

## **TAB 4 – Route Certificate Application Exhibits**

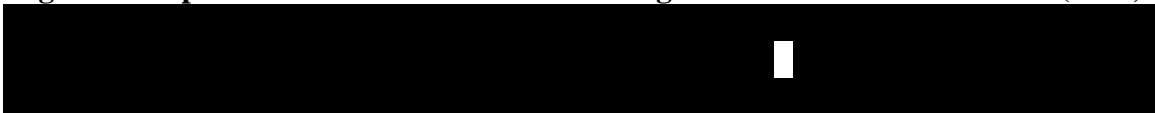
- Appendix 4.A Archaeological and Cultural Assessment Reports  
(Metcalf Archeological Consultants, Inc.)
- Appendix 4.B Maps of Exclusion and Avoidance Areas – See Map Book
- Appendix 4.C Landowner List
- Appendix 4.D State Sensitive Species & Rankings
- Appendix 4.E Additional Project Maps


## MANUSCRIPT DATA RECORD FORM

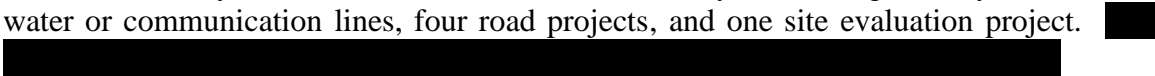
1. Manuscript Number:
2. SHPO Reference #:
3. Author(s): Ed Stine
4. Title: Dickinson Loop Pipeline – Addendum 1: A Class III Cultural Resource Inventory for a Proposed Pipeline in Billings, Dunn, and Stark Counties, North Dakota
5. Report Date: November 2013
6. Number of Pages: 7
7. Type: I
8. Acres: 139 Acres
9. Legal Location(s): REDACTED

# Addendum Survey Report **REDACTED**

Submitted by Metcalf Archaeological Consultants, Inc.  
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1. **Report Title:** Dickinson Loop Pipeline – Addendum 1: A Class III Cultural Resource Inventory for a Proposed Pipeline in Billings, Dunn, and Stark Counties, North Dakota
2. **Author:** Ed Stine
3. **Report Date:** November 2013
4. **Fieldwork Date(s):** November 12 and 14, 2013
5. **Acreage:** 139 Acres
6. **Project Sponsor:** Keitu Engineers and Consultants (Keitu) on behalf of Belle Fourche Pipeline Company
7. **Historic Context (Study Unit):** Heart River Study Unit (Unit #4)
8. **Legal Description/Location of the Undertaking Area of Potential Effects (APE):**  
  
(Map 1 REDACTED).
9. **Description of Project:** The original proposed route was inventoried by Metcalf Archaeological Consultants, Inc. (MAC) archaeologists in September 2012 (Bluemle 2012). It became necessary to reroute approximately 4.6 miles of the project corridor near the south end. Keitu requested that MAC conduct a Class III cultural resource inventory of the 250 foot wide 4.6 mile reroute
10. **Records Search:** On November 11, 2013, Dierdre Snortland-Banks and Sarah Niskanen of MAC conducted a search of the site and manuscript files at the State Historical Society of North Dakota. The search covered 4.6 miles of the proposed reroute corridor and the surrounding one mile (Tables 1 and 2 REDACTED).

The search revealed that 36 cultural resources have been recorded in the search area, . The resources include 9 pre-contact archaeological sites and 15 isolated finds. In addition, there are five architectural sites, three historic sites, three historic site leads, and one historic isolated find. The resource nearest the project corridor, 32SK795, consists of a grain elevator, shed, railroad siding, and cultural material scatter. Its nearest point is approximately 300 meters south of the undertaking.

The search also revealed that 22 investigations have been conducted in the search area, 14 in the last 20 years. These include three block surveys, two bridge surveys, four linear water or communication lines, four road projects, and one site evaluation project. 

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11. **Field Personnel:** The inventory was conducted by Ed Stine, Principal Investigator, along with Mike Clauss, Laura Evilsizer, and Justin Rodgers.
12. **Field Methods and Conditions:** The cultural resource inventory conformed to *North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects* (SHSND 2012). The inventory employed a pedestrian transect methodology with transects spaced no more than 15 meters apart. This methodology was used to inventory the entire APE.

The APE passes through gently rolling uplands north of the Heart River. APE boundaries were mapped using a hand-held GPS unit and field conditions were documented with digital photographs (Figures 2-3) and detailed in field notes. All electronic and paper records are on file at the MAC Bismarck office.

Approximately 75 percent of the APE is in plowed agricultural fields. The native prairie consists of well-grazed short grasses, herbaceous sage, and various forbs. At the time of the inventory, ground surface visibility ranged from 20 to 50 percent and averaged over 30 percent.

13. **Results and Recommendations:** No cultural resources were encountered during this addendum inventory. A finding of *No Historic Properties Affected* is recommended for this undertaking as surveyed, mapped, and documented herein.

#### 14. **References Cited:**

Bluemle, William J.

2012 *Dickinson Loop: A Class III Cultural Resource Inventory for a Proposed Pipeline in Billings, Dunn, and Stark Counties, North Dakota*. On file at the State Historical Society of North Dakota

State Historical Society of North Dakota (SHSND)

2012 *North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects*. <http://history.nd.gov/hp/PDFinfo/ND%20SHPO%20Guidelines%20Manual.pdf>.







# Addendum Survey Report

## Map and Photo Section



**Figure 1:** View to the north over the north end of the project corridor (Image 11-14-1260).



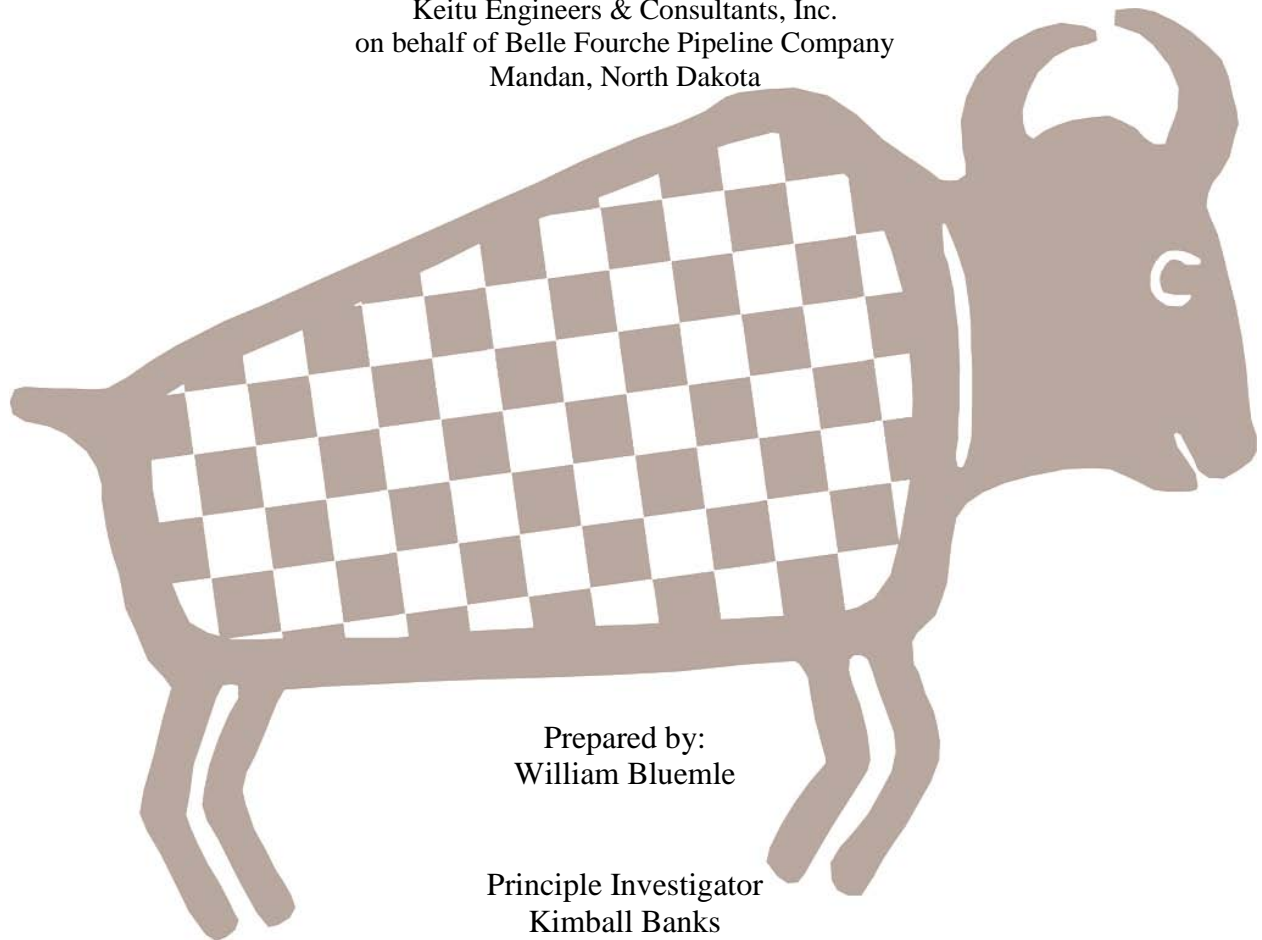
**Figure 2:** View to the north over the south end of the project corridor (Image 11-14-1264).



DICKINSON LOOP PIPELINE:  
A CLASS III CULTURAL RESOURCE INVENTORY  
FOR A PROPOSED PIPELINE  
IN BILLINGS, DUNN, AND STARK COUNTIES,  
NORTH DAKOTA

SHPO Reference #: 12-1443 RUS

Prepared for:  
Keitu Engineers & Consultants, Inc.  
on behalf of Belle Fourche Pipeline Company  
Mandan, North Dakota



Prepared by:  
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Principle Investigator  
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Bismarck, ND

October 2012

## ABSTRACT

From September 4-6 and September 25, 2012, archaeologists from Metcalf Archaeological Consultants, Inc. conducted a Class III cultural resource inventory of segments of the proposed Dickinson Loop Pipeline project. Keitu Engineers and Consultants, Inc. of Mandan, North Dakota, requested the inventory on behalf of Belle Fourche Pipeline. The undertaking consists of the construction of a 17.4 mile long pipeline and terminus in Billings, Dunn, and Stark counties, North Dakota. The pipeline construction corridor will be 250 feet wide and the terminus will encompass a 44 acre block. The total inventory area was 571 acres. The project corridor was 250 feet wide. Six cultural resources were recorded: historic dumps 32BI1116 and 32SK1070, historic cultural material scatter 32DU1789, and prehistoric isolated finds 32BIx919, 32BIx920, and 32SKx363. Metcalf Archaeological Consultants, Inc. considers that none of the cultural resources satisfy any of the criteria necessary to be eligible for the National Register of Historic Places and no further work is necessary. Metcalf Archaeological Consultants, Inc. recommends a determination of *No Historic Properties Affected* (36CFR800.4[d][1]) for the undertaking as inventoried, mapped, and documented herein.

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## INTRODUCTION

From September 4-6, and September 25, 2012, archaeologists from Metcalf Archaeological Consultants, Inc. (MAC) conducted a Class III cultural resource inventory of segments of the proposed Dickinson Loop Pipeline project. Keitu Engineers and Consultants, Inc. (Keitu) of Mandan, North Dakota, requested the inventory on behalf of Belle Fourche Pipeline Company. The undertaking consists of the inventory of a pipeline corridor and terminus in Billings, Dunn, and Stark counties, North Dakota. The corridor will be 17.4 miles long by 250 feet wide while the terminus will encompass a 44 acre block. The total construction/inventory area was 571 acres.

The archaeologists recorded six cultural resources: historic dumps 32BI1116 and 32SK1070, historic cultural material scatter (CMS) 32DU1789, and prehistoric isolated finds 32BIx919, 32BIx920, and 32SKx363. Metcalf Archaeological Consultants, Inc. considers that all of the cultural resources do not satisfy any of the criteria necessary to be eligible for the National Register of Historic Places, with no further work necessary. Metcalf Archaeological Consultants, Inc. recommends a determination of *No Historic Properties Affected* (36CFR800.4[d][1]) for the undertaking as inventoried, mapped, and documented herein.

## THE UNDERTAKING

The undertaking consists of the construction of an oil pipeline and terminus. The pipeline corridor will be 17.4 miles long by 250 feet wide. The terminus will cover 44 acres. The pipeline corridor and terminus were the subject of the cultural resources inventory.

## LOCATION OF THE UNDERTAKING AREA OF POTENTIAL EFFECTS

The undertaking area of potential effects (APE) is located west and northwest of the town of Dickinson, North Dakota (Figure 1). The legal description is presented in Table 1.

Table 1: Removed

## PROJECT SETTING/ENVIRONMENT

The APE is generally located in the Missouri Slope Upland of the Great Plains physiographic region (Bluemle 2000). The Missouri Slope Upland consists of "...rolling to hilly plains except in badlands areas and near prominent buttes; gentle slopes characterize 50 to 80 percent of the area and local relief ranges from 300 to 500 feet; upland surface is generally 200 to 400 feet higher than the McKenzie Upland and slopes upward to the west." (Bluemle 2000:4) Archaeologically, the APE is located in the Heart River Study Unit (Unit #4) as defined in *The North Dakota Comprehensive Plan for Historic Preservation: Archeological Component* (SHSND 2008:4.1-4.44). These volumes provide overviews of the area's physiography and archaeology.

Removed

Figure 1: Map showing general location of the project area

The APE crosses gently rolling uplands. Four fifths of the APE is currently cultivated, with crop residue providing 20 to 60 percent ground surface visibility (GSV) (Figure 2). One fifth of the APE is native pasture, with 20 to 40 percent GSV (Figure 3).



Figure 2: View of cultivated corridor (Image 3514).



Figure 3: View of short grass prairie terrain (Image 3472).

## FILES SEARCH

In August 2012, prior to the Class III inventory, MAC staff Dierdre Snortland-Banks and Danielle Bailey conducted a search of the site and manuscript files at the State Historical Society of North Dakota of the APE and the surrounding one mile. The objective was to determine if any cultural resources have been recorded and/or if any cultural resource inventories have been conducted within the APE and the surrounding one mile. The results of the search are documented in tables B-1 and B-2 in Appendix B.

The search area encompassed 63 sections. A total of 67 cultural resources have been recorded in the search area; 13 in Billings County, three in Dunn County, and 51 in Stark County. The resources in Billings County included: one archaeological site lead, eight archaeological isolated finds, one historic site lead, two architectural sites, and one multi-component site. The resources in Dunn County included: one historic site, one historic isolated find, and one multi-component site. The resources in Stark County included: 20 archaeological sites, one archaeological site lead, 18 archaeological isolated finds, two historic sites, four historic site leads, two architectural sites, one architectural site lead, and three multi-component sites. The prehistoric sites consist almost entirely of cultural material scatters (CMS); the historic sites consist of residential/farmstead remains; the architectural sites consist of four bridges and a church; the multi-component sites consist of farmsteads; the prehistoric isolates are mainly chipped stone; the prehistoric site leads consist of a stone feature and a CMS; and the historic site leads consist of three mines and camp.

Two sites are located within a quarter mile of the project corridor; historic site 32SK109 and multi-component architectural/historic site 32SK1041. Both sites have been recommended *not eligible* for the National Register of Historic Places (NRHP) and though neither needs to be, both will be avoided. Site 32BI895 – the St. Peter and Paul Cemetery - in Billings County has been determined *eligible* for inclusion in the NRHP; this site is outside the APE. The APE also crosses the Great Northern Railroad, 32SK795, in two locations; the railroad will be avoided as the pipeline will bore underneath the rail line at each crossing. The site form for 32SK795 was updated. Three site leads – 32BIx47, 32SKx33, and 32SKx45 - were recorded by Benson; the resource documents lacked appropriate maps so their precise location cannot be determined.

A total of 26 cultural resource inventories have been conducted. Inventories were associated with a variety of projects, including but not limited to seven inventories associated with transmission lines/communications; four with oil/gas pipeline projects; three with highway projects; two with bridges; and one was a survey of regional wrought iron cross cemeteries.

## FIELD METHODS

The cultural resource inventory conformed to *North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects* (SHSND 2012). Keitu provided shapefiles of the APE prior to the inventory and MAC staff loaded these files onto hand-held GPS units to identify the boundaries of the APE in the field. The inventory employed a pedestrian transect methodology with transects spaced no more than 15 to 20 meters apart. The archaeologists paid special attention to areas of enhanced GSV such as rodent back dirt piles, blowouts, and cutbanks. The APE boundaries were mapped using a hand-held GPS unit. Field conditions were documented with digital photographs (Figures 2-3) and detailed in field notes. All electronic and paper records are on file at the MAC Bismarck office.

When the archaeologists found an artifact or feature, they marked the location with a metal pin flag and intensively investigated the surrounding area with transects spaced at less than five meter intervals to determine if other artifacts or features were present. For the purposes of this inventory, a location with fewer than 5 artifacts and no features was defined as an isolated find. Conversely, a location with at least five artifacts or one or more features in association with any number of features was designated as a site. The archaeologists filled out site forms in the field, recorded the locations of sites and isolated finds with the aid of a hand-held GPS unit, and documented field conditions and encountered resources in field notes and with digital photographs.

The archaeologists placed shovel probes in two separate locations in areas of heightened potential for cultural resources and poor ground surface visibility. All probes were placed in native prairie and were negative for cultural materials. The results of the shovel probes are presented in Table 2.

<b>SP #</b>	<b>SP #</b>	<b>Soil</b>	<b>Cultural Material</b>
1	0-22 cm 22-32 cm	Grayish brown silty loam; 5% stoniness, angular clinker Grayish brown silty loam; 40% stoniness, angular clinker	None
2	0-36 cm 36-62 cm 62-73 cm	Grayish brown silty loam Dark grayish brown silty loam Dark grayish brown silty clay	None
3	0-7 cm 7-50 cm	Root matt Dark brown silt/silt loam. Soil is dry and compact to 40 cm	None
4	0-12 cm 12-55 cm	Root Zone Brown silt/silt loam. Soil is dry and compact, but moistens somewhat at 55 cm	None

## RESULTS

Six new cultural resources were located during this inventory. Sites 32BI1116 and 32SK1070 are historic dumps. Site 32DU1789 is a historic cultural material scatter. Isolates 32BIx919, 32BIx920, and 32SKx363 are prehistoric lithics.

