

February 7, 2013

**HAND DELIVERED**

Mr. Patrick Fahn  
North Dakota Public Service Commission  
600 East Boulevard Avenue  
Dept. 408  
Bismarck, ND 58505-4080



**RE: BAKKENLINK PIPELINE, LLC  
8- and 12-INCH CRUDE OIL PIPELINE  
– CASE NUMBER PU-10-218**

Dear Mr. Fahn:

This letter is intended to supplement BakkenLink Pipeline, LLC's ("BakkenLink") request for four route amendments, which was submitted to the Public Service Commission ("Commission") on January 18, 2013. As you know, BakkenLink made an informal request for four route amendments, all of which were made with landowner approval, and none of which caused the pipeline to traverse a different landowner's property. The decision to submit the request in letter form was based on an earlier conversation with Commission staff, as well as the Commission's past actions, which lead BakkenLink to believe such a letter would be sufficient. On Friday, February 1, 2013, the Commission held two working sessions, wherein it discussed the different procedures for granting an amendment that is approved by the landowner. Following those working sessions, BakkenLink began diligently working to compile the information the Commission indicated that it required to approve the reroutes. On Wednesday February 6, 2013, the Commission held a third working session on the matter. At this working session, the Commission indicated its surprise that it had not yet received the requested information from BakkenLink. The Commission speculated that the need for reroute approval might not be urgent. To the contrary, BakkenLink urgently requires that the reroutes be approved so that it may continue pipeline construction. Further, BakkenLink has been working as quickly as possible to obtain all requested information. To that end, please find enclosed herewith the following documents:

Attorneys & Advisors / Fredrikson & Byron, P.A.  
main 701.2  
fax 701.22  
www.fredla

**119 PU-10-218** Filed: 2/7/2013 Pages: 46  
**Supplement to request for 4 route amendments**

1. Certification from Darren Snow regarding landowner approval and pipeline location;
2. [Redacted] Addendum 3 to BakkenLink Pipeline: A Class II and Class III Cultural Resource Inventory in Billings, Stark, Dunn, McKenzie, and Williams Counties, North Dakota: Continuing Reroute Options and Site Staking;
3. Letter from North Dakota