrison, J. G.	2002	Living Snow Fence Survey of 28 Sites in Adams, Barnes, Bowman, Emmons, Golden Valley, Hettinger, Kidder, McIntosh, Mountrail, Oliver & Walsh Co., ND: A Class III Cultural Resource Inventory.
8335	Wermers, G. L.	2002	Southwest Pipeline Project - Class III Cultural Resource Investigations for the Twin Buttes Service Area and West Rainy Butte Booster Area Rural Water Distribution System (Contract 7-7B/7-3C) BO Co., North Dakota.
8492	Wermers, G. L.	2003	Class III Inventories for Pipeline Additions and Reroutes in the Twin Buttes Service Area (Contract 7-7A) and the Twin Buttes Service Area/West Rainy Butte Booster Area (Contract 7-7B/7-3C) UW #2315.

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Resource Number	Author(s)	Year	Title
10650	Barth, A. L., et al	2008	Basin Electric Cooperative's Belfield to Rhame 230 kV Transmission Project: A Class III Cultural Resource Inventory in Bowman, Slope, Stark Co., ND & Addendums 1, 2, 3.
10989	Harty, J. L.	2009	Amidon, Bowman, Rhame and Mott-Four Telecom Exchanges in Southwestern North Dakota: A Class II and Class III Cultural Resource Inventory, Bowman, Slope and Hettinger Counties, North Dakota.
11071	Schwartz, J.	2009	Basin Electric Cooperative's Belfield to Rhame 230 kV Transmission Project: A Class III Cultural Resource Inventory in Bowman, Slope, & Stark Counties: Addendum 4.
011221	Larmore, S. and K. Croll	2009	Cultural Resources Survey Report Highway 12 State Line to Rhame, Bowman and Slope Counties, North Dakota
013664	McCann, E. and W. Burns	2012	Rhame Radio Tower: A Class III Cultural Resources Inventory in Bowman County, North Dakota
014118	Springer, K.L.	2013	13-011-005 Pipeline System and Fence Project Cultural Resources Inventory, Bowman County, North Dakota
014183	Springer, K.L.	2013	10-011-075 Pipeline System and Fence Project Cultural Resources Inventory, Bowman County, North Dakota
015053	Hoffecker, J.F.	2014	Class III Cultural Resources Inventory, ND014 Rhame DT, 304 Parry Avenue, Rhame, Bowman County, North Dakota
015653	Robinson, A.	2015	Consolidated Telecom Ladd and South Rhame Exchanges: A Class I, II, III Cultural Resource Inventory in Bowman County, North Dakota
018100	Brooks, B.	2018	A Class III Intensive Cultural Resource Inventory for the Griffin Road (152 nd Avenue SW) Reconstruction Project in Bowman County, ND.
018372	Bullard, L.	2019	Historic Properties Inventory & Documentation for Telecommunications Tower MPLSNDU2884 Rhame DT, Bowman County, North Dakota
018835	Reilly Lembo, Brittany Brooks	2020	Class III Cultural Resource Inventories for the Jensen Brothers Construction, Inc. 2019 Material Source Areas in Bowman County, North Dakota
019375	Scott, L.D.J., S.B. Carll, L. Ramirez, A. Shaw, M. Carpenter, J. Larson	2021	Cultural Resources Inventory of the Bowman Wind Project, Bowman County, North Dakota
019414	Scott, L.D.J., and M. Lemly	2021	Cultural Resources Inventory of the Bowman Wind Project Addendum 1, Bowman County, North Dakota

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Resource Number	Author(s)	Year	Title
020235	Hoganson, E.	2023	North Dakota Natural Resource Trust: A Class III Archaeological Inventory for the THOM-1 Waterline, Bowman County, North Dakota

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Additional Historical Research

General Land Office (GLO) records and historical United States Geological Survey (USGS) aerial photographs of site lead 32BOX30 in relation to the project area were also reviewed. Neither historic aerial photograph (Figure 18) nor the GLO map (Figure 19) revealed any post-settlement structures or other cultural material in the proposed turning radius.