### ***32BI1116***

Site 32BI1116 is a dump (Figure 4). The dump contains at least two collapsed buildings and most of the artifacts are related to building construction, including wood and metal framing materials. One of the buildings appears to have been more recent than the other, but this could not be confirmed due to the mixture of materials, which include both historic and modern items. Artifacts include metal fencing and a few pieces of glass.

The dump has integrity of location, setting, materials, and feeling. However, much of the material appears to be less than 50 years in age. Dumps such as this are generally not considered eligible for inclusion in the NRHP. No further work is recommended on this site.

### ***32SK1070***

Site 32SK1070 is a dump measuring approximately 5 meters by 5 meters (Figure 5). The site contains both historic and modern materials, including 30 metal cans, 12 clear glass bottles, one old wooden barrel, three two-foot diameter metal hoops, six Weight Watchers soda cans, one metal bucket, and one charcoal grill.

The dump has integrity of location, setting, materials, and feeling. However, much of the material appears to be less than 50 years in age. Dumps such as this are generally not considered eligible for inclusion in the NRHP. No further work is recommended on this site.



Figure 4: View to the east over 32BI1116 (Image B-1).



Figure 5: View over 32SK1070 looking west (Image 3478).

### **32DU1789**

Site 32DU1789 consists of a sparse historic cultural material scatter (Figure 6).

The site contains multiple, colored glass, fragments: five purple, thirteen blue, one brown, and four colorless. The site also includes 30 whiteware ceramic fragments, one earthenware fragment, one porcelain fragment, and five metal fragments including a square nut/bolt. The metal is possibly discarded tractor parts.

The site lacks integrity as cultivation has impacted it to an unknown extent. Additionally, the construction of two roads – an abandoned one and one currently in use - has disturbed and/or destroyed much of the site area. Considering these factors, this sparse cultural material scatter is not considered eligible for the NRHP.



Figure 6: View over 32DU1789 looking south (Image 3486).

### **32BIx919**

Isolate 32BIx919 is a Knife River flint (KRF) Size Grade (SG) 2 secondary flake; one quarter of the dorsal side is cortex and one lateral edge exhibits use-wear.

### **32BIx920**

Isolate 32BIx920 is a KRF, SG3 tertiary flake. The isolate was in a cultivated field with small grain residue and 30 to 40 percent GSV.

### **32SKx363**

Isolate 32SKx363 is a broken projectile point, possibly McKean Complex. The material is moss agate. The isolate was located in a cultivated field with 30 to 40 percent GSV.

## RECOMMENDATIONS

Between September 4-6, and on September 25, 2012, archaeologists from MAC conducted a Class III cultural resource inventory of the proposed Dickinson Loop Pipeline right-of-way. Keitu requested the inventory on behalf of Belle Fourche Pipeline Company. The undertaking consists of the construction of a 17.4 mile long pipeline and terminus in Billings, Dunn, and Stark counties, North Dakota. The pipeline construction corridor will be 250 feet wide and the terminus will encompass a 44 acre block. The project corridor was 250 feet wide. The total inventory area was 571 acres.

Six cultural resources were recorded. Sites 32BI1116 and 32SK1070 are both historic dumps and 32DU1789 is a historic cultural material scatter. Isolates 32BIx919, 32BIx920, and 32SKx363 are prehistoric lithics. Metcalf Archaeological Consultants, Inc. considers that none of the cultural resources satisfy any of the criteria necessary to be eligible for the NRHP and no further work is necessary. Metcalf Archaeological Consultants, Inc. recommends a determination of *No Historic Properties Affected* (36CFR800.4[d][1]) for the undertaking as inventoried, mapped, and documented herein.

## REFERENCES CITED

Bluemle, J. P.

2000 *The Face of North Dakota*, 3<sup>rd</sup> Edition. Education Series 26. North Dakota Geological Survey. Bismarck, North Dakota.

State Historical Society of North Dakota (SHSND)

2008 *The North Dakota Comprehensive Plan for Historic Preservation: Archeological Component*. <http://history.nd.gov/hpforms.html>.

2012 *North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects*. <http://history.nd.gov/hp/PDFinfo/ND%20SHPO%20Guidelines%20Manual.pdf>.

## APPENDIX A: PROJECT MAPS

Maps Remove

## APPENDIX B: FILES SEARCH

T/R-Section	SITS #	Site Type & Description	Recorder, Date	Eligibility	Tested	MS #
	32SK0102	Archaeological-cultural material scatter- faunal remains, chipped stone	Good/Carmichael, 1973	Unevaluated	No	69, 79, 6448, 8295, 12311
	No Sites					8295, 12311
	32SK1041	Multicomponent site: Architectural-farmstead, Historic-foundation, cultural material scatter- hide/hair/fur, rubber, wood, metal, plastic	Palmer, 2011	Not Eligible	No	8295, 12311
	32SKx0311	Archaeological-isolated find: chipped stone	Wermers, 2002	Not Eligible	No	
	No Sites					4667, 12311
	No Sites					69, 4595, 4638, 4667, 8529, 12311
	32SK0815	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	68, 69, 4595, 4638, 5048, 6448, 7177, 12311
	32SK0816	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	
	32SK0817	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	
	32SK0818	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	
	32SK0819	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	
	32SKx0052	Archaeological-isolated find: chipped stone	Deaver, 1988	Not Eligible	No	
	32SKx0073	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0074	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0075	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0076	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SK0809	Archaeological-cultural material scatter- projectile point, chipped stone	Floodman, 1989	Unevaluated	No	68, 69, 5048, 6569, 7177, 12311
	32SK0810	Archaeological-cultural material scatter- chipped stone, projectile point	Floodman, 1989	Unevaluated	No	
	32SK0812	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	
	32SK0813	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	
	32SK0829	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	
	32SKx0064	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0065	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SK0814	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	68, 69, 2772, 4595, 4638, 4667, 5048, 7177
	32SK0822	Archaeological-cultural material scatter- faunal remains, projectile point, chipped stone	Floodman, 1989	Unevaluated	No	
	32SK0823	Archaeological-cultural material scatter- faunal remains, chipped stone, ground stone	Floodman, 1989	Unevaluated	No	
	32SK0826	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Unevaluated	No	

<b>T/R-Section</b>	<b>SITS #</b>	<b>Site Type &amp; Description</b>	<b>Recorder, Date</b>	<b>Eligibility</b>	<b>Tested</b>	<b>MS #</b>
	32SK0830	Archaeological-cultural material scatter- ceramics, chipped stone	Floodman, 1989	Unevaluated	No	
	32SK0853	Architectural-bridge	Whitehurst, 1988	Not Eligible	No	
	32SKx0033	Historic-site lead: mine	Benson, 1980	Unevaluated	No	
	32SKx0066	Archaeological-isolated find: projectile point	Floodman, 1989	Not Eligible	No	
	32SKx0067	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0068	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0071	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0072	Archaeological-isolated find: projectile point	Floodman, 1989	Not Eligible	No	
	32SKx0282	Archaeological-isolated find: chipped stone	Floodman, 1981	Not Eligible	No	
	32SK0008	Archaeological-cultural material scatter- faunal remains, chipped stone	Floodman, 1980	Unevaluated	No	68, 69, 2772, 4595, 4638, 5048, 8742, 10128, 12311
	32SK0009	Historic-foundation, depression, machinery, cultural material scatter- ceramics, glass, masonry, metal, wood	Floodman, 1980	Not Eligible	No	
	32SK0101	Archaeological-cultural material scatter- chipped stone	Good/Carmichael, 1973	Unevaluated	No	
	32SK0824	Archaeological-cultural material scatter- faunal remains, projectile point, chipped stone	Floodman, 1989	Unevaluated	No	
	32SK0825	Archaeological-cultural material scatter- chipped stone	Floodman, 1989	Not Eligible	No	
	32SK0853	Architectural-bridge	Whitehurst, 1988	Not Eligible	No	
	32SK0971	Architectural-bridge	Hufstetler/McCormick, 2000	Not Eligible	No	
	32SKx0069	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0070	Archaeological-isolated find: chipped stone	Floodman, 1989	Not Eligible	No	
	32SKx0283	Archaeological-isolated find: chipped stone	Floodman, 1981	Not Eligible	No	
	32SKx0284	Archaeological-isolated find: chipped stone	Floodman, 1981	Not Eligible	No	
	No Sites					12311
	No Sites					12311
	No Sites/No Surveys					
	No Sites					12311
	No Sites/No Surveys					
	32SKx0141	Architectural-site lead: farmstead	Crosby, 1991	Unevaluated	No	No Surveys
	No Sites					12311
	No Sites/No Surveys					
	No Sites					6355, 12311
	No Sites					6355, 12311

Table B - 1: Site Files Search Results - Keitu - Dickenson Loop PL						
T/R-Section	SITS #	Site Type & Description	Recorder, Date	Eligibility	Tested	MS #
	No Sites					12311
	No Sites					12311
	No Sites					12311, 13211
	32SK1036	Multicomponent site: Architectural-residence, Historic-foundation, cultural material scatter- glass, metal, wood	Palmer, 2011	Not Eligible	No	12311, 13211
	32SKx0344	Archaeological-site lead: other stone feature	Hurt, 2011	Unevaluated	No	
	32SK1040	Multicomponent site: Architectural-Burda Homestead, Historic-cultural material scatter- wood, metal	Palmer, 2011	Not Eligible	No	12311, 13211
	32SKx0121	Historic-site lead: mine	LCT, 1990	Unevaluated	No	6355, 12311, 13211
	32SK0109	Historic-depression, cultural material scatter- metal	Klinner/Wermers, 1994	Not Eligible	No	6355
	32SKx0122	Historic-site lead: mine	LCT, 1990	Unevaluated	No	
	32SKx0045	Historic-site lead: Camp 9	Benson, 1980	Unevaluated	No	6355, 12311
	No Sites					6355, 8295
	No Sites					8295
	No Sites					6355, 7677, 8295, 12311, 13211
	No Sites					8295, 12311, 13211
	No Sites					12311
	No Sites					12311
	No Sites					8529, 8535
	No Sites					8529, 8535
	No Sites					12311
	No Sites					12311
	No Sites					12311
	No Sites/No Surveys					
	32DUx0636	Historic-isolated find: metal, wood	Wermers, 2003	Not Eligible	No	8526
	No Sites					8526, 8529
	32DU1280	Multicomponent site: Architectural-farmstead, Historic-machinery, cultural material scatter- masonry, metal, rubber, wood	Schweigert, 2002	Not Eligible	No	8529, 12311
	No Sites/No Surveys					
	No Sites					8529, 8535

<b>Table B - 1: Site Files Search Results - Keitu - Dickenson Loop PL</b>						
<b>T/R-Section</b>	<b>SITS #</b>	<b>Site Type &amp; Description</b>	<b>Recorder, Date</b>	<b>Eligibility</b>	<b>Tested</b>	<b>MS #</b>
	No Sites					8529, 12311
	No Sites					8526, 12311
	32DU1282	Historic-concrete wall, cultural material scatter- masonry	Wermers, 2003	Not Eligible	No	8526
	32BI0895	Architectural-Ss Peter and Paul Cemetery	Nesemeier/Isern, 1999	Eligible	No	6953, 7725
	32BI0924	Multicomponent site: Architectural-St. Demetrius Ukrainian Catholic Church, Historic-foundation, depression, cultural material scatter	Benson, 1980	Unevaluated	No	
	32BIx0030	Archaeological-site lead: cultural material scatter- projectile point, chipped stone, ground stone	Picha, 2000	Unevaluated	No	
	32BIx0047	Historic-site lead: Ukania Post Office	Benson, 1980	Unevaluated	No	
	No Sites					6953, 11791
	No Sites					11791
	32BI0919	Architectural-bridge	Hufstetler/ McCormick, 2000	Not Eligible	No	4744, 10128
	32BIx0413	Archaeological-isolated find: chipped stone	Martorano, 1988	Not Eligible	No	
	32BIx0414	Archaeological-isolated find: chipped stone	Martorano, 1988	Not Eligible	No	
	32BIx0415	Archaeological-isolated find: projectile point	Martorano, 1988	Not Eligible	No	
	32BI0919	Architectural-bridge	Hufstetler/ McCormick, 2000	Not Eligible	No	10128
	32BIx0036	Archaeological-isolated find: chipped stone	Flemmer, 2000	Not Eligible	No	11791
	No Sites					6953, 12222
	No Sites					6953, 12222
	No Sites/No Surveys					
	No Sites/No Surveys					
	32BIx0416	Archaeological-isolated find: chipped stone	Martorano, 1988	Not Eligible	No	4744
	32BIx0417	Archaeological-isolated find: chipped stone	Martorano, 1988	Not Eligible	No	4744
	32BIx0418	Archaeological-isolated find: chipped stone	Martorano, 1988	Not Eligible	No	
	No Sites/No Surveys					
	No Sites					6953
	No Sites/No Surveys					
	32BIx0419	Archaeological-isolated find: chipped stone	Martorano, 1988	Not Eligible	No	4744

<b>Table B - 2: Manuscript Files Search Results - Keitu - Dickenson Loop PL</b>	
<b>MS #</b>	<b>Reference</b>
68	Cooper, P. 1947 Preliminary Appraisal of the Archeological and Paleontological Resources of Dickinson Reservoir, Stark County, North Dakota
69	Carmichael, G. 1974 Results of the Archaeological Survey of the Proposed Versippi Reservoir and Dickinson Reservoir Project, Stark County, North Dakota
79	Econ, Inc. 1977 Interpretive Guide: Archaeological Photo Interpretation and Feasibility Study of a Five County Area in West Central North Dakota Using Small Scale (1:80,000) Aerial False Color Infrared
2772	Rippeteau, B. 1980 A Cultural Resource Survey for Viegel Engineering, P.C., Heart River Rechannel, River Rechannel and Road Fill, Stark County, North Dakota
4595	Deaver, K. and S. Deaver 1988 Preliminary Report an Pedestrian Sample of the Sprint Line in Stutsman, Kidder, Stark, Billings, Cass, Golden Valley, Burleigh, Morton Counties, North Dakota
4638	Deaver, K., S. Deaver, M. Bergstrom, J. Brownell, and D. Martin 1988 US Sprint Fiber Optic Cable Project Spokane, Washington to Fargo, Billings, Stark, Golden Valley, Morton, Kidder, Stutsman, Burleigh, and Cass Counties, North Dakota
4667	Persinger, R., J. Whitehurst, J. Dahlberg 1988 A Class III Cultural Resource Inventory of a Proposed 46 KV Transmission Line in Stark and Hettinger Counties, North Dakota
4744	Mortrano, M., D. Killam, and P. Friedman 1990 Class I Literature Search and Class III Intensive Inventory Charlie Creek to Belfield 345-KV Transmission Line Project, Stark, McKenzie, Dunn, and Billings Counties, North Dakota
5048	Floodman, M. 1990 Edward Patterson Lake Cultural Resources Inventory Stark County, North Dakota
6355	Borchert, J., G. Wermers, and C. Kordecki 1995 Southwest Pipeline Phase II Cultural Resources Inventory of Selected Segments, Stark and Dunn Counties, North Dakota: New Hradec, Taylor, and Davis Buttes Service Areas (Construction Segment 7-1B) Part I and II
6448	Kordecki, C. 1995 Southwest Pipeline Phase II Cultural Resources Inventory of Selected Segments, Hettinger, Slope, and Stark Counties, North Dakota: Belfield and New England Service Areas (Construction Segments 7-2 and 2-5A)
6569	Olson, B. 1995 32SK809 and 32SK829: Evaluative Testing of Two Late Archaic Sites Stark County, North Dakota
6953	Klinner, D. 1997 ND533-Consolidated Telephone Cooperative, South Heart Exchange Cable Improvements in Stark, Billings, and Slope Counties, North Dakota UW#1954
7177	Klinner, D., G. Wermers, M. Jackson, and D. Toom 1999 Dickinson Dam 1996 Archeological Site Evaluation Project, Stark County, North Dakota UW#1844
7677	Rom, L. 2000 Cultural Resources Inventory of Sioux Falls Tower Specialists Inc's Communication Towers in Barnes, Billings, Burleigh, Cass, Golden Valley, Kidder, Stark, Stutsman, and Morton Counties, North Dakota
7725	Isern, T. and K. Nesemeier 1999 Wrought Iron Cross Cemeteries in North Dakota- Continuing Survey, 1998-99 (Public Report)
8295	Wermers, G. 2002 Interstate 94 Right-of -Way Class III Inventory, South Heart to Dickinson, Stark County, North Dakota UW#2337b

<b>Table B - 2: Manuscript Files Search Results - Keitu - Dickenson Loop PL</b>	
<b>MS #</b>	<b>Reference</b>
8526	Wermers, G. 2003 Road Improvement Project SC-1356[054] in Dunn, County, North Dakota UW#2376
8529	Schweigert, K. 2003 Cultural Resources Inventory and Evaluation for the Proposed Grasslands Project in Billings, Dunn, Golden Valley and Stark Counties, North Dakota
8535	ACRE 2003 Results of Supplemental Surveys Conducted for the Proposed Grasslands Project in Billings, Dunn, Golden Valley and Stark Counties, North Dakota and 2 Addendums
8742	Wermers, G. 2003 Stark County Bridge Replacement Project in [REDACTED], North Dakota, Structure 45-116-11.0 UW #2418
10128	Hufstetler, M. and J. Goff 2005 Historic Bridges in North Dakota 2004 Revision
11791	France, E. and D. Reinhart 2010 Bridger Pipeline Project: Class I and III Cultural Resource Investigations in Western North Dakota, Dunn, Billings, McKenzie Counties
12222	Lechert, S. and C. Herson 2011 A Class I and Class III Cultural Resource Inventory of Whiting Belfield Oil Pipeline, Stark and Billings Counties, North Dakota
12311	Odonnchadha, B., R. Glaab, I. Randall, and K. McDowell 2011 CTC Dickinson Fiber Optic Line Exchange Project: A Class III Cultural Resource Inventory in Dunn, Hettinger and Stark Counties, North Dakota. Addendum Included.
13211	HDR 2012 Dickinson Bypass Project Class III Intensive Cultural Resource Inventory Stark County, North Dakota

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**10-inch Crude Oil Loop Pipeline  
Billings, Dunn, and Stark Counties**