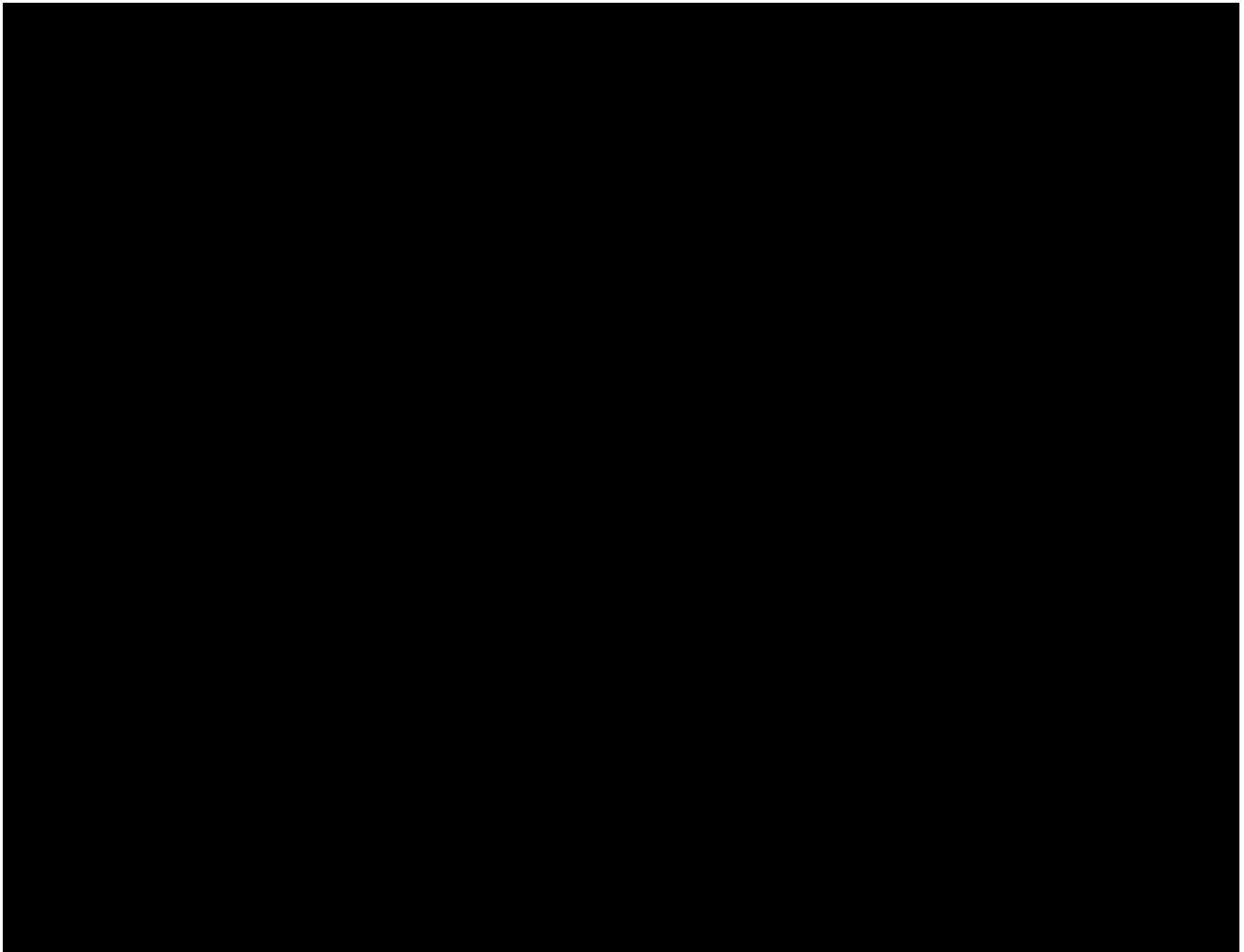


Figure 18. 1957 USGS aerial photograph, arrow indicates 32BOX30 and the project area. Note lack of structures in project area.

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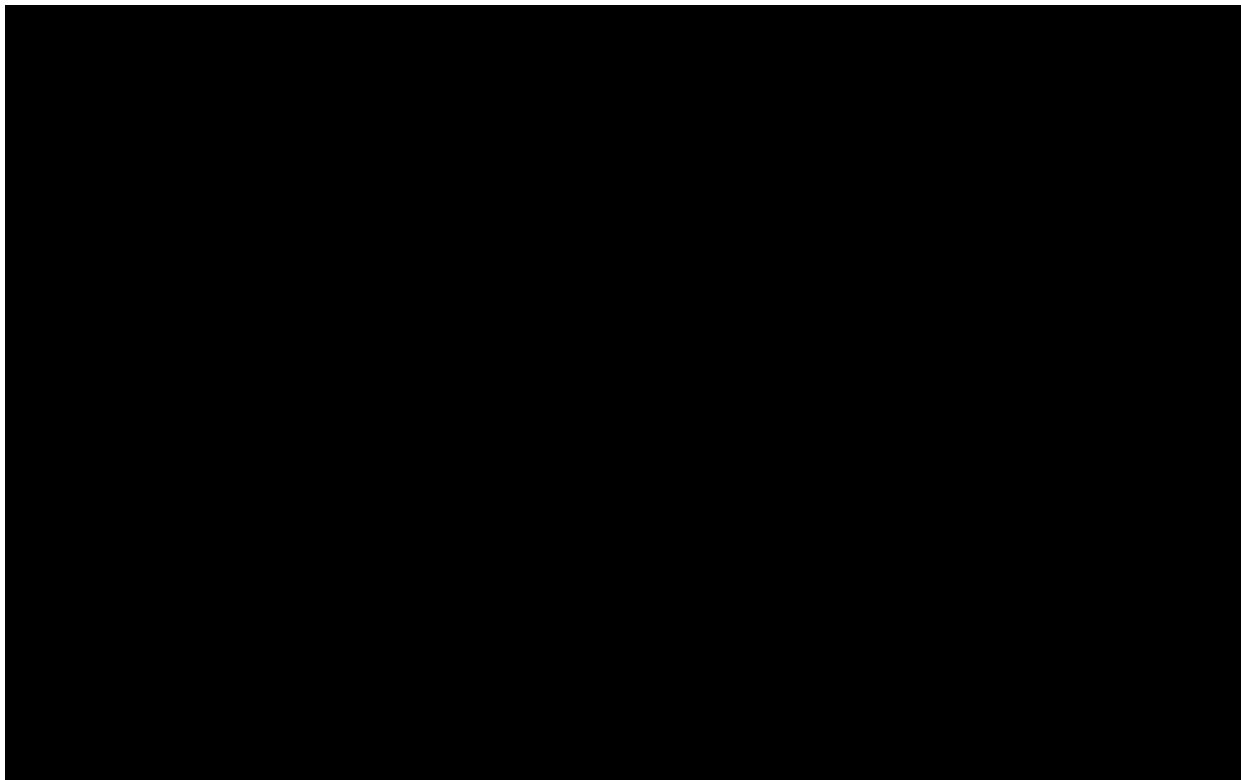


Figure 19. 1917 Survey Map of Rhome township, arrow indicates 32BOX30 and the project area. Note lack of development within the project area.

Survey Methods

On May 24, 2024, Impact 7G, Inc. archeologists Kurt Lanno and Adam Sax conducted Class III cultural resource inventory of the ten proposed turning radii locations. Pedestrian inventory covered approximately 80 acres split between ten different turn radii in the ROW and adjacent agricultural land. The inventory area was located using a global positioning system (GPS) application, aerial and topographic maps, and project information provided by the client. Field investigation consisted of visual inspection using pedestrian transects spaced no more than 15 meters apart, and photography to locate cultural resources and determine the potential effects of the proposed project on historic properties. Subsurface testing was used based on professional judgement in one area with high probability for containing cultural resources, low ground surface visibility, and soil data showing a high potential for deeply buried cultural horizons.