**Consolidated Siting Application**

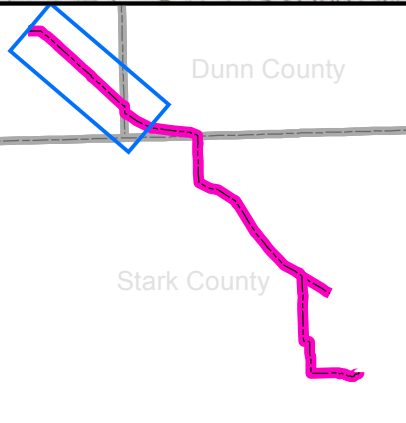
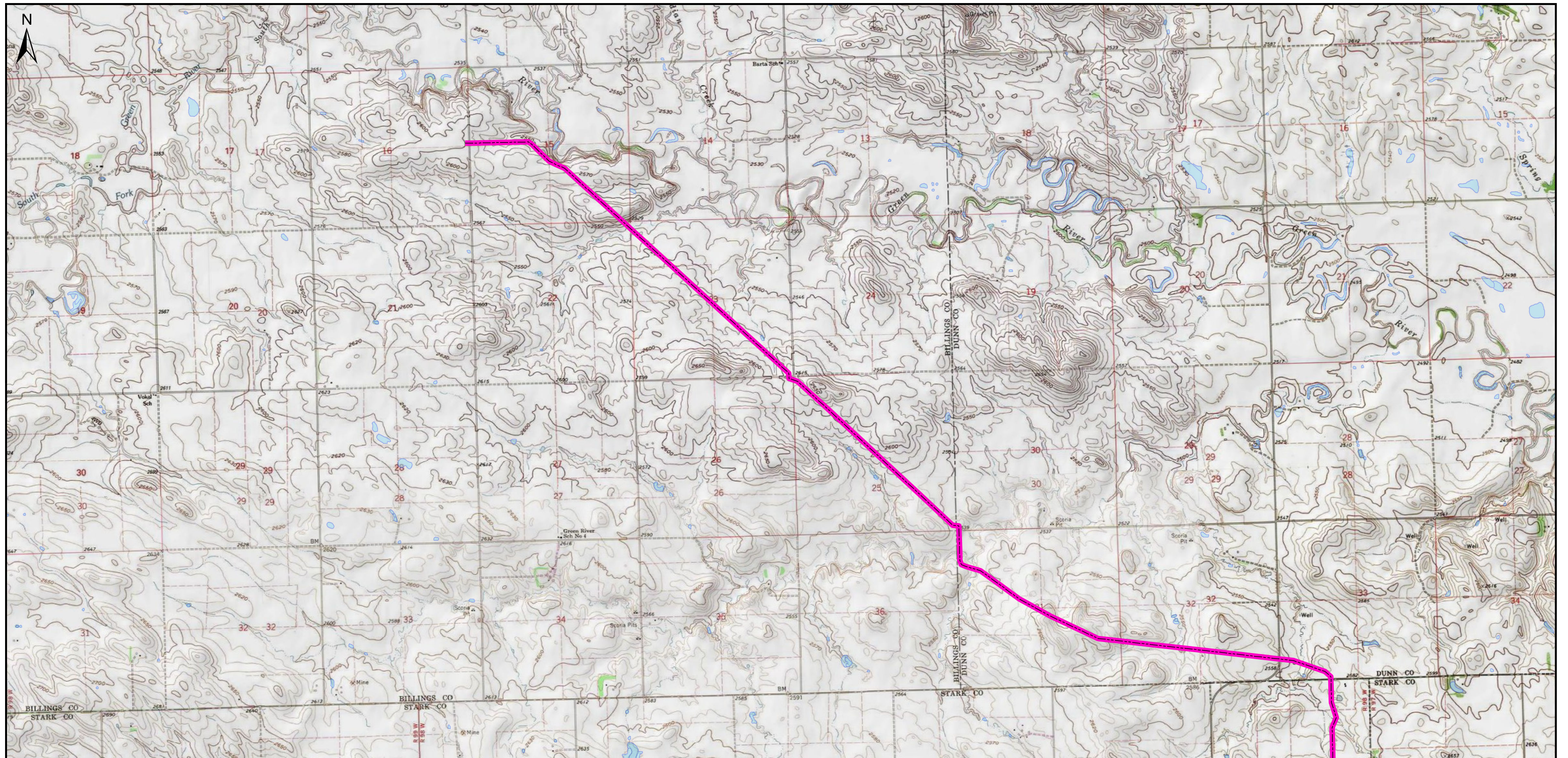
**APPENDIX 4.B MAPS**



**Belle Fourche Pipeline Company**  
455 North Poplar Street  
Casper, Wyoming 82602

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**March 2014**



**Legend**

- Project Centerline
- NWI Wetland

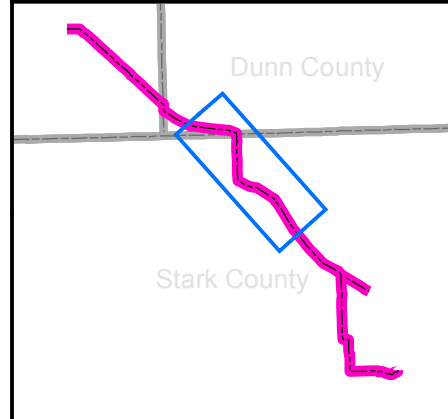
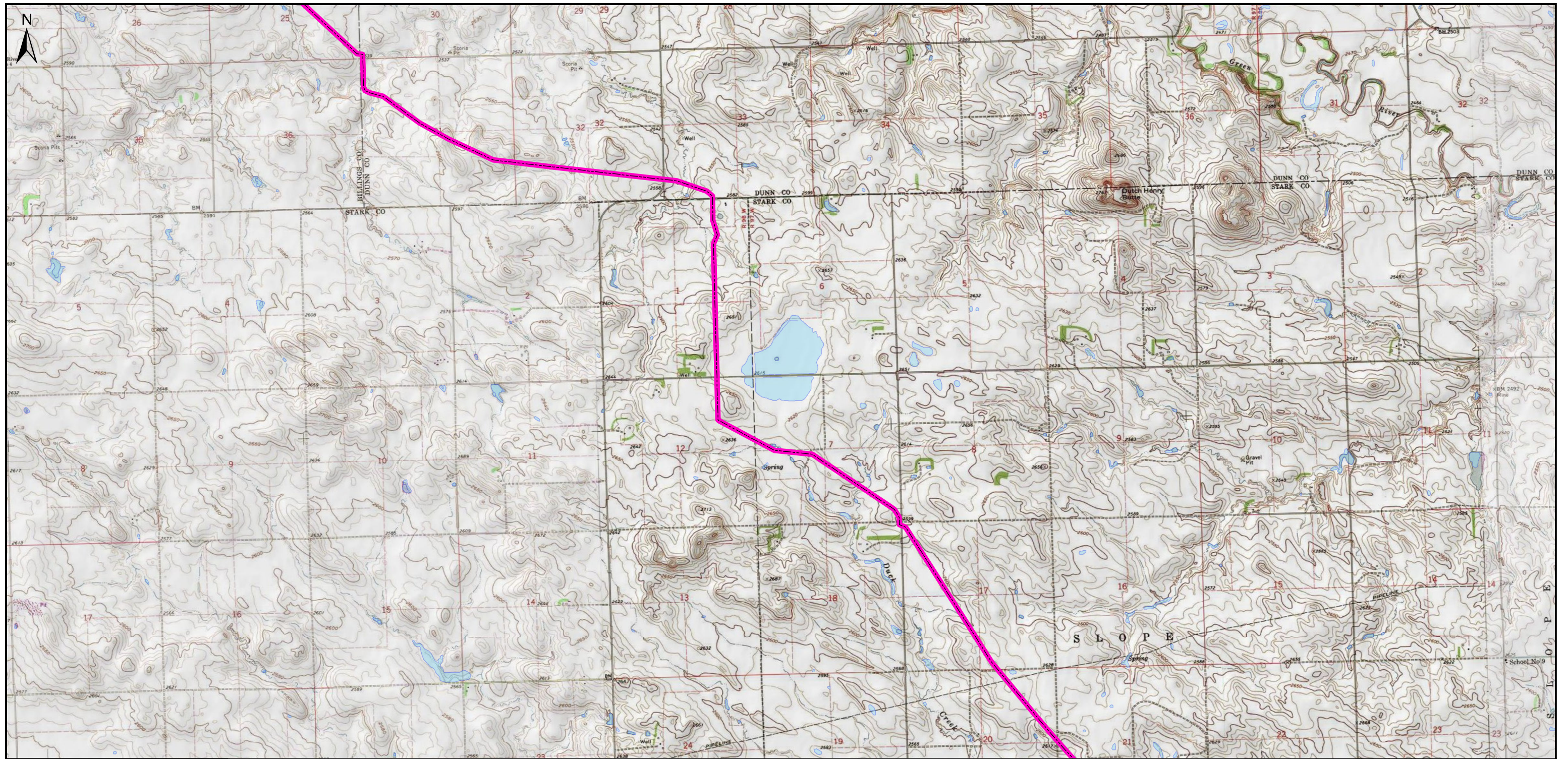
0    0.25    0.5    1  
Miles



**10-inch Crude Oil  
Loop Pipeline**

Figure 4.B.1a - Route Map


Printed: 3/7/2014



**Legend**

- Project Centerline
- NWI Wetland

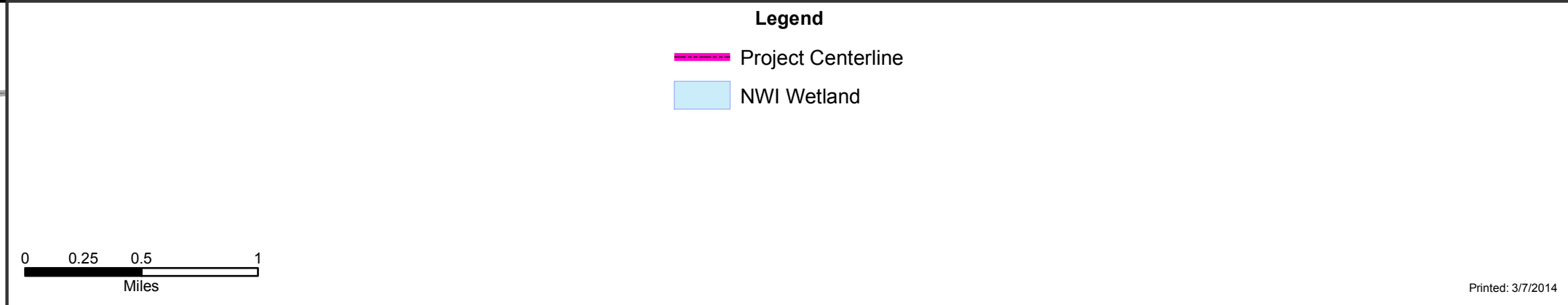
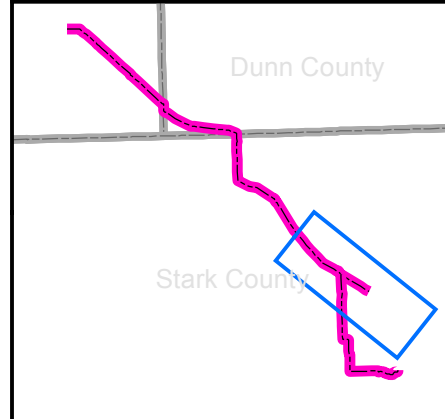
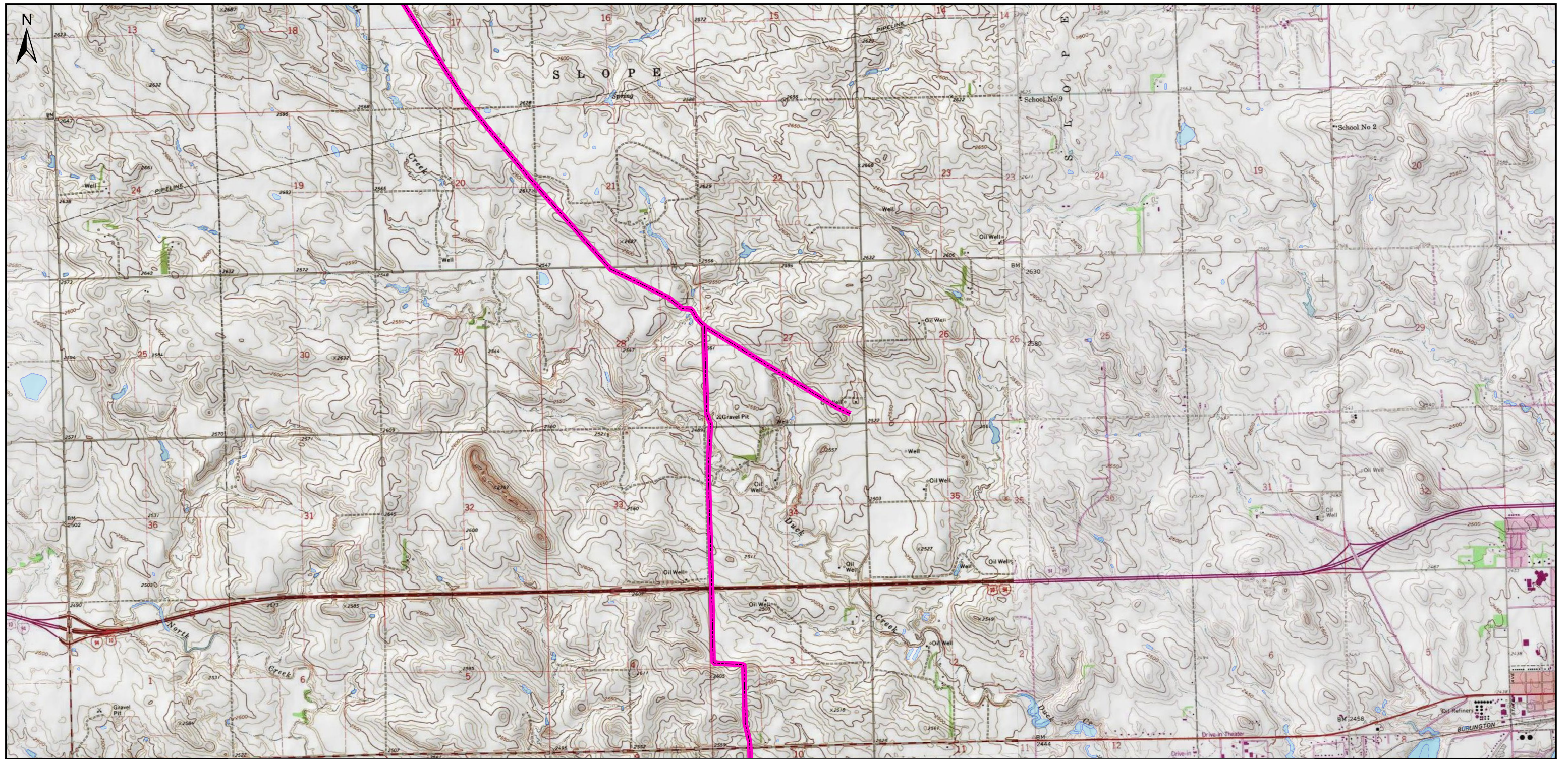
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Miles




**10-inch Crude Oil  
Loop Pipeline**

Figure 4.B.2a - Route Map

Printed: 3/7/2014

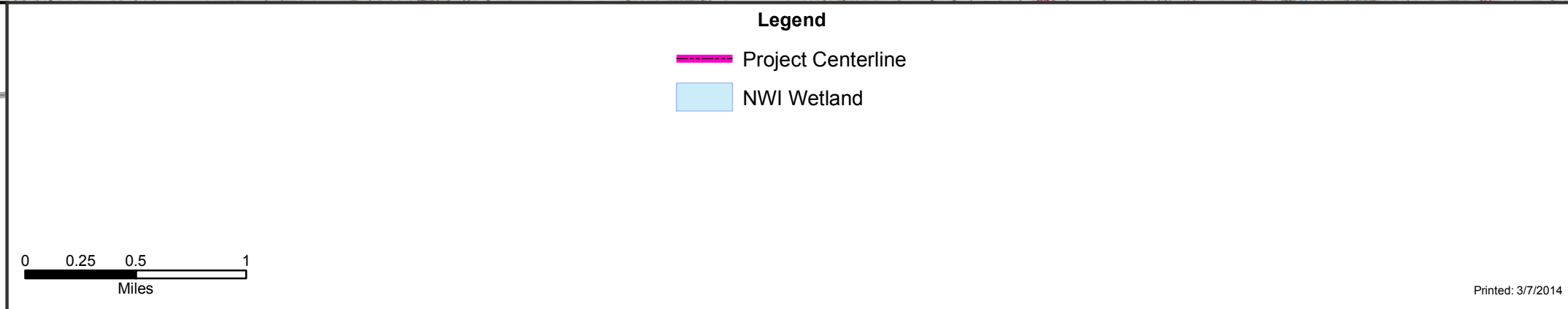
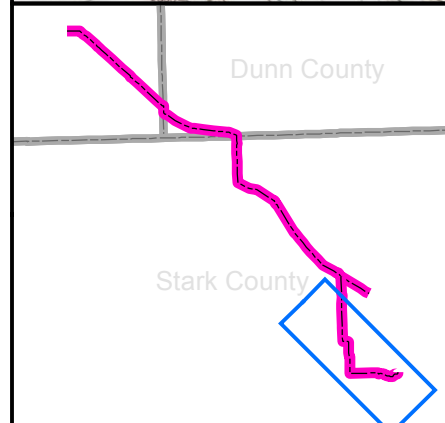
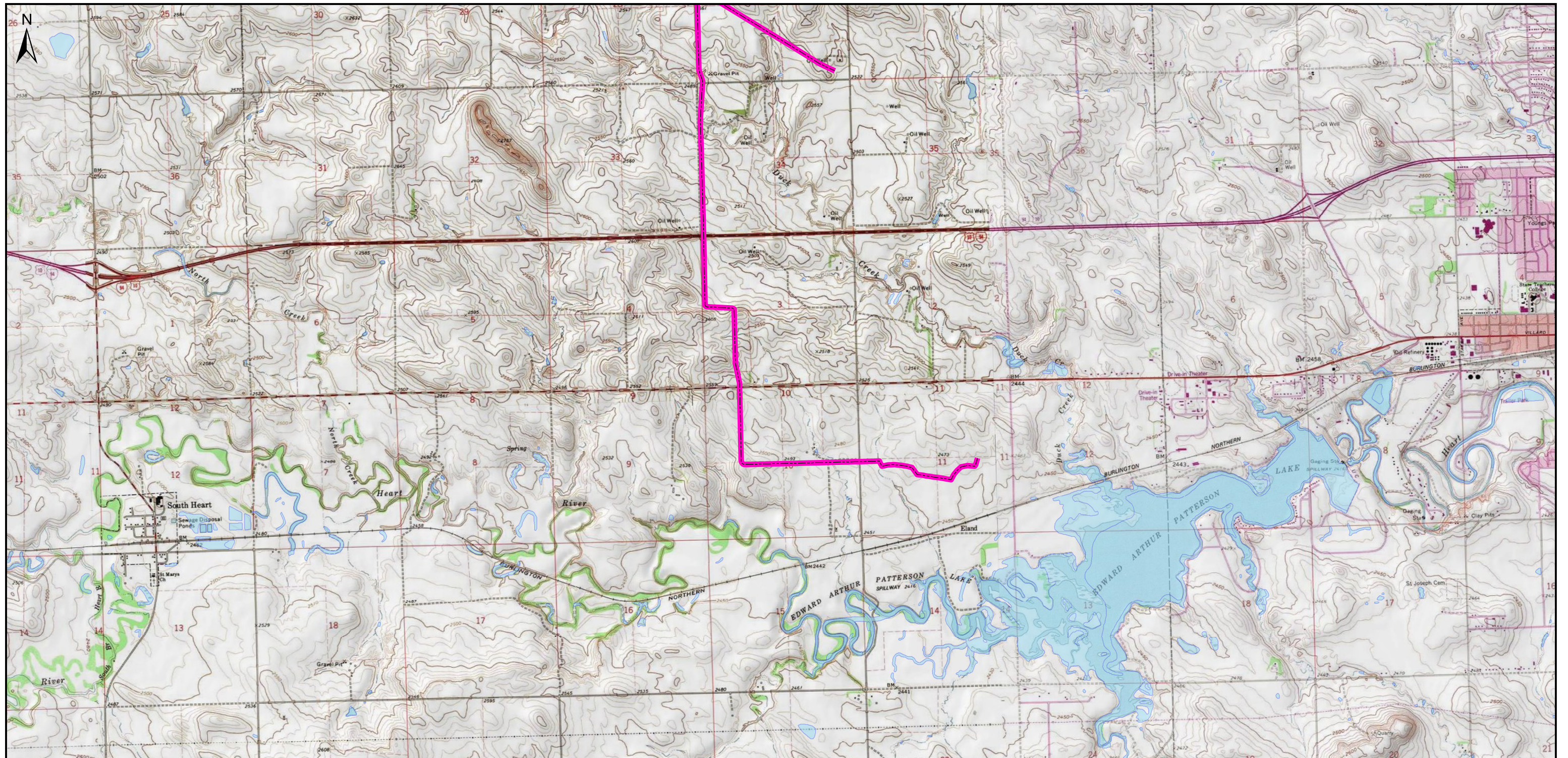