Any cultural resources identified by the records search to lay within the project area were revisited to determine any potential impacts by the proposed project. Approximately 90 percent of the project area was heavily disturbed due to past ditching and road grading. Ground surface visibility ranged from 90 percent in freshly planted agricultural fields to 10 percent for heavily vegetated areas in ditched areas with an average of 35 percent. In undisturbed areas, the groundcover consisted of mixed grass prairie with some prickly pear. In disturbed areas cultivated grasses, prairie grasses, and winter wheat were the predominant

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groundcover. One negative shovel test was conducted in undisturbed grassland in the least disturbed turn radius and screened through 0.25-inch mesh (See table and map below). This location was chosen for subsurface testing due to a combined lack of previous soil disturbance and lack of ground visibility. The rest of the project area was highly disturbed by ditching, road grading, and some agriculture. The subsurface test conducted was terminated approximately 16 cm into the B horizon of the soil.

Survey Results

Table 4 provides a summary of the Class III inventory and subsurface testing. Only one subsurface test (i.e., shovel test) was conducted at turning radius location TR-10 due to poor ground surface visibility and lack of previous soil disturbance. The subsurface test showed a negative result and was conducted in (See Table 3 and Figure 19). Additionally, one previously recorded cultural resource (39BOX30) was located within the inventory area and the details of that resource are discussed below.

Previously Recorded Cultural Resources within the Inventory Area

Turning Radii Location TR-9 – Lead Site 32BOX30

Unevaluated Site Lead 32BOX30, the only previously recorded cultural resource within the APE, is an historic architectural site lead that surrounds the possible location of an early 20th Century wooden rectory. 32BOX30 was first recorded as a site lead in 1998 during the architectural survey “Picture North Dakota Churches,” based on oral testimony of the rectory’s former location. The boundary of the site lead consists of the [REDACTED]

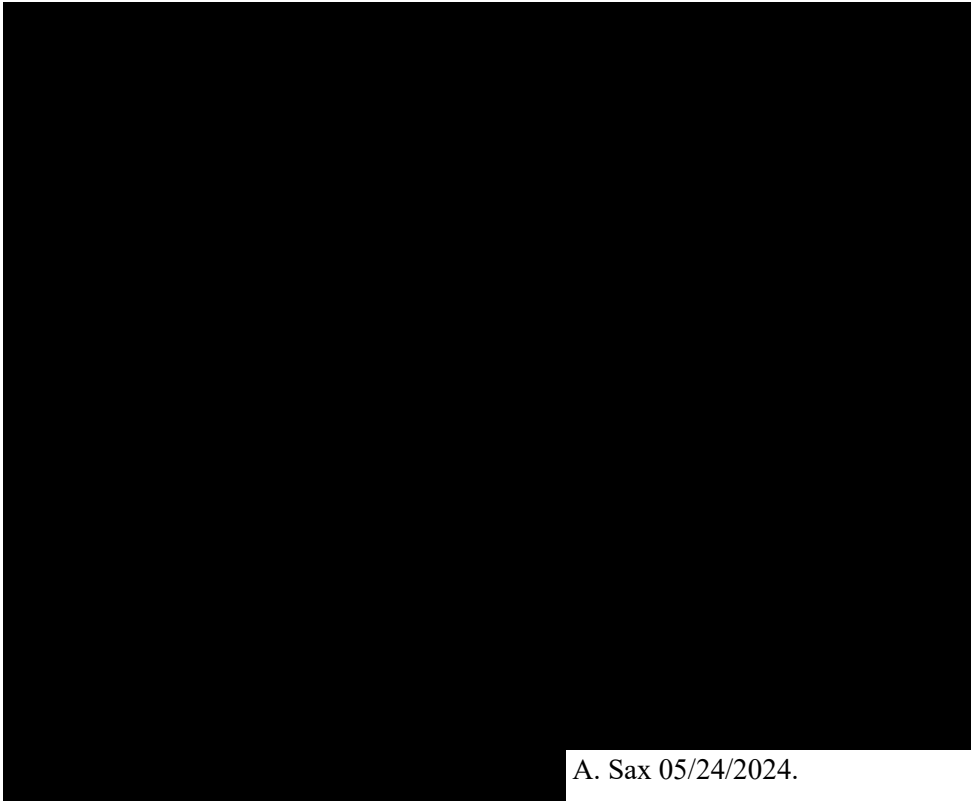
[REDACTED] This quarter-quarter section is bisected [REDACTED]