**10-inch Crude Oil Loop Pipeline**

Figure 4.B.3a - Route Map

Printed: 3/7/2014

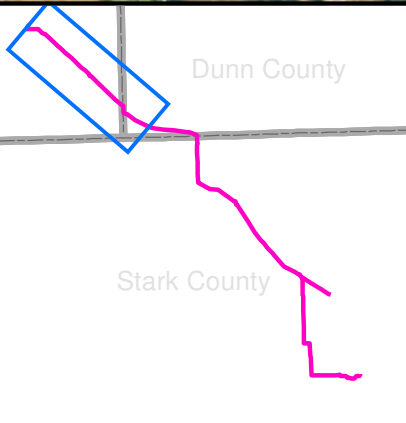
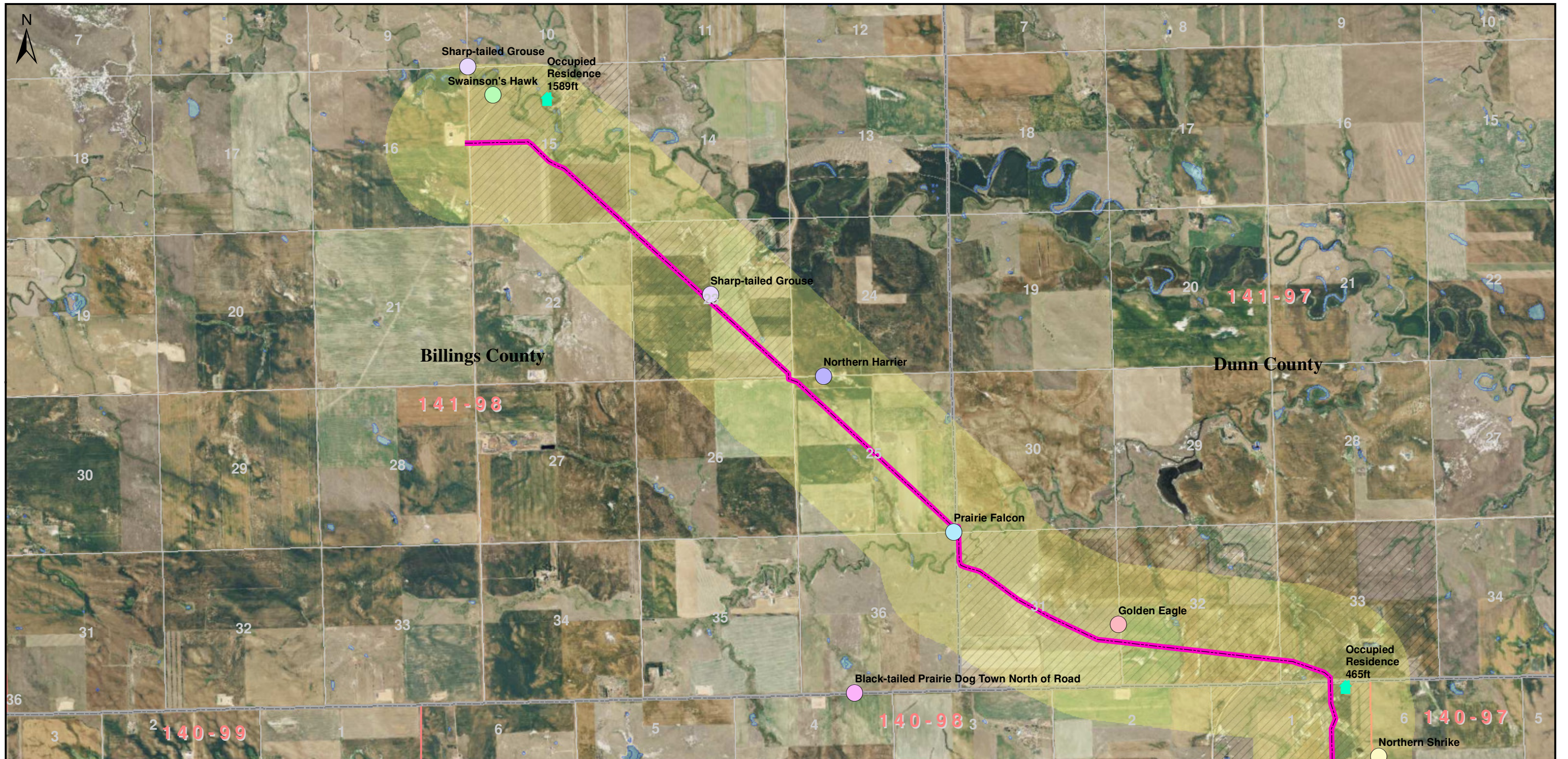




**10-inch Crude Oil  
Loop Pipeline**

Figure 4.B.4a - Route Map


Printed: 3/7/2014



**Legend**

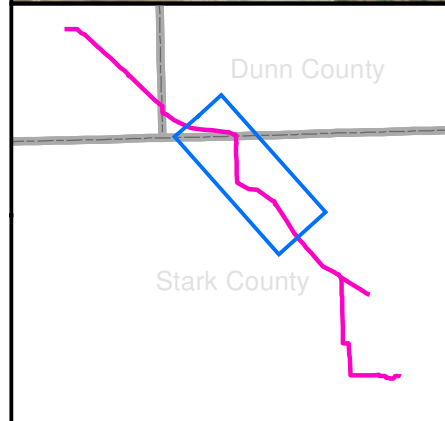
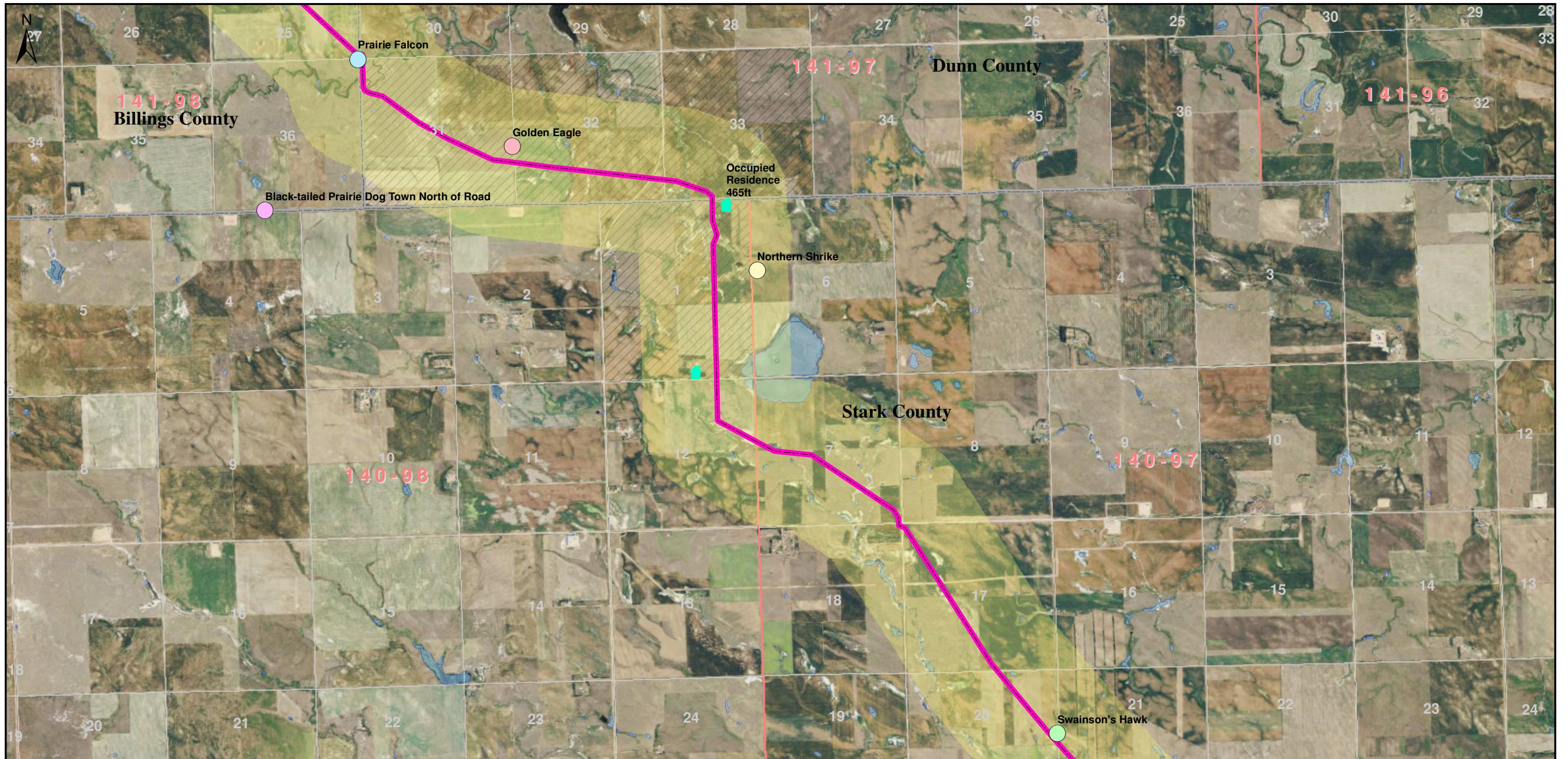
Project Centerline	Black-tailed Prairie Dog Town North of Road
Occupied Residence	Golden Eagle
Study Area	Northern Harrier
Redacted Cultural Inventory	Northern Shrike
NWI Wetland	Prairie Falcon
County	Sharp-tailed Grouse
Township	Swainson's Hawk
Section	

0 0.25 0.5 1  
Miles



**10-inch Crude Oil Loop Pipeline**  
Figure 4.B.1b - Route Map


Printed: 3/7/2014



**Legend**

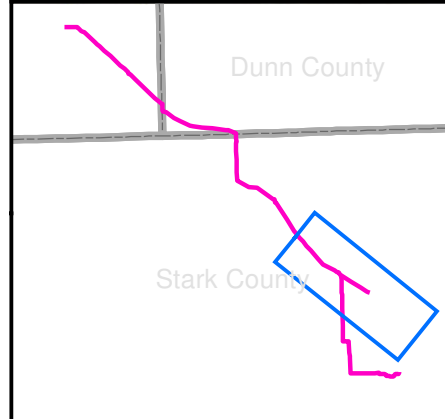
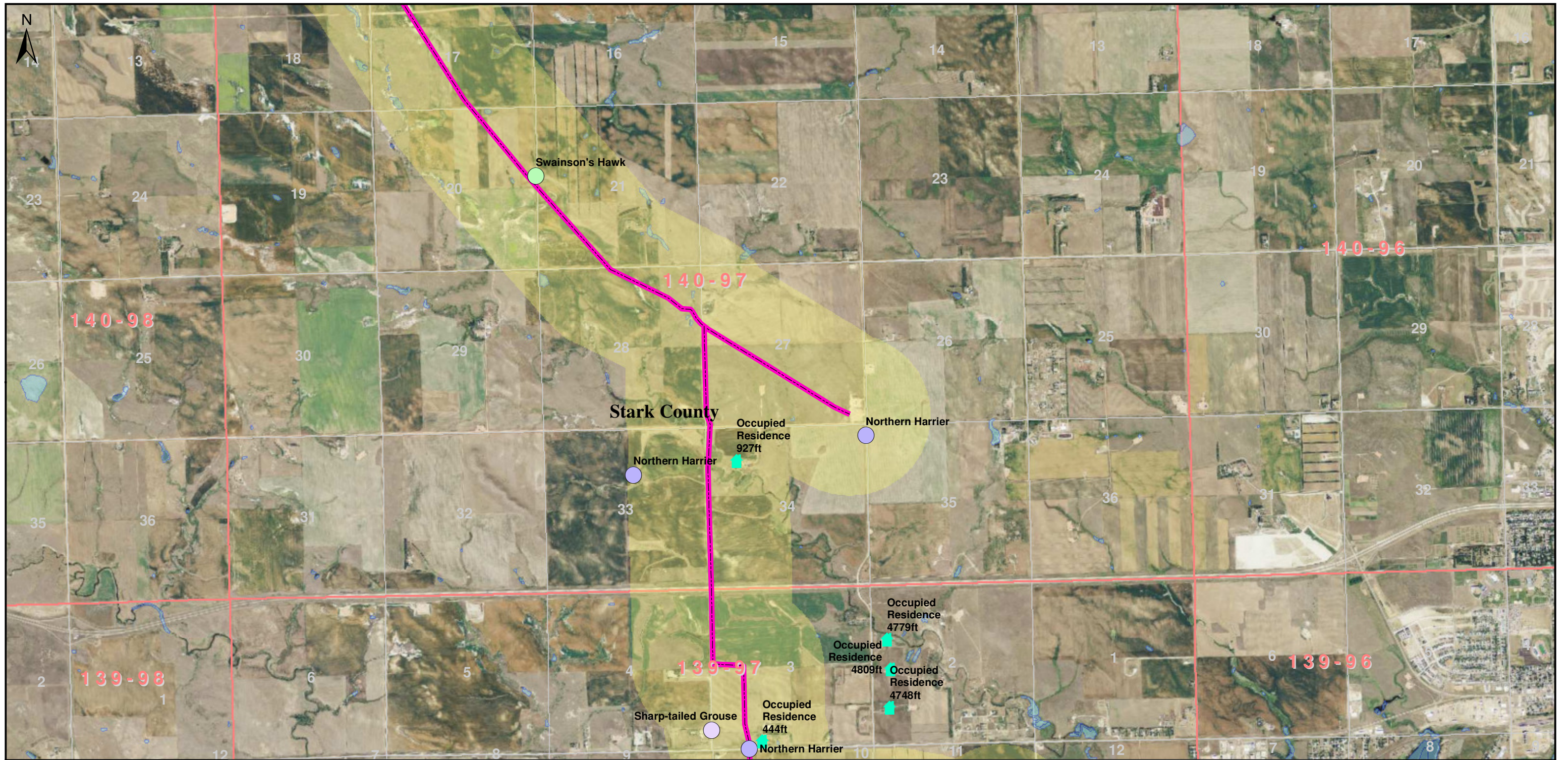

Project Centerline	Black-tailed Prairie Dog Town North of Road
Occupied Residence	Golden Eagle
Study Area	Northern Harrier
Redacted Cultural Inventory	Northern Shrike
NWI Wetland	Prairie Falcon
County	Sharp-tailed Grouse
Township	Swainson's Hawk
Section	