[REDACTED] Much of the quarter-quarter section is taken up by agricultural and [REDACTED] with a small residential area in the [REDACTED]

Turning radius location TR-9 intersects the [REDACTED] of the site lead at the [REDACTED]. The proposed turn radius at this location was located entirely in the [REDACTED] (Fig. 12-14). Adjacent soils have also been disturbed due to [REDACTED] (Fig. 14). No structural remains of any description were observed in the APE, which consists of the previously disturbed [REDACTED]. Due to the high level of soil disturbance and lack of any indication of structural remains, no subsurface testing was conducted.

Considering the absence of any evidence for cultural resources within the APE at this location, and the lack of inventory throughout the remainder of the site lead boundary, Impact 7G recommends that 32BOX30 remain a site lead. Due to the negative inventory results within proposed turn radius TR-9, no further mitigation or avoidance are recommended by the project at this location.

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A. Sax 05/24/2024.

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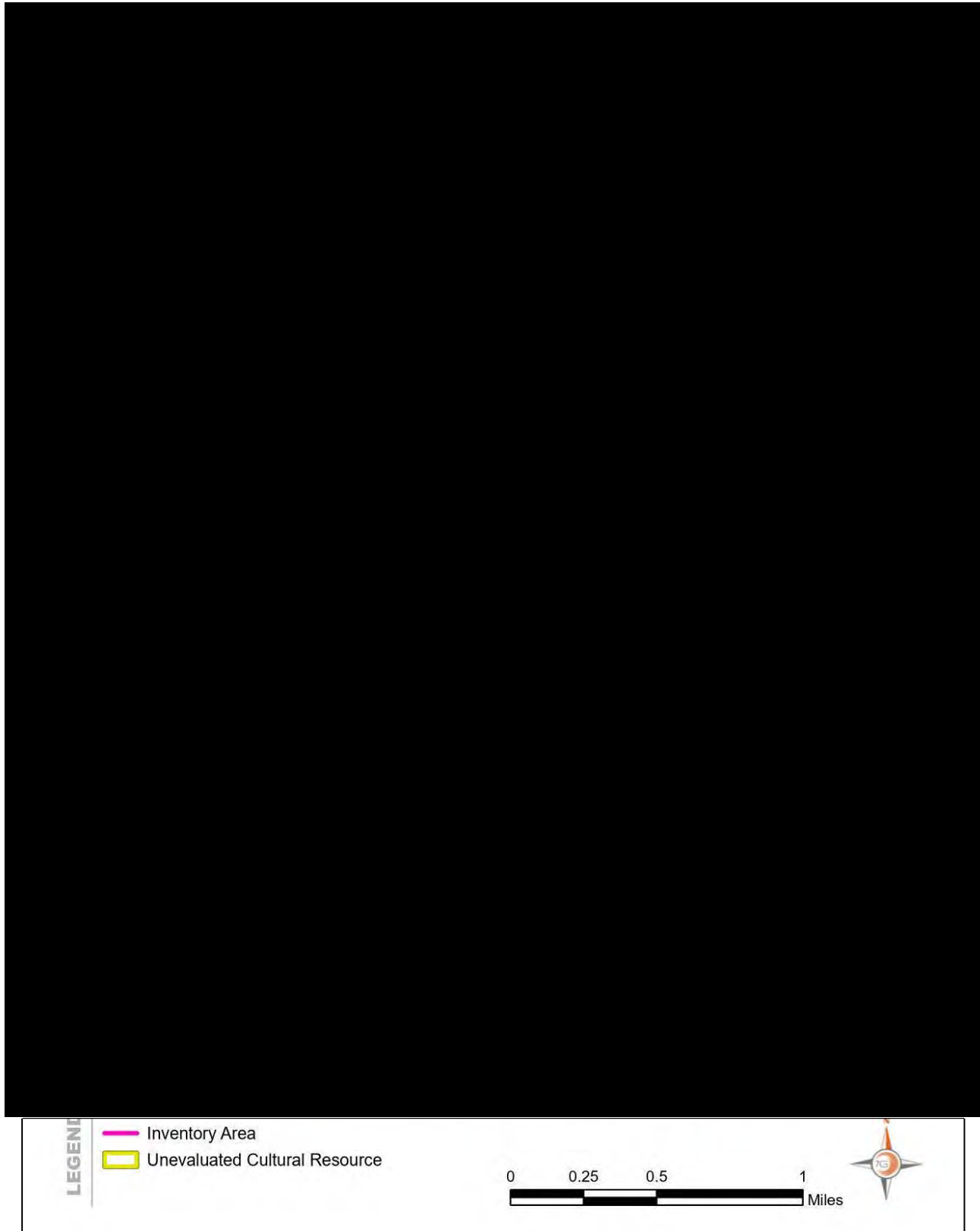