0 0.275 0.55 1.1  
Miles



**10-inch Crude Oil Loop Pipeline**  
Figure 4.B.2b - Route Map

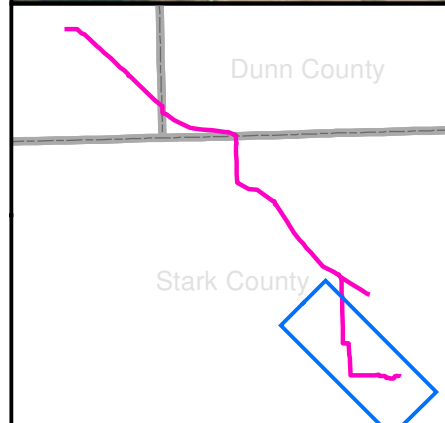
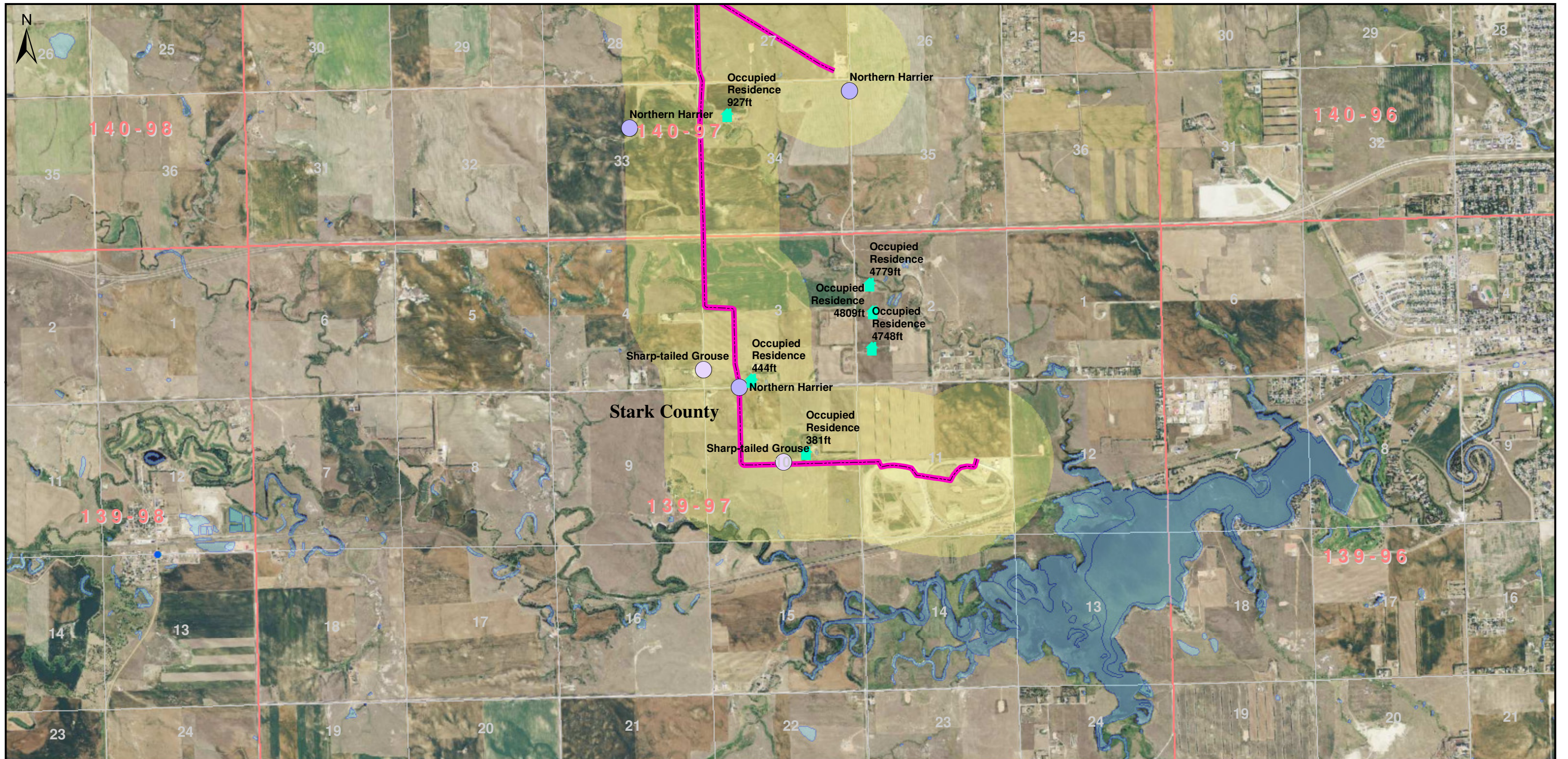
Printed: 3/7/2014

**10-inch Crude Oil Loop Pipeline**

Figure 4.B.3b - Route Map


Printed: 3/7/2014



**Legend**

Project Centerline	Black-tailed Prairie Dog Town North of Road
Occupied Residence	Golden Eagle
Study Area	Northern Harrier
Redacted Cultural Inventory	Northern Shrike
NWI Wetland	Prairie Falcon
County	Sharp-tailed Grouse
Township	Swainson's Hawk
Section	

0 0.25 0.5 1  
Miles



**10-inch Crude Oil Loop Pipeline**  
Figure 4.B.4b - Route Map

Printed: 3/7/2014

### APPENDIX 4.C LANDOWNER LIST

#### Billings County

Section	Twp	Range	Owner	Address	City, State, ZIP
15	141N	98W	BENJAMIN F & EVELYN VOLESKY	1171 31ST ST SW	DICKINSON ND 58601
15	141N	98W	ROY & CHERYL KRIVORUCHKA	12236 26TH ST SW	BELFIELD ND 58622
22, 23, 26	141N	98W	ROBERT & OTTILIA VOLESKY	1266 SENTINAL BUTTE #216	DICKINSON ND 58601
25	141N	98W	RANDOLPH P KUNTZ	2931 121ST AVE SW	BELFIELD ND 58622
25	141N	98W	PATRICK G & JANE M FRANK	3005 122ND AVE SW	DICKINSON ND 58601
25	141N	98W	CAROL FRANK	3009 122ND AVE SW	DICKINSON ND 58601

#### Dunn County

Section	Twp	Range	Owner	Address	City, State ZIP
31	141N	97W	ANITA GAIL KUNTZ	12161 31ST ST SW	DICKINSON, ND 58601
32	141N	97W	ROBERT M WOCK	3051 121ST AVE SW	DICKINSON, ND 58601
32	141N	97W	ARNOLD P & KAREN M ZELINSKY	2941 118TH AVE SW	DICKINSON, ND 58601
30,33	141N	97W	GLADYS FAIMAN & CONNIE FICHTER FAIMAN FARMS LIMITED PARTNERSHIP	2839 118TH AVE SW	DICKINSON, ND 58601

**Stark County**

<b>Section</b>	<b>Twp</b>	<b>Range</b>	<b>Owner</b>	<b>Address</b>	<b>City, State, ZIP</b>
1	140N	98W	GLADYS FAIMAN & CONNIE FICHTER FAIMAN FARMS LIMITED PARTNERSHIP	2839 118TH AVE SW	DICKINSON, ND 58601
1	140N	98W	DANIEL H OUKROP DOUKROP FAMILY TRUST	1481 1ST ST E	DICKINSON, ND 58601
12	140N	98W	MONTE L & SUSAN KUBAS	12066 31ST ST SW	DICKINSON, ND 58601
12	140N	98W	CRAIG & NICOLE KUBAS	4024 100TH AVE SW	GLADSTONE, ND 58630
12	140N	98W	KEVIN & MARQUEL A BERGER	811 N 35TH ST	BISMARCK, ND 58501
12	140N	98W	TYSON KUBAS	2155 10TH AVE W UNIT 4	DICKINSON, ND 58601
7	140N	97W	DANIEL H OUKROP	1481 1ST ST E	DICKINSON, ND 58601
7	140N	97W	ANDREW RAMBOUSEK	3071 119TH AVE SW	DICKINSON, ND 58601
7	140N	97W	DAVID HAVELKA	P.O. BOX 104	SWANVILLE, MN 56382
17	140N	97W	GERALD G HAVELKA	11661 32ND ST SW	DICKINSON, ND 58601
17, 18, 20	140N	97W	DUANE R & DORIS MARSH	3211 119TH AVE SW	DICKINSON, ND 58601
17, 20	140N	97W	FRANCES MARSH	643 26TH ST W	DICKINSON, ND 58601
17, 27, 28	140N	97W	ARTHUR S RIDL, KURT D RIDL, KEITH L RIDL	11425 34TH ST SW	DICKINSON, ND 58601

Belle Fourche Pipeline Company  
Route Certificate Application Exhibits  
10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>Section</b>	<b>Twp</b>	<b>Range</b>	<b>Owner</b>	<b>Address</b>	<b>City, State, ZIP</b>
21, 34	140N	97W	RODNEY A KOSTELECKY	11830 34TH ST SW	DICKINSON, ND 58601
21, 34	140N	97W	GORDON J KOSTELECKY	11670 35TH ST SW	DICKINSON, ND 58601
28	140N	97W	HELEN E MARSH	1050 PARK AVE #220	DICKINSON, ND 58601
28	140N	97W	SUSAN M KOPP	915 EATON DR	DICKINSON, ND 58601
27, 35	140N	97W	ROGETTE SHANNON ROGETTE SHANNON IRREVOCABLE TRUST	2735 BERNELL DR	BISMARCK, ND 58503
27	140N	97W	WILLIAM P FALLER, CHARLENE FALLER FALLER REVOCABLE TRUST	11475 34TH ST SW	DICKINSON, ND 58601
2	139N	97W	WILLIAM & COLETTE KLEWIN	516 PARK ST SW	DICKINSON, ND 58601
2	139N	97W	THOMAS & DONNA DUKART	3650 116 <sup>TH</sup> AVE SW	DICKINSON, ND 58601
2	139N	97W	PAUL & JODENE KESSEL	11365 41 <sup>ST</sup> ST SW	DICKINSON, ND 58601
2	139N	97W	TERRY & CINDY TAYLOR	3676 116 <sup>TH</sup> AVE SW	DICKINSON, ND 58601
3	139N	97W	GENE & JEANNE PRAUS	4292 116 <sup>TH</sup> AVE SW	DICKINSON, ND 58601
3	139N	97W	RUDOLPH PAZOUREK, JR	3625 116TH AVE SW	DICKINSON, ND 58601
10	139N	97W	KEN & LEONA BARNHART	11680 HIGHWAY 10 W	DICKINSON, ND58601

**APPENDIX 4.D**

**North Dakota Federal and State Plant Species of Concern**

Belle Fourche Pipeline Company  
 Plant Species of Concern  
 10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>TABLE 4.D.1.A</b>						
<b>NORTH DAKOTA'S PLANT SPECIES OF CONCERN</b>						
<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Acorus americanus</i>	Sweetflag	G5	S4			Peatlands, fens, seeps
<i>Agrostis exarata</i>	Spike Bentgrass	G5	S1		W	Moist habitats
<i>Allium canadense</i>	Meadow Onion	G5	S1			Prairies, open woods
<i>Allium tricoccum</i>	Wild Garlic	G5	S3			Rich undisturbed woods
<i>Apios americana</i>	American Groundnut	G5	SH			Moist woods, thickets banks
<i>Arabis canadensis</i>	Sicklepod	G5	S1			Mesic woodlands
<i>Arnica cordifolia</i>	Heart-leaved Arnica	G5	S3			Open woodlands
<i>Asclepias lanuginosa</i>	Woolly Milkweed	G4?	S1			Sandy or rocky calcareous prairie
<i>Asclepias sullivantii</i>	Sullivant's Milkweed	G5	S2			Mesic tallgrass prairies
<i>Astragalus australis</i>	Indian Milkvetch	G5	S2S3		W	Open wooded hillsides, bluffs, limestone
<i>Astragalus drummondii</i>	Drummond's Milkvetch	G5	S1		W	Prairies to open wooded/brushy hillsides/ravines, all soil
<i>Astragalus neglectus</i>	Cooper's Milkvetch	G4	S1			Sandy, gravelly shores, mesic gravelly prairie
<i>Astragalus vexilliflexus</i>	Bent-flowered Milkvetch	G4	S3		W	Rocky knolls and open wooded hillsides
<i>Athyrium filix-femina</i>	Northern Lady-fern	G5	S3			Moist woods, thickets, bogs, along streams
<i>Botrychium campestre</i>	Prarie Grapefern	G3G4	S1			Dry, gravelly or sandy prairies
<i>Botrychium matricariifolium</i>	Chamomile Grapefern	G5	S1			Moist woodlands
<i>Botrychium minganense</i>	Moonwort	G4	S1			Wooded, often north-facing slopes, meadows
<i>Botrychium multifidum</i>	Leathery Grapefern	G5	S1			Wet meadows, rich woodlands
<i>Botrychium simplex</i>	Least Grapefern	G5	S2			Meadows, barrens, woods, subacid soils
<i>Bromus carinatus</i>	Mountain Brome	G5	S1		W	Disturbed, moist woods, dry meadows, sagebrush
<i>Bromus kalmii</i>	Kalm's Brome	G5	S3			Open oak woods, sandy soils
<i>Calla palustris</i>	Water Arum	G5	S2			Northern marshes and swamps

Belle Fourche Pipeline Company  
Plant Species of Concern  
10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>TABLE 4.D.1.A</b>						
<b>NORTH DAKOTA'S PLANT SPECIES OF CONCERN</b>						
<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Campanula aparinoidea</i>	Marsh Bellflower	G5	S2S3			Wetland thickets, seepage, peatlands
<i>Cardamine bulbosa</i>	Spring Cress	G5	S1			Wet meadows, wood springs
<i>Carex alopecoidea</i>	Foxtail Sedge	G5	S2			Damp, rich, wooded areas
<i>Carex athrostachya</i>	Jointed-spike Sedge	G5	S3			Low prairie, marsh margins
<i>Carex backii</i>	Back's Sedge	G4	S3			Damp, wooded areas
<i>Carex brunnescens</i>	Brown Sedge	G5	S1			Fens, wet wooded areas
<i>Carex buxbaumii</i>	Buxbaum's Sedge	G5	S2			Wet meadows, fens
<i>Carex capillaris</i>	Hair-like Sedge	G5	S2			Wet meadows, fens
<i>Carex chordorrhiza</i>	Creeping Sedge	G5	S1			Sphagnum bogs, poor fens
<i>Carex convoluta</i>	Spiral Sedge	G5	S2			Rich, deciduous woodlands
<i>Carex diandra</i>	Lesser-panicled Sedge	G5	S3			Swamps, meadows, shores
<i>Carex echinata ssp. echinata</i>	Spiny Sedge	G5T5	S1			Sphagnum bogs
<i>Carex festucea</i>	Fescue Sedge	G5	S2			Wooded areas
<i>Carex foenea (Carex siccata)</i>	Dry-spiked Sedge	G5	S3		W	Dry open soil in wooded areas
<i>Carex formosa</i>	Handsome Sedge	G4	S1			Low, moist, eastern woodlands
<i>Carex garberi</i>	Elk Sedge	G5	S1			Fens, swamps, pond margins
<i>Carex gracillima</i>	Graceful Sedge	G5	S1			Moist swampy woods
<i>Carex gynocrates</i>	Pistillate Sedge	G5	S1			Peaty fens
<i>Carex haydenii</i>	Hayden's Sedge	G5	S1			Wet meadows, sloughs
<i>Carex lasiocarpa</i>	Wiregrass Sedge	G5	S3			Sphagnum bogs, seepage-fed peatlands, lake borders
<i>Carex leptalea</i>	Delicate Sedge	G5	S3			Shrubby peatland fens, swampy woods and thickets
<i>Carex limosa</i>	Mud Sedge	G5	S2			Sphagnum bogs, fens
<i>Carex nebrascensis</i>	Nebraska Sedge	G5	S2			Wet meadows, stream margins
<i>Carex pedunculata</i>	Peduncled Sedge	G5	S2			Moist oak or birch woodlands
<i>Carex richardsonii</i>	Richardson's Sedge	G5	S1			Low, usually sandy, prairie

Belle Fourche Pipeline Company  
 Plant Species of Concern  
 10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>TABLE 4.D.1.A</b>						
<b>NORTH DAKOTA'S PLANT SPECIES OF CONCERN</b>						
<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Carex scirpoidea</i>	Spikerush Sedge	G5	S2		W	Rocky slopes, wet meadows
<i>Carex scoparia</i>	Pointed Broom Sedge	G5	SH			Damp woods, low prairie, lakeshores
<i>Carex simulata</i>	Copycat Sedge	G5	S2			Calcareous fens, wet meadows
<i>Carex sterilis</i>	Sterile Sedge	G4	S1			Seepage peatland fens, wet meadows
<i>Caulophyllum thalictroides</i>	Blue Cohosh	G4G5	S1			Moist rich woods
<i>Chaenactis douglasii</i>	Douglas' Dusty-maiden	G5	S2			Scoria slopes and buttes
<i>Cheilanthes feei</i>	Slender Lip fern	G5	S1			Dry rocky slopes, sandstone, limestone
<i>Chenopodium subglabrum</i>	Smooth Goosefoot	G3G4	S1		S	Sandy river terraces, sand colluviums, sand blowouts, sand dunes
<i>Clematis columbiana</i> var. <i>tenuiloba</i>	Slender-lobed Clematis	G5? T4?	S1		W	Rocky slopes, limestone soils
<i>Collinsia parviflora</i>	Blue lips	G5	S2		S	Mesic slopes of buttes
<i>Crataegus mollis</i>	Downy Hawthorn	G5	S1			Open mesic woods
<i>Cryptantha torreyana</i>	Torrey's Cryptantha	G5	S1		S	Dry plains, pine slopes, on scoria
<i>Cyperus bipartitus</i>	Brook Flatsedge	G5	S2			Cool, spring-fed streams
<i>Cyperus diandrus</i>	Low Flatsedge	G5	S2			Sandy or muddy shores, stream margins
<i>Cypripedium candidum</i>	White Lady's Slipper	G4	S2			Low prairie, wet meadows
<i>Cypripedium parviflorum</i>	Small Yellow Lady's-slipper orchid	G5	S2			Damp woods, fens, streambanks
<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Large Yellow Lady's-slipper	G5T5	S2			Boggy areas, wet prairies
<i>Cypripedium reginae</i>	Showy Lady's-slipper	G4	S2			Swampy woodlands, thickets, fens
<i>Dalea enneandra</i>	Nine-anthered Dalea	G5	S3			Sandy or gravelly slopes, dry mixed grass prairies
<i>Desmanthus illinoensis</i>	Prairie Mimosa	G5	S1			Prairies with rocky or sandy soils
<i>Dicentra cucullaria</i>	Dutchman's Breeches	G5	S1			Rich eastern woodlands