Figure 21. 32BOX30 in relation to proposed turning radii location TR-9.

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Subsurface Test Results

Table 4. Summary results of the Class III Inventory and Subsurface Tests

Location ID	Turn Radius Location	GSV	Percent Disturbance	Subsurface Test
TR-1	83 rd St. and 152 nd Ave.	10%	90%	N
TR-2	83 rd St. and 151 st Ave.	20%	75%	N
TR-3	Highway 12 and 151 st Ave.	35%	100%	N
TR-4	154 th Ave.	60%	40%	N
TR-5	93 rd St. and 154 th Ave.	45%	35%	N
TR-6	93 rd St. and 152 nd Ave.	15%	80%	N
TR-7	94 th St. and 152 nd Ave.	35%	100%	N
TR-8	158 th Ave. SW	15%	90%	N
TR-9	Highway 12 and 158 th Ave. SW	10%	100%	N
TR-10	Section 32 and 33 Line, T132N, R103W	10%	10%	Y

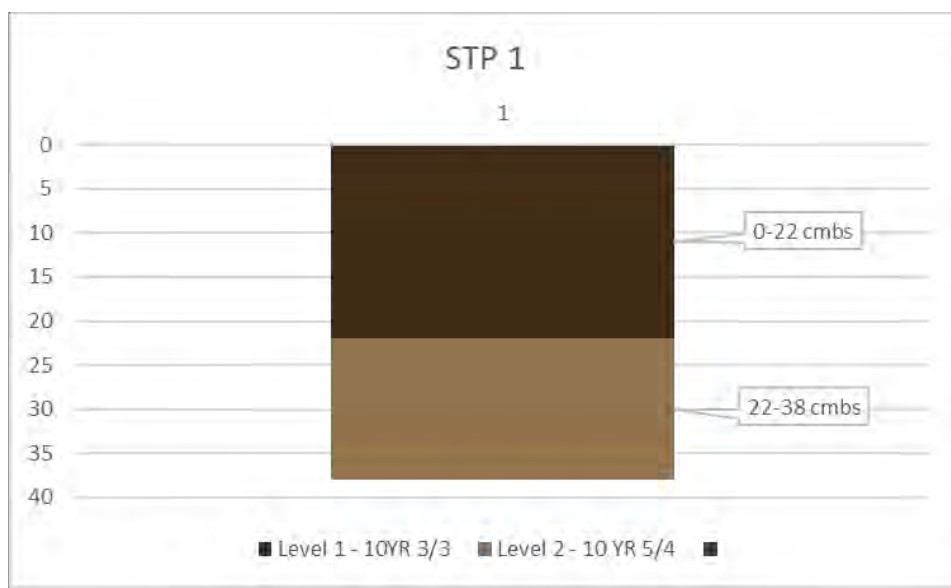


Figure 22: STP 1 profile.