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<b>TABLE 4.D.1.A</b>						
<b>NORTH DAKOTA'S PLANT SPECIES OF CONCERN</b>						
<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Diervilla lonicera</i>	Dwarf Honeysuckle	G5	S3			Shady woodlands, usually aspen
<i>Dirca palustris</i>	Leatherwood	G4	S1			Shady, damp woodland slopes
<i>Drosera rotundifolia</i>	Round-leaved Sundew	G5	S1			Acid bogs, swamps
<i>Dryopteris carthusiana</i>	Spinulose Woodfern	G5	S3			Rich, moist woods, ravines, boggy areas, alder thickets
<i>Dryopteris cristata</i>	Crested Woodfern	G5	S3			Swampy woods and thickets, seeps
<i>Eleocharis parvula</i>	Dwarf Spikerush	G5	S2			Brackish, alkaline shores
<i>Eleocharis pauciflora</i>	Few-flowered Spikerush	G5	S3			Calcareous fens, seeps
<i>Eleocharis wolfii</i>	Wolf's Spikerush	G3?	SH			Shores, low, wet prairie
<i>Elymus glaucus</i>	Blue Wildrye	G5	S2			Open woods, prairie slopes
<i>Epilobium coloratum</i>	Purple-leaved Willowherb	G5	S3			Marshes, seeps, shores
<i>Epilobium pygmaeum</i> ( <i>Boisduvalia glabella</i> )	Smooth-spike Primrose	G5	S2		W	Small streams, vernal pools
<i>Equisetum palustre</i>	Marsh Horsetail	G5	S2			Willow/alder thickets, swampy woods, streambanks
<i>Equisetum pratense</i>	Meadow Horsetail	G5	S2			Moist woodlands, shady streambanks
<i>Equisetum sylvaticum</i>	Wood Horsetail	G5	S2			Moist aspen or lowland woods, seeps
<i>Equisetum variegatum</i>	Variiegated Horsetail	G5	S1			Marl pools of calcareous fens
<i>Erigeron divergens</i>	Spreading Fleabane	G5	S1		W	Dry, open, rocky, sandy, loose soils
<i>Erigeron radicans</i>	Cushion Fleabane	G3G4	S1		W	Exposed hills, slopes, ridges
<i>Eriogonum cernuum</i>	Nodding Buckwheat	G5	S1		S	Erosional breaks in sandy grasslands, sandstone colluvium
<i>Eriogonum visheri</i>	Dakota Buckwheat	G3	S2		S	Barren, erodible, rock outcrops in badland habitat
<i>Eriophorum chamissonis</i>	Chamisson's Cottongrass	G5	S2			Bogs, marshes, peaty fens
<i>Eriophorum gracile</i>	Slender Cottongrass	G5	S1			Seepage fens

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<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Eriophorum viridicarinatum</i>	Green Keeled Cottongrass	G5	S2			Sphagnum bogs, peaty fens
<i>Escobaria missouriensis</i>	Missouri Foxtail Cactus	G5	SNR		S	Plains, hills, desert edge, grasslands, lower mountains
<i>Euonymus atropurpureus</i>	Wahoo	G5	S3			Rich deciduous woods, woodland edges, river banks
<i>Euphorbia robusta</i>	Rocky Mountain Spurge	G5	S3			Dry, sandy or gravelly prairie slopes
<i>Fraxinus nigra</i>	Black Ash	G5	S2			Swampy or wet lowlands
<i>Fritillaria pudica</i>	Yellow Fritillary	G5	S3			Ephemerally moist areas of buttes
<i>Galium labradoricum</i>	Bog Bedstraw	G5	S3			Wetland thickets, fens, swampy woods
<i>Gentianopsis crinita</i>	Fringed Gentian	G5	S2			Low wet prairies, stream banks
<i>Geranium maculatum</i>	Wild Geranium	G5	SH			Rich, eastern deciduous woods
<i>Geum rivale</i>	Water Avens	G5	S2			Marshes, wet meadows, riverbanks
<i>Gymnocarpium dryopteris</i>	Oakfern	G5	S2			North-facing or shady wooded slopes
<i>Halenia deflexa</i>	Spurred Gentian	G5	S3			Wetland thickets, damp shady woods
<i>Helianthemum bicknellii</i>	Bicknell's Sunrose	G5	S1			Open woods, prairies, usually dry sandy soil
<i>Hudsonia tomentosa</i>	Woolly Beach-heather	G5	S1			Sand prairies, dunes
<i>Iris missouriensis</i>	Rocky Mountain Iris	G5	S2			Mesic areas within mixed grass prairie
<i>Juncus brevicaudatus</i>	Short-tailed Rush	G5	S2			Wet meadows, fens, marshes
<i>Juncus vaseyi</i>	Vasey's Rush	G5?	S2			Wet meadows, shores
<i>Lappula cenchrusoides</i>	Stickseed	G4	S1			Dry soils in open areas
<i>Lechea stricta</i>	Upright Pinweed	G4?	S2			Dry, sandy woods and prairies
<i>Leersia virginica</i>	Whitegrass	G5	S3			Moist woods, stream banks
<i>Leucocrinum montanum</i>	Sand Lily	G5	S2		S	Grass/sagebrush prairies, open conifer woodlands, sandy soils
<i>Linnaea borealis</i>	Twinflower	G5	S4			Moist, wooded, north-facing slopes
<i>Liparis loeselii</i>	Loesel's Twayblade	G5	S2			Damp woods, prairie swales, fens

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<b>NORTH DAKOTA'S PLANT SPECIES OF CONCERN</b>						
<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Lipocarpha micrantha</i>	Small-flowered Lipocarpha	G5	S1			Wet sandy areas, sandbars
<i>Mahonia repens</i>	Creeping Barberry	G5	S2			Coulees, slopes of high plains
<i>Mentzelia pumila</i>	Dwarf Mentzelia	G4	S1		S	Dry sandy or clayey soils
<i>Menyanthes trifoliata</i>	Buckbean	G5	S2			Sphagnum bogs, fen peat lands
<i>Mimulus guttatus</i>	Yellow Monkeyflower	G5	S1			Marshes, along streams and lake shores
<i>Minuartia dawsonensis</i>	Stiff Sandwort	G5	S1			Open rocky or gravelly areas on shale
<i>Mitella nuda</i>	Naked Mitrewort	G5	S3			Swampy lowland woods and thickets
<i>Monotropa uniflora</i>	Indianpipe	G5	S3			Rich shady woods
<i>Muhlenbergia filiformis</i>	Pull-up Muhly	G5	S1			Marl pools of calcareous fens
<i>Myosurus apetalus var. montanus</i>	Bristly Mousetail	G5T3 T5	S1		W	Moist areas, vernal pools, lowlands
<i>Myosurus aristatus</i>	Sedge Mousetail	G5	S2			Moist areas, vernal wetlands of mixed grass prairies
<i>Myriophyllum pinnatum</i>	Cutleaf Watermilfoil	G5	S2			Shallows of marshes and shores
<i>Najas guadalupensis</i>	Southern Naiad	G5	S1			Lakes or streams
<i>Najas marina</i>	Spiny Naiad	G5	S1			Alkaline lakes, ponds
<i>Oenothera laciniata</i>	Cutleaf Evening Primrose	G5	SA?		W	Sandy prairie, disturbed pastures, roadsides, stream valleys
<i>Oenothera rhombipetala</i>	Rhombic Evening Primrose	G4G5	S2			Sandy prairies
<i>Onoclea sensibilis</i>	Sensitive Fern	G5	S2			Wetland thickets, fen peat lands, damp, shady woodlands
<i>Ophioglossum pusillum</i>	Adder's-Tongue Fern	G5	S2			Low prairie swales
<i>Orobanche ludoviciana, ssp. multiflora</i>	Manyflowered Broomrape	G5	S1		W	Dry sandy soils, dunes, gypsum ridges
<i>Orobanche uniflora</i>	One-flowered Broomrape	G5	SH			Damp woods, thickets

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<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Oxytropis deflexa</i>	Drooping Locoweed	G5	S2			Sandy lake shores, low meadows, aspen woodland clearings
<i>Oxytropis sericea</i>	White Locoweed	G5	S1		W	Mixed grass prairie on slopes or buttes
<i>Parnassia palustris var. parviflora</i>	Small-flowered Grass-of-Parnassus	G4	S3			Calcareous fens, bogs
<i>Pellaea glabella</i>	Smooth Cliffbrake	G5	S3			Sandstone caprock of buttes and ledges
<i>Penstemon procerus</i>	Small-flowered Penstemon	G5	S1			Northern prairie slopes
<i>Petasites frigidus</i>	Sweet Coltsfoot	G5	S2			Damp meadows, woods
<i>Phlox alyssifolia</i>	Alyssum-leaved Phlox	G5	S2		S	Sandy/gravelly soil of open prairies, clay banks, limestone ridges
<i>Phlox pilosa</i>	Downy Phlox	G5	S1			Mesic prairies of open woodlands
<i>Pinus flexilis</i>	Limber Pine	G5	S1		S	Arid, exposed rocky ridges, foothills
<i>Piptatherum pungens</i>	Slender Mountain-Ricegrass	G5	S2			Xeric slopes, usually shale
<i>Platanthera clavellata</i>	Green Woodland Orchid	G5	SH			Swampy woods, bogs
<i>Platanthera praecleara</i>	Western Prairie Fringed Orchid	G3	S2	T		Moist prairie swales of sand hills
<i>Pogonia ophioglossoides</i>	Rose pogonia	G5	S1			Swampy woods, bogs
<i>Polygonum hydropiperoides</i>	Swamp Smartweed	G5	S1			Rooted in or near water
<i>Polygonum leptocarpum</i>	Thin-fruited Knotweed	G2G4Q	S1			Damp, dry soils on clay
<i>Polygonum punctatum</i>	Dotted Smartweed	G5	S3			Swampy thickets, wet meadows, riverbanks
<i>Polygonum sagittatum</i>	Arrow-leaved Tearthumb	G5	S2			Marshes, wet meadows
<i>Populus x acuminata</i>	Lanceleaf Cottonwood	GNA	S2		S	Floodplains, stream banks
<i>Populus x jackii</i>	Balm-of-Gilead	GNA	SNR		W	Uplands and bottomlands
<i>Potamogeton diversifolius</i>	Water-thread Pondweed	G5	S3		W	Shallow ponds, marshes
<i>Potamogeton filiformis</i>	Slender Pondweed	G5	S3			Shallow lakes, ponds, streams

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<b>TABLE 4.D.1.A</b>						
<b>NORTH DAKOTA'S PLANT SPECIES OF CONCERN</b>						
<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Potamogeton natans</i>	Floating Pondweed	G5	S2			Cold, shallow to deep lakes and streams
<i>Potamogeton praelongus</i>	White-stemmed Pondweed	G5	S1			Usually cool, deep water of lakes
<i>Potamogeton strictifolius</i>	Narrow-leaved Pondweed	G5	S1			Shallow lakes, streams
<i>Potamogeton vaginatus</i> ( <i>Stuckenia vaginata</i> )	Sheathed Pondweed	G5	S3			Usually deep cold lakes, ponds
<i>Potentilla diversifolia</i>	Mountain meadow cinquefoil (Varileaf Potentilla)	G5	S1		W	Drainages, meadows
<i>Potentilla palustris</i>	Purple Cinquefoil	G5	S2			Fens, wet meadows, bogs
<i>Potentilla tridentata</i> ( <i>Sibbaldiopsis tridentata</i> )	Three-toothed Cinquefoil (Shrubby Fivefingers)	G5	S1		W	Gravel shores, dry shale outcrops of prairie hillsides, scoria
<i>Primula incana</i>	American Primrose	G4G5	S2			Alkali wet meadows, fens
<i>Psoralea tenuiflora</i>	Slim-flowered Scurfpea	G5	SH			Dry prairie, high plains
<i>Ranunculus cardiophyllus</i>	Heart-leaved Buttercup	G4G5	S1		W	Mountain meadows along streams, seeps
<i>Ranunculus flammula</i>	Acrid Spearwort	G5	S1			Marshes, damp shores
<i>Ranunculus recurvatus</i>	Hooked crowfoot	G5	S1			Wooded ravines, swampy woods
<i>Rhynchospora capillacea</i>	Hair Beakrush	G4	S2			Moist calcareous fens, marsh meadows, seeps, limestone
<i>Ribes cynosbati</i>	Prickly Gooseberry	G5	S3			Moist rich woods
<i>Rorippa calycina</i>	Hayden's Yellowcress	G3	SH		W	Sandy shores of rivers and streams
<i>Salix maccalliana</i>	Swamp Willow	G5?	S1			Bogs, swamps
<i>Salix pedicellaris</i>	Bog Willow	G5	S3			Sphagnum bogs, fens
<i>Sanicula gregaria</i>	Cluster Sanicle	G4Q	SH			Rich, moist woodlands
<i>Scheuchzeria palustris</i>	Scheuchzeria	G5	S1			Sphagnum bogs,
<i>Scirpus cyperinus</i>	Cottongrass Bulrush	GNR	SNR			Wet meadows, fresh marshes, boggy areas, fen wetlands

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<b>TABLE 4.D.1.A</b>						
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<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Selaginella rupestris</i>	Ledge Spike-moss	G5	S1			Sandy soils near oak woodlands
<i>Senecio eremophilus</i>	Northern Ragwort	G5	S2			Open sites in aspen woodlands
<i>Smilax ecirrhata</i>	Upright Greenbrier (Upright Carrionflower)	G5?	S2		W	Rich deciduous woods and thickets
<i>Solidago flexicaulis</i>	Zigzag Goldenrod	G5	S2			Rich deciduous woodlands
<i>Solidago riddellii</i>	Riddell's Goldenrod	G5	SH			Low prairies, wet meadows
<i>Sphagnum recurvum</i>	Recurved Sphagnum	G5	S1			Bogs, fens, forests, near wetlands
<i>Sphagnum teres</i>	Round-leaved Sphagnum	G5	S1			Bogs, fens, forests, near wetlands
<i>Spiranthes cernua</i>	Nodding Ladies' Tresses	G5	S1			Fens, low prairies
<i>Spiranthes romanzoffiana</i>	Hooded Ladies' Tresses	G5	S1			Fens, wet meadows
<i>Sporobolus airoides</i>	Alkali Sacaton	G5	S3		S	Sandy/gravelly soil, clay outwash, saline conditions
<i>Stephanomeria minor (tenuifolia)</i>	Narrow-leaved Wirelettuce	G5	S3			Dry, clay outcrops
<i>Talinum parviflorum (Phemeranthus parviflorus)</i>	Prairie Fameflower	G5	S2		W	Sandy acidic soil, overlying bedrock
<i>Thelesperma subnudum var. marginatum</i>	Greenthread	G5T5	S2			Sandy prairie, open plains
<i>Thelypteris palustris</i>	Marsh Fern	G5	S3			Wetland thickets, shrubby fens
<i>Townsendia exscapa</i>	Easter Daisy	G5	SNR		S	Dry barren plain, hillsides on gravelly exposures, weathered bedrock
<i>Townsendia hookeri</i>	Hooker's Townsendia	G5	S1		S	Butte summits
<i>Triantha glutinosa</i>	Sticky False-asphodel	G5	S1			Fens, wet meadows
<i>Triplasis purpurea</i>	Purple Sandgrass	G4G5	S1			Sandy prairies, blowouts
<i>Utricularia intermedia</i>	Flat-leaved Bladderwort	G5	S2			Calcareous fens, seepage peatlands

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<u>Scientific Name</u>	<u>Common Name</u>	<u>Global</u>	<u>State</u>	<u>USFWS</u>	<u>USFS</u>	<u>Habitat</u>
<i>Utricularia minor</i>	Lesser Bladderwort	G5	S2			Calcareous fens, seeps
<i>Uvularia sessilifolia</i>	Sessile-leaved Bellwort	G5	S2			Rich deciduous woods
<i>Veronicastrum virginicum</i>	Culver’s Root	G4	SH			Low prairie, rich woods
<i>Viola conspersa</i> ( <i>Viola labradorica</i> )	Bog Violet	G5	S2			Moist woods, streambanks
<i>Viola incognita</i> ( <i>Viola blanda</i> )	Large-leaved White Violet	G4G5T 4T5	SH			Moist woods
<i>Wolffia columbiana</i>	Southern Watermeal	G5	S2			Aquatic in quiet waters
* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.						

<b>TABLE 4.D.1.B</b>	
<b>USDA FOREST SERVICE SENSITIVE PLANTS LITTLE MISSOURI NATIONAL GRASSLAND</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Smooth Goosefoot	<i>Chenopodium subglabrum</i>
Blue Lips	<i>Collinsia parviflora</i>
Torrey’s Cryptantha	<i>Cryptantha torreyana</i>
Nodding Buckwheat	<i>Eriogonum cernuum</i>
Dakota Buckwheat	<i>Eriogonum visheri</i>
Missouri Foxtail Cactus	<i>Escobaria missouriensis</i>
Sand Lily	<i>Leucocrinum montanum</i>
dwarf mentzelia	<i>Mentzelia pumila</i>
alyssumleaf phlox	<i>Phlox alyssifolia</i>
limber pine	<i>Pinus flexilis</i>
lanceleaf cottonwood	<i>Populus x acuminata</i>
alkali sacaton	<i>Sporobolus airoides</i>
Easter Daisy	<i>Townsendia exscapa</i>
Hooker’s Townsend daisy	<i>Townsendia hookeri</i>

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<b>TABLE 4.D.1.C</b>	
<b>BLM SENSITIVE SPECIES – PLANTS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Cusick's horse-mint	<i>Agastache cusickii</i>
Western boneset	<i>Ageratina occidentalis =Eupatorium occidentale</i>
Tapertip onion	<i>Allium acuminatum</i>
Sitka columbine	<i>Aquilegia formosa</i>
Daggett rock cress	<i>Arabis demissa var. languida</i>
sapphire rockcress	<i>Arabis fecunda</i>
narrowleaf milkweed	<i>Asclepias stenophylla</i>
Sweetwater milkvetch	<i>Astragalus aretioides =Orophaca aretioides</i>
Barr's milkvetch	<i>Astragalus barrii</i>
painted milkvetch	<i>Astragalus ceramicus var. apus</i>
lesser rushy milkvetch	<i>Astragalus convallarius var.convallarius = A. junciformis</i>
Geyer's milkvetch	<i>Astragalus geyeri</i>
Gray's milkvetch	<i>Astragalus grayi</i>
Wind River milkvetch	<i>Astragalus oreganus</i>
Bitterroot milkvetch	<i>Astragalus scaphoides</i>
railhead milkvetch	<i>Astragalus terminalis</i>
large-leafed balsamroot	<i>Balsamorhiza macrophylla</i>
Peculiar moonwort	<i>Botrychium paradoxum</i>
low northern-rockcress	<i>Braya humilis</i>
Mohave brickellbush	<i>Brickellia oblongifolia</i>
Idaho sedge	<i>C. idahoa = C. parryana ssp.idahoa</i>
Small-winged sedge	<i>Carex stenoptila</i>
obscure evening-primrose	<i>Camissonia andina= Oenotheraandina</i>
small camissonia	<i>Camissonia parvula = Oenotheraparvula</i>
Crawe's sedge	<i>Carex crawei</i>

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<b>TABLE 4.D.1.C</b>	
<b>BLM SENSITIVE SPECIES – PLANTS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
annual Indian paintbrush	<i>Castilleja exilis</i>
yellow bee plant	<i>Cleome lutea</i>
Fendler cat's-eye	<i>Cryptantha fendleri</i>
miner's candle	<i>Cryptantha scoparia</i>
Schweinitz' flatsedge	<i>Cyperus schweinitzii</i>
Scribner's panic grass	<i>Dichanthelium oligosanthes</i> <i>var.scribnerianum</i>
beavertip draba	<i>Draba globosa</i> = <i>D. apiculata</i>
Wind River draba	<i>Draba ventosa</i>
long sheath waterweed	<i>Elodea bifoliata</i> = <i>E.longivaginata</i>
beaked spikerush	<i>Eleocharis rostellata</i>
Idaho fleabane	<i>Erigeron asperugineus</i>
linearleaf fleabane	<i>Erigeron linearis</i>
buff fleabane	<i>Erigeron ochroleucus</i> var.
matted buckwheat	<i>Eriogonum caespitosum</i>
Railroad Canyon wild buckwheat	<i>Eriogonum soliceps</i>
Visher's buckwheat	<i>Eriogonum visheri</i>
hiker's gentian	<i>Gentianopsis simplex</i>
spiny hopsage	<i>Grayia spinosa</i>
Howell's gumweed	<i>Grindelia howellii</i>
showy goldeneye	<i>Heliomeris multiflora</i> var. <i>multiflora</i> = <i>Viguiera multiflora</i>
prostrate hutchensia	<i>Hutchinsia procumbens</i>
ballhead ipomopsis	<i>Ipomopsis congesta</i> ssp. <i>crebrifolia</i>
simple bog sedge	<i>Kobresia simpliciuscula</i>
green molly	<i>Kochia americana</i>
mat prickly phlox	<i>Leptodactylon caespitosum</i>

Belle Fourche Pipeline Company  
 Plant Species of Concern  
 10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>TABLE 4.D.1.C</b>	
<b>BLM SENSITIVE SPECIES – PLANTS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Idaho bladderpod (same as keeled)	<i>Lesquerella carinata</i> var. <i>languida</i>
Pryor Mountain bladderpod	<i>Lesquerella lesicii</i>
beautiful bladderpod	<i>Lesquerella pulchella</i>
sand wildrye	<i>Leymus flavescens</i> = <i>Elymus flavescens</i>
Pale-spiked lobelia	<i>Lobelia spicata</i>
taper-tip desert-parsley	<i>Lomatium attenuatum</i>
Nuttall desert-parsley	<i>Lomatium nuttallii</i>
marsh felwort	<i>Lomatogonium rotatum</i>
Torrey's desert dandelion	<i>Malacothrix torreyi</i> = <i>M. sonchoides</i> v. <i>torreyi</i>
bractless mentzelia	<i>Mentzelia nuda</i>
dwarf mentzelia	<i>Mentzelia pumila</i>
dwarf purple monkeyflower	<i>Mimulus nanus</i>
primrose monkeyflower	<i>Mimulus primuloides</i>
square-stem monkeyflower	<i>Mimulus ringens</i>
leafy nama	<i>Nama densum</i>
Blue toadflax	<i>Nuttallanthus texanus</i>
meadow lousewort	<i>Pedicularis crenulata</i>
narrowleaf penstemon	<i>Penstemon angustifolius</i>
Lemhi beardtongue	<i>Penstemon lemhiensis</i>
Whipple's beardtongue	<i>Penstemon whippleanus</i>
hoary phacelia	<i>Phacelia incana</i>
Hot Spring phacelia	<i>Phacelia thermalis</i>
plains phlox	<i>Phlox andicola</i>
Missoula phlox	<i>Phlox missoulensis</i>
double bladderpod	<i>Physaria brassicoides</i>

Belle Fourche Pipeline Company  
 Plant Species of Concern  
 10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>TABLE 4.D.1.C</b>	
<b>BLM SENSITIVE SPECIES – PLANTS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
common twinpod	<i>Physaria didymocarpa v. lanata</i>
slender-branched popcorn flower	<i>Plagiobothrys leptocladus</i>
short-leavedbluegrass	<i>Poa arnowiae = P. curta</i>
Austin's knotweed	<i>Polygonum douglasii sp.Austinae</i>
Platte cinquefoil	<i>Potentilla plattensis</i>
alkali primrose	<i>Primula alcalina</i>
mealy primrose	<i>Primula incana</i>
James stitchwort	<i>Pseudostellaria jamesiana =Stellaria jamesiana</i>
dwarf wooly-heads	<i>Psilocarphus brevissimus</i>
Indian breadroot	<i>Pediomelum hypogaeum</i>
Lemmon's alkaligrass	<i>Puccinellia lemmonii</i>
white-veined wintergreen	<i>Pyrola picta</i>
Beartooth large-flowered goldenweed	<i>Pyrrcoma carthamoides var.subsquarrosa = Haplopappuscarthamoides v. subsquarrosus</i>
bur oak	<i>Quercus macrocarpa</i>
Northern buttercup	<i>Ranunculus pedatifidus</i>
persistent-sepal yellow-cress	<i>Rorippa calycina</i>
slender bulrush	<i>Schoenoplectus heterochaetus =Scirpus heterochaetus</i>
shoshonea	<i>Shoshonea pulvinata</i>
few-flowered goldenrod	<i>Solidago velutina = S. sparsifolia</i>
white-stemmed globe-mallow	<i>Sphaeralcea munroana</i>
silver chicken sage	<i>Sphaeromeria argentea</i>
smooth buckwheat	<i>Stenogonum salsuginosum =Eriogonum salsuginosum</i>
thorn skeletonweed	<i>Stephanomeria spinosa =Lygodesmia spinosa</i>

Belle Fourche Pipeline Company  
Plant Species of Concern  
10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>TABLE 4.D.1.C</b>	
<b>BLM SENSITIVE SPECIES – PLANTS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Poison suckleya	<i>Suckleya suckleyana</i>
Rocky Mountain dandelion	<i>Taraxacum eriophorum</i>
alpinemeadowrue	<i>Thalictrum alpinum</i>
arrow thelypody	<i>Thelypodium sagittatum ssp.sagittatum</i>
meadow pennycress	<i>Thlaspi parviflorum</i>
showy townsendia	<i>Townsendia florifera</i>
Nannyberry	<i>Viburnum lentago</i>

**APPENDIX 4.D**

**North Dakota Federal and State Wildlife Species of Concern**

Belle Fourche Pipeline Company  
Wildlife Species of Concern  
10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>TABLE 4.D.2.A</b>							
<b>NORTH DAKOTA’S BIRD SPECIES OF CONCERN</b>							
<b>Scientific Name</b>	<b>Common Name</b>	<b>Global</b>	<b>State</b>	<b>USFWS</b>	<b>USFS</b>	<b>CWCS</b>	<b>Habitat</b>
<i>Ammodramus bairdii</i>	Baird’s Sparrow	G4	SU		S	I	Native prairies & grasslands
<i>Ammodramus leconteii</i>	Le Conte’s Sparrow	G4	SU			II	Fens, wet meadows, marshes, sedges
<i>Ammodramus nelsoni</i>	Nelson’s Sharp-tailed Sparrow	G5	SU			I	Fens, shallow marshes, lakes
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	G5	S?B			I	Mixed-grass prairie, meadows, hayfields
<i>Anas acuta</i>	Northern Pintail	G5	S?B			II	Aquatic/wetland habitat
<i>Anthus spragueii</i>	Sprague’s Pipit	G4	S3		S	I	Grazed prairie
<i>Asio flammeus</i>	Short-eared Owl	G5	S?B, S?N			II	Prairie, hayfields, stubble fields
<i>Athene cunicularia</i>	Burrowing Owl	G4	SU		S	II	Grasslands with abandoned burrows
<i>Aythya americana</i>	Redhead	G5	S?B			II	Aquatic/wetland habitat
<i>Aythya valisineria</i>	Canvasback	G5	S?B			II	Aquatic/wetland habitat
<i>Bartramia longicauda</i>	Upland Sandpiper	G5	S?B			I	Dry, open mixed-grass prairie
<i>Botaurus lentiginosus</i>	American Bittern	G4	S?B			I	Aquatic/wetland habitat
<i>Buteo regalis</i>	Ferruginous Hawk	G4	SU			I	Native prairie, trees, cliffs
<i>Buteo swainsoni</i>	Swainson’s Hawk	G5	SU			I	Open plains and prairies
<i>Calamospiza melanocorys</i>	Lark Bunting	G5	S?B			I	Sagebrush, sage prairie
<i>Calcarius mccownii</i>	McCown’s Longspur	G4	S2			III	Arid, grazed, mix-grass prairie,
<i>Calcarius ornatus</i>	Chestnut-collared Longspur	G5	S?B			I	Grazed/hayed mixed-grass prairie
<i>Catoptrophorus semipalmatus</i>	Willet	G5	SU			I	Aquatic/wetland habitat
<i>Centrocercus urophasianus</i>	Greater Sage Grouse	G4	SU		S	II	Sagebrush
<i>Charadrius montanus</i>	Mountain Plover	G2	SX	PT			Dry short grass prairie, sagebrush
<i>Chlidonias niger</i>	Black Tern	G4	S?B			I	Aquatic/wetland habitat

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Wildlife Species of Concern  
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<b>TABLE 4.D.2.A</b>							
<b>NORTH DAKOTA'S BIRD SPECIES OF CONCERN</b>							
<b>Scientific Name</b>	<b>Common Name</b>	<b>Global</b>	<b>State</b>	<b>USFWS</b>	<b>USFS</b>	<b>CWCS</b>	<b>Habitat</b>
<i>Circus cyaneus</i>	Northern Harrier	G5	S?B, S?N			II	Upland grasses near water
<i>Cistothorus platensis</i>	Sedge Wren	G5	S?B			II	Wet meadows, tall grasses & sedges
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	G5	S?B			I	Woodlands, thickets, prairie shrub, shelterbelt
<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S2			I	Aquatic/wetland habitats
<i>Dolichonyx oryzivorus</i>	Bobolink	G5	S?B			II	Tall-grass prairie, hayland, cropland
<i>Falco mexicanus</i>	Prairie Falcon	G5	S3			II	Badlands, cliffs, buttes in west ND
<i>Falco peregrinus</i>	Peregrine Falcon	G4T4	S1		S	III	Undisturbed areas with cliffs and prey
<i>Grus americana</i>	Whooping Crane	G1	SX	E, XN		III	Aquatic/wetland habitats
<i>Haliaeetus leucocephalus</i>	Bald Eagle	G5	S1			II	Forested areas near water
<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	SU		S	II	Open country, wooded coulees, shelterbelts
<i>Larus pipixcan</i>	Franklin's Gull	G4G5	S?B			I	Aquatic/wetland habitats
<i>Limosa fedoa</i>	Marbled Godwit	G5	SU			I	Aquatic/wetland habitat
<i>Melanerpes erythrocephalus</i>	Red-Headed Woodpecker	G5	S?B			II	Trees by rivers, shelterbelts, wooded areas
<i>Numenius americanus</i>	Long-billed Curlew	G5	S2		S	I	Aquatic/wetland habitats, extreme SW counties
<i>Numenius borealis</i>	Eskimo Curlew	GH	S?	E			Wetlands, grasslands, pastures
<i>Pelecanus erythrorhynchos</i>	American White Pelican	G4	S?B			I	Aquatic/wetland habitat
<i>Phalaropus tricolor</i>	Wilson's Phalarope	G5	S?B			I	Aquatic/wetland habitat
<i>Podiceps auritus</i>	Horned Grebe	G5	S?B			I	Aquatic/wetland habitat
<i>Recurvirostra americana</i>	American Avocet	G5	S?B			II	Aquatic/wetland habitat
<i>Spiza americana</i>	Dickcissel	G5	S?B			II	Alfalfa, sweet clover, brushy grasslands

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<b>TABLE 4.D.2.A</b>							
<b>NORTH DAKOTA'S BIRD SPECIES OF CONCERN</b>							
<b>Scientific Name</b>	<b>Common Name</b>	<b>Global</b>	<b>State</b>	<b>USFWS</b>	<b>USFS</b>	<b>CWCS</b>	<b>Habitat</b>
<i>Spizella breweri</i>	Brewer's Sparrow	G5	S3			III	Dense sagebrush, short-grass prairie
<i>Sterna antillarum</i>	Interior Least Tern	G4	S1	E		II	Sparsely vegetated sand bars
<i>Tympanuchus cupido pinnatus</i>	Greater Prairie Chicken	G4T4	S2		S	II	Native tall-grass prairie
<i>Tympanuchus phasianellus</i>	Sharp-tailed Grouse	G4	S?			II	Mixed-grass prairie, patches of woody vegetation
<i>Zonotrichia albicollis</i>	White-throated Sparrow	G5	S3				Mature quaking aspen, dense understory
* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.							

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<b>TABLE 4.D.2.B</b>							
<b>NORTH DAKOTA'S MAMMAL SPECIES OF CONCERN</b>							
<b>Scientific Name</b>	<b>Common Name</b>	<b>Global</b>	<b>State</b>	<b>USFWS</b>	<b>USFS</b>	<b>CWCS</b>	<b>Habitat</b>
<i>Canis lupus</i>	Gray Wolf	G4	SX	E		III	Forested areas
<i>Chaetodipus hispidus</i>	Hispid Pocket Mouse	G5	S4			III	Short and mixed-grass prairie
<i>Cynomys ludovicianus</i>	Black-tailed Prairie Dog	G3G4	SU		S	I	Short grass of grazed rangeland in SW North Dakota
<i>Lemmyscus curtatus</i>	Sagebrush Vole	G5	S4			III	Extreme western North Dakota
<i>Lutra canadensis</i>	Northern River Otter	G5	S1			II	Rivers, streams near wooded areas
<i>Mustela nigripes</i>	Black-footed Ferret	G1	S1	E		II	Short grass prairie where prairie dog towns occur.
<i>Myotis ciliolabrum</i>	Western Small-footed Myotis	G5	SU			III	Extreme western North Dakota
<i>Myotis evotis</i>	Long-eared Myotis	G5	SU			III	Western North Dakota
<i>Myotis volans</i>	Long-legged Myotis	G5	SU			III	Western North Dakota
<i>Ovis canadensis</i>	Bighorn Sheep	G4T4	S2		S		Rugged terrain, rocky slopes, badlands
<i>Perognathus flavescens</i>	Plains Pocket Mouse	G5	SU			III	Sandy areas covered with grass in SE North Dakota
<i>Sorex arcticus</i>	Arctic Shrew	G5	S?			III	Moist, grassy openings in forested areas
<i>Sorex hoyi</i>	Pygmy Shrew	G5	SU			II	Forested areas in drift prairie & Red River Valley
<i>Spermophilus richardsonii</i>	Richardson's Ground Squirrel	G5	S?			II	Open grasslands, cultivated fields, pastures
<i>Spilogale putoris</i>	Eastern Spotted Skunk	G5	S1			III	Riparian woodlands, densely vegetated
<i>Vulpes velox</i>	Swift Fox	G3	S1			II	Short mixed-grass prairie tracts
* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.							

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Wildlife Species of Concern  
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<b>TABLE 4.D.2.C</b>							
<b>NORTH DAKOTA'S REPTILE SPECIES OF CONCERN</b>							
Scientific Name	Common Name	Global	State	USFWS	USFS	CWCS	Habitat
<i>Apalone mutica</i>	Smooth Softshell Turtle	G5	SU			III	Lower Missouri River System
<i>Chelydra serpentina</i>	Common Snapping Turtle	G5	S?			II	Warm water lakes/streams, muddy bottoms
<i>Eumeces septentrionalis</i>	Northern Prairie Skink	G5	S2S3			III	Sandy areas in grasslands
<i>Graptemys pseudogeographica</i>	False Map Turtle	G5	SU			III	Lower Missouri River System
<i>Heterodon nasicus</i>	Western Hognose Snake	G5	S?			I	Sand/gravel habitats near rivers
<i>Liochlorophis vernalis</i>	Smooth Green Snake	G5	S?			I	Grasslands, uplands of hills
<i>Phrynosoma hernandesi</i>	Short-Horned Lizard	G5	S?			II	Badlands
<i>Sceloporus graciosus</i>	Northern Sagebrush Lizard	G5	S4			III	Sagebrush, open flats, forested slopes near water
<i>Storeria occipitomaculata</i>	Redbelly Snake	G5	S?			II	Woodlands in drift prairie, Red River Valley
* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.							

<b>TABLE 4.D.2.D</b>							
<b>NORTH DAKOTA'S AMPHIBIAN SPECIES OF CONCERN</b>							
Scientific Name	Common Name	Global	State	USFWS	USFS	CWCS	Habitat
<i>Bufo hemiophrys</i>	Canadian Toad	G4	S?			I	Aquatic/wetland habitat
<i>Rana pipiens</i>	Northern Leopard Frog	G5	S?				Aquatic/wetland habitat
<i>Spea bombifrons</i>	Plains Spadefoot Toad	G5	S?			I	Dry grasslands, loose soils, shallow pools
* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.							