Depth (cm)	Color	Soil Horizon	Texture	Artifacts Present
0-22	10YR 4/4	A	Sandy Loam with high gravel concentration	N
22-38	10YR 3/3	B	Sandy Loam with high gravel concentration	N

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Figure 23. Overview of subsurface test, facing north. K. Lanno, 05/24/2024.

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Summary and Management Recommendations

On May 24, 2024, Impact 7G, Inc. archeologists Kurt Lanno and Adam Sax conducted Class III cultural resource inventory of the ten proposed turning radii. Pedestrian inventory covered approximately 80 acres in 15 meter or less spaced transects. Approximately 90 percent of the project area was heavily disturbed due to past ditching, road construction, and utilities installation. Ground surface visibility ranged from 90 percent in freshly planted agricultural fields to 10 percent heavily vegetated areas in ditches areas with an average of 35 percent. However, all low visibility areas consisted of the ditch or road berm, with the exception of proposed turning radius TR-10 which was subsurface tested.

One previously recorded cultural resource, unevaluated architectural site lead 32BOX30, falls within the APE and was revisited during inventory. No sign of any historic structure was found within the APE, which is entirely within the previously disturbed [REDACTED]. Due to the lack of architectural remnants and high level of previous disturbance within the APE, it was determined that no architectural features are present within that portion of the site lead boundary.

The Class III cultural resource inventory covering the APE showed: 1) a portion of the inventory area has been previously disturbed by [REDACTED] 2) no National Register of Historic Places (National Register) properties are within or proximal to the inventory area; 3); while the APE of the project falls within the boundary of site lead 32BOX30, no cultural materials associated with the structure were present within the portion of the site lead where the project is located. Therefore, Impact7G recommends a finding of No Historic Properties Affected, and the proposed project may be completed as planned.

In the unlikely event that cultural resources are located during development, it is recommended that the South Dakota State Historic Preservation Office (SHPO) and Impact 7G be contacted immediately.

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Appendix A: Photographs



Figure 24. Overview of turning radius at the intersection of 94th St. SW and 152nd Ave. SW. Note well defined ditch and raised roadbed. A. Sax 05/24/2024.



Figure 25. Overview of turning radius at 83rd St. SW and 152nd Ave. SW. Note ditching and raised roadbed. K. Lanno 05/24/2024.

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Figure 26. Turning radius at intersection of 93rd St. SW and 152nd Ave. SW, facing south. Note pronounced ditch and raised roadbed. A. Sax 05/24/2024.



Figure 27. Least disturbed turning radius that encompasses the two-track and immediately west of the fence line, facing south. K. Lanno 05/24/2024.

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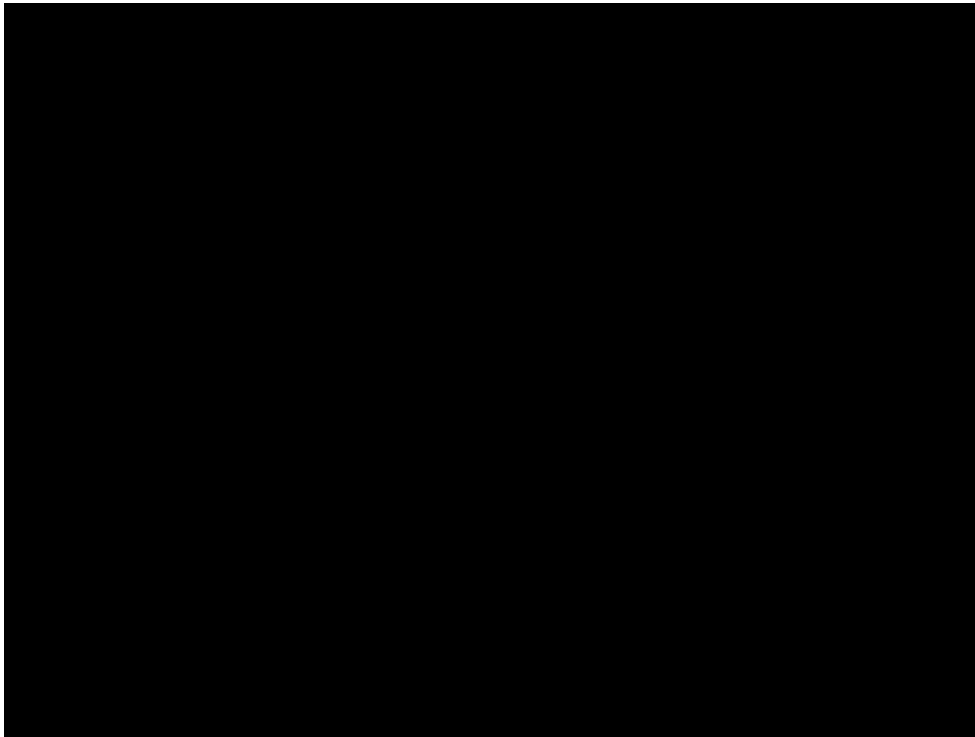


Figure 28. Overview of 32BOX30 at intersection with the APE, facing north.
K. Lanno 05/24/2024.

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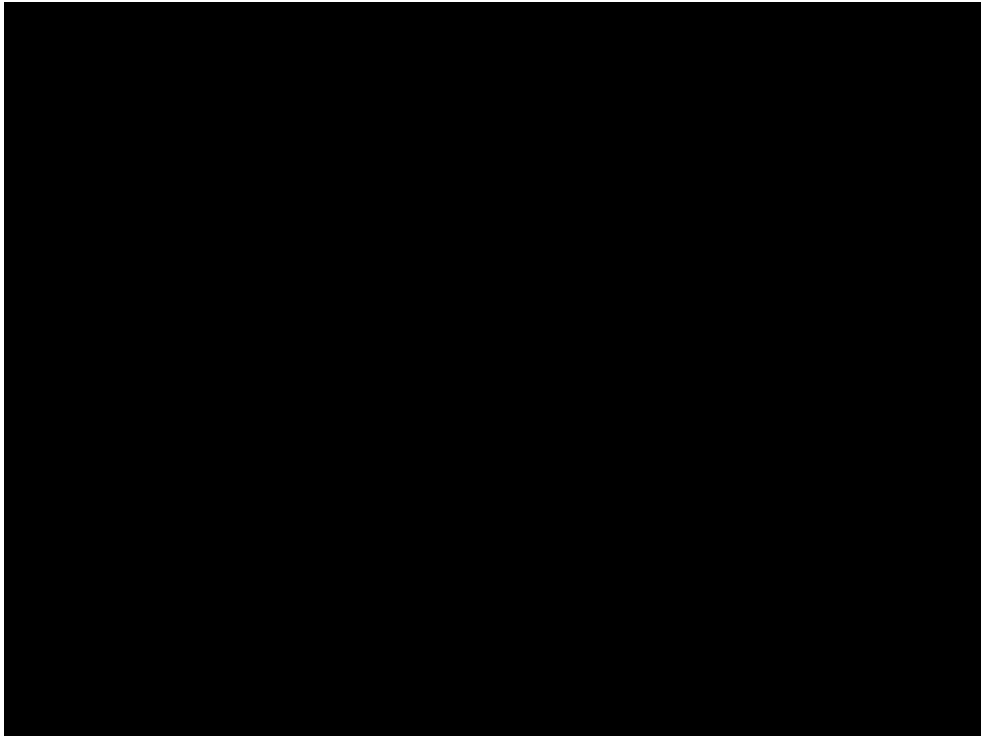


Figure 29. Overview at the intersection of the APE with 32BOX30, facing south.
Note raised roadbed and utilities installation. K. Lanno 05/24/2024.