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<b>TABLE 4.D.2.E</b>							
<b>NORTH DAKOTA'S FISH SPECIES OF CONCERN</b>							
<b>Scientific Name</b>	<b>Common Name</b>	<b>Global</b>	<b>State</b>	<b>USFWS</b>	<b>USFS</b>	<b>CWCS</b>	<b>Habitat</b>
<i>Ameiurus natalis</i>	Yellow Bullhead	G5	SX			III	Backwater, slow-moving sections of rivers, soft bottoms
<i>Campostoma anomalum</i>	Central Stoneroller	G5	S3			III	Forest River in NE North Dakota
<i>Cycleptus elongatus</i>	Blue Sucker	G3G4	S3			I	Large rivers, strong current, high turbidity
<i>Ichthyomyzon castaneus</i>	Chestnut Lamprey	G4	S?			III	Red River
<i>Ichthyomyzon unicuspis</i>	Silver Lamprey	G5	S?			III	Red River
<i>Macrhybopsis gelida</i>	Sturgeon Chub	G3	S2		S2	I	Rocky rapids, high turbidity, swift currents
<i>Macrhybopsis meeki</i>	Sicklefin Chub	G3	S2			I	Deep rivers, swift current, muddy waters
<i>Macrhybopsis storeriana</i>	Silver Chub	G5	S?			II	Deeper pools, sandy backwater, large rivers
<i>Margariscus margarita</i>	Pearl Dace	G5	S3			I	Missouri & Red River systems
<i>Nocomis biguttatus</i>	Hornyhead Chub	G5	S3			III	Forest River in NE North Dakota
<i>Notropis anogenus</i>	Pugnose Shiner	G3	S1			III	Clear water with vegetation
<i>Notropis heterolepis</i>	Blacknose Shiner	G4	S3			III	Pools with vegetation
<i>Notropis rubellus</i>	Rosyface Shiner	G5	S3			III	Pools with current
<i>Percina caprodes</i>	Logperch	G5	S3			III	Red River
<i>Percina shumardi</i>	River Darter	G5	SU			III	Red River
<i>Percopsis omiscomaycus</i>	Trout-Perch	G5	S?			II	Deep pools, rivers, streams, sandy bottoms
<i>Phoxinus eos</i>	Northern Redbelly Dace	G5	S4		S2	II	Slower rivers with some vegetation
<i>Phoxinus neogaeus</i>	Finescale Dace	G5	SU			III	Pools, slow moving waters
<i>Platygobio gracilis</i>	Flathead Chub	G5	S?			II	Turbid waters, swift current, sand/gravel bottoms
<i>Polyodon spathula</i>	Paddlefish	G4	S?			II	Large free flowing rivers with zooplankton
<i>Pylodictis olivaris</i>	Flathead Catfish	G5	S4			III	Pools, lakes, slower waters,
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	G2	S1	E		II	Large, turbid rivers with sand/gravel bottom

\* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.

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<b>TABLE 4.D.2.F</b>							
<b>NORTH DAKOTA'S INSECT SPECIES OF CONCERN</b>							
<b>Scientific Name</b>	<b>Common Name</b>	<b>Global</b>	<b>State</b>	<b>USFWS</b>	<b>USFS</b>	<b>CWCS</b>	<b>Habitat</b>
<i>Atrytone arogos iowa</i>	Arogos Skipper	G3G4T3T4	S?		S		Native prairie with purple vetch, Canada thistle, purple coneflower
<i>Euphyes dion</i>	Dion Skipper	G4	S1		S		Sedge marshes, cattails, swamp milkweed
<i>Hesperia dacotae</i>	Dakota Skipper	G2	S2	C	S		Native tall grass prairie with white camass
<i>Hesperia ottoe</i>	Ottoe Skipper	G3G4	S?		S		Native prairie hilltops with coneflower
<i>Oarisma powesheik</i>	Powersheik Skipper	G2G3	S?		S		Undisturbed, tall grass meadows
<i>Phyciodes batesii</i>	Tawny Crescent	G4	S3		S		Woodlands, native prairie with dogbane, leafy spurge
<i>Poanes massasoit</i>	Mulberry Wing	G4	S2		S		Sedge meadows with upright sedge, dogwood
<i>Poanes viator</i>	Broad-Winged Skipper	G5	S2		S		Tall marsh grass with hairy sedge, swamp milkweed
<i>Speyeria idalia</i>	Regal Fritillary	G3	S2		S		Tall grass areas, damp meadows with blazing star, milkweed, thistle
* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.							

<b>TABLE 4.D.2.G</b>							
<b>NORTH DAKOTA'S BIVALVE AND GASTROPOD SPECIES OF CONCERN</b>							
<b>Common Name</b>	<b>Scientific Name</b>	<b>Global</b>	<b>State</b>	<b>USFWS</b>	<b>USFS</b>	<b>CWCS</b>	<b>Habitat</b>
<i>Amblema plicata</i>	Threeridge	G5	S?			II	Mud, sand, gravel bottoms
<i>Fusconaia flava</i>	Wabash Pigtoe	G5	S4			II	Mud, sand, gravel bottoms
<i>Lasmigona compressa</i>	Creek Heelsplitter	G5	S?			II	Sandy-bottomed headwaters
<i>Ligumia recta</i>	Black Sandshell	G5	S4			II	Swift current, gravel/sand bottoms
<i>Potamilus alatus</i>	Pink Heelsplitter	G5	S4			II	Mud, gravel bottoms
<i>Potamilus ohioensis</i>	Pink Papershell	G5	SU			III	Sandy bottom of Bois de Sioux River
<i>Quadrula quadrula</i>	Mapleleaf	G5	S3			II	Mud, sand, gravel bottoms
* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.							

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<b>TABLE 4.D.2.H</b>	
<b>BLM SENSITIVE SPECIES – MAMMALS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Black-tailed prairie dog	<i>Cynomys ludovicianus</i>
Fisher	<i>Martes pennanti</i>
Fringed myotis	<i>Myotis thysanodes</i>
Fringe-tailed myotis	<i>Myotis thysanodes pahasapensis</i>
Gray Wolf	<i>Canis lupus</i>
Great Basin pocket mouse	<i>Perognathus parvus</i>
Grizzly Bear	<i>Ursus arctos horribilis</i>
Long-eared myotis	<i>Myotis evotis</i>
Long-legged myotis	<i>Myotis volans</i>
Meadow jumping mouse	<i>Zapus hudsonius</i>
North American wolverine	<i>Gulo gulo luscus</i>
Northern myotis	<i>Myotis septentrionalis</i>
Pallid bat	<i>Antrozous pallidus</i>
Pygmy rabbit	<i>Brachylagus idahoensis</i>
Swift fox	<i>Vulpes velox</i>
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>
White-tailed prairie dog	<i>Cynomys leucurus</i>

Belle Fourche Pipeline Company  
 Wildlife Species of Concern  
 10-inch Crude Oil Loop Pipeline – Billings, Dunn, and Stark Counties

<b>TABLE 4.D.2.I</b>	
<b>BLM SENSITIVE SPECIES – BIRDS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Baird's sparrow	<i>Ammodramus bairdii</i>
Bald Eagle	<i>Haliaeetus leucocephalus</i>
Black tern	<i>Chilodoniast niger</i>
Black-backed woodpecker	<i>Picoides arcticus</i>
Black-crowned night heron	<i>Nycticorax nycticorax</i>
Blue-gray gnatcatcher	<i>Poliopitila caerulea</i>
Bobolink	<i>Dolichonyx orysivorus</i>
Brewer's sparrow	<i>Spizella breweri</i>
Burrowing owl	<i>Athene cunicularia</i>
Chestnut-collared longspur	<i>Calcarius ornatus</i>
Common loon	<i>Gavia immer</i>
Dickcissel	<i>Spiza americana</i>
Ferruginous hawk	<i>Buteo regalis</i>
Flammulated owl	<i>Otus flammeolus</i>
Franklin's gull	<i>Larus pipixcan</i>
Golden eagle	<i>Aquila chrysaetos</i>
Great gray owl	<i>Strix nebulosa</i>
Greater sage-grouse	<i>Centrocercus urophasianus</i>
Harlequin duck	<i>Histrionicus histrionicus</i>
LeConte's sparrow	<i>Ammodramus leconteii</i>
Loggerhead shrike	<i>Lanius ludovicianus</i>
Long-billed curlew	<i>Numenius americanus</i>
Marbled godwit	<i>Limosa fedoa</i>
McCown's longspur	<i>Calcarius mccownii</i>
Mountain plover	<i>Charadrius montanus</i>

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<b>TABLE 4.D.2.I</b>	
<b>BLM SENSITIVE SPECIES – BIRDS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Nelson's sharp-tailed sparrow	<i>Ammodramus nelsoni</i>
Northern goshawk	<i>Accipiter gentiles</i>
Peregrine falcon	<i>Falco peregrinus</i>
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>
Sage sparrow	<i>Amphispiza belli</i>
Sage thrasher	<i>Oreoscoptes montanus</i>
Sedge wren	<i>Cistothorus platensis</i>
Sprague's pipit	<i>Anthus spragueii</i>
Swainson's hawk	<i>Buteo swainsoni</i>
Three-toed woodpecker	<i>Picoides tridactylus</i>
Trumpeter swan	<i>Cygnus buccinator</i>
White-faced ibis	<i>Plegadis chihi</i>
Yellow rail	<i>Coturnicops noveboracensis</i>
Yellow-billed cuckoo	<i>Coccyzus americanus</i>

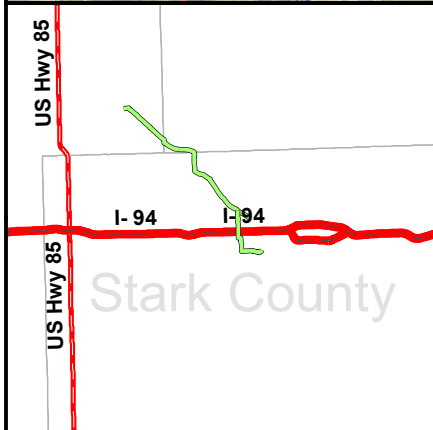
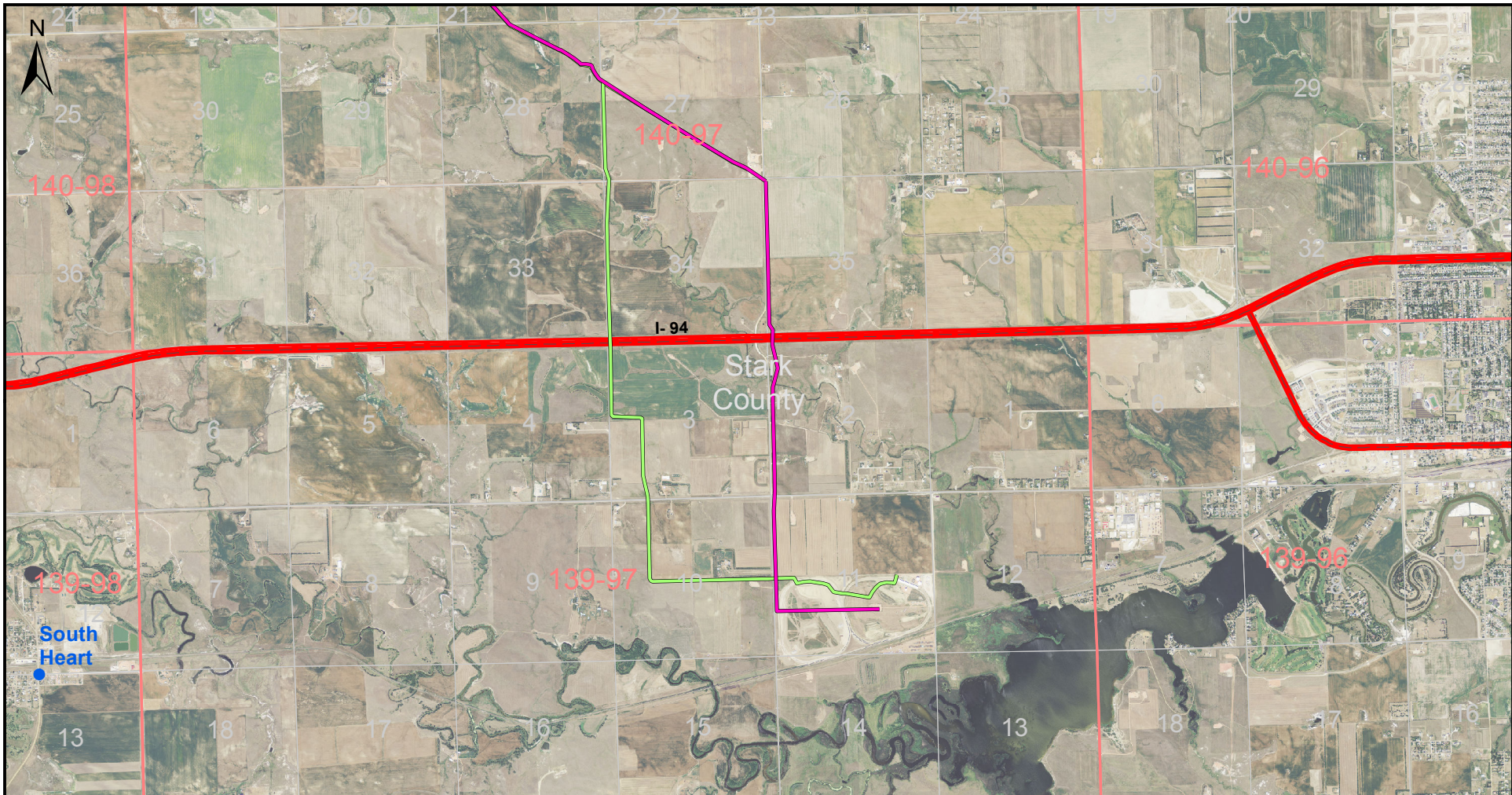
<b>TABLE 4.D.2.J</b>	
<b>BLM SENSITIVE SPECIES – FISH</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Arctic grayling (fluvial population)	<i>Thymallus arcticus montanus</i>
Northern redbelly X Finescale dace	<i>Phoxinus eos x Phoxinus neogaeus</i>
Paddlefish	<i>Polyodon spathula</i>
Pearl dace	<i>Margariscus margarita</i>
Sauger	<i>Stizostedion canadense</i>
Sturgeon chub	<i>Macrhybopsis gelida</i>
Westslope cutthroat trout	<i>Oncorhynchus clarki lewisi</i>
Yellowstone cutthroat trout	<i>Oncorhynchus clarki bouvieri</i>

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<b>TABLE 4.D.2.K</b>	
<b>BLM SENSITIVE SPECIES – REPTILES</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Greater short-horned lizard	<i>Phrynosoma hernandesi</i>
Milk snake	<i>Lampropeltis triangulum</i>
Snapping turtle	<i>Chelydra serpentina</i>
Spiny softshell	<i>Apalone spinifera</i>
Western hog-nosed snake	<i>Heterodon nasicus</i>

<b>TABLE 4.D.2.L</b>	
<b>BLM SENSITIVE SPECIES – AMPHIBIANS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Coeur d'Alene salamander	<i>Plethodon idahoensis</i>
Great Plains toad	<i>Bufo cognatus</i>
Northern leopard frog	<i>Rana pipiens</i>
Plains spadefoot	<i>Spea bombifrons</i>
Western toad	<i>Bufo boreas</i>

<b>TABLE 4.D.2.M</b>	
<b>BLM SENSITIVE SPECIES – INSECTS</b>	
<b>Common Name</b>	<b>Scientific Name</b>
Dakota skipper	<i>Hesperia dacotae</i>




**Legend**

- Original Dickinson Line
- Project Centerline - DOT Reroute
- Interstate
- U.S. Highway
- Township

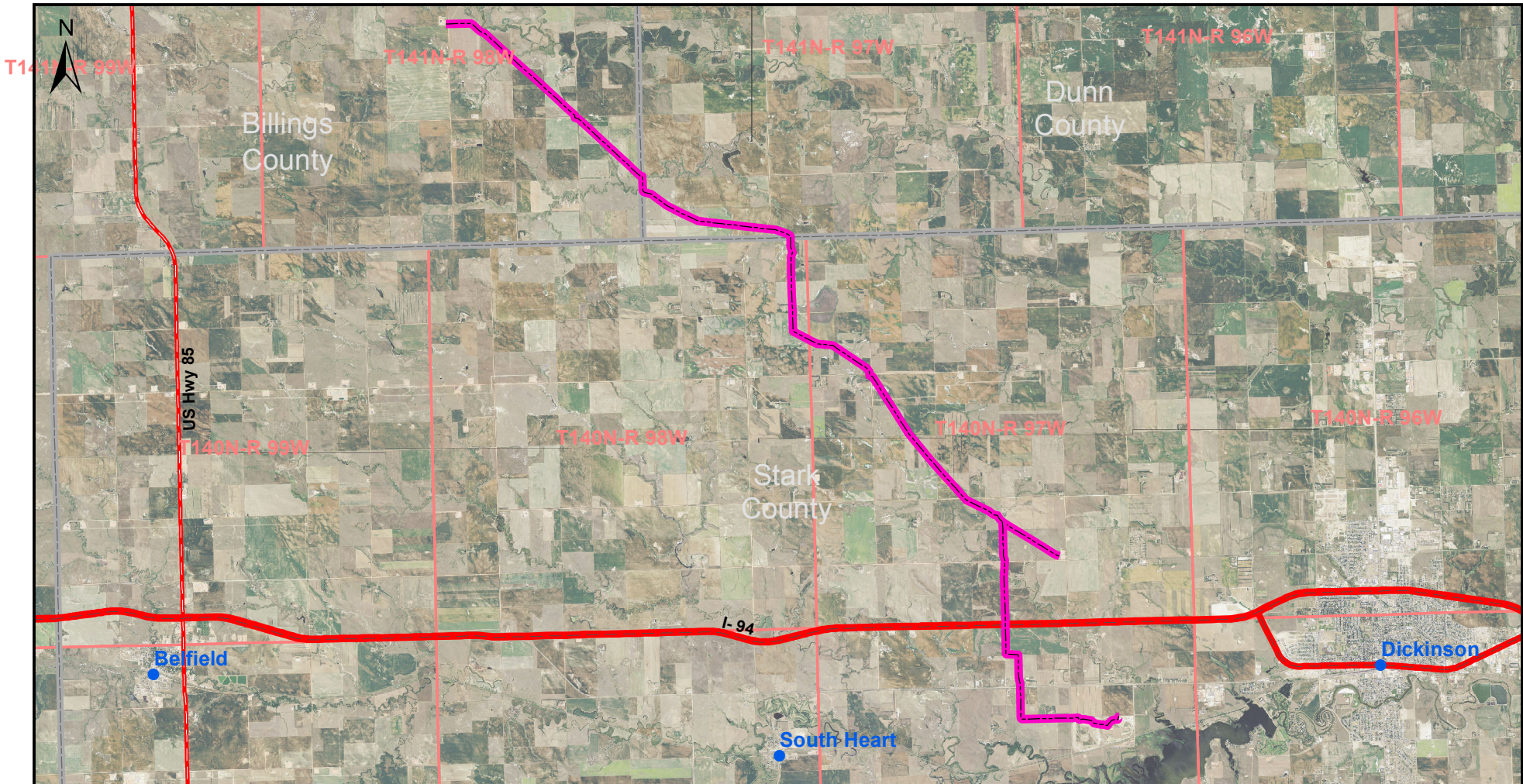
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0      0.5      1      2  
Miles



**10-inch Crude Oil  
Loop Pipeline**

**DOT Reroute**




**Legend**

- Project Centerline
- City
- Interstate
- U.S. Highway
- County
- Township

Printed: 3/7/2014

0      1.25      2.5      5  
Miles



**10-inch Crude Oil Loop Pipeline Overview Map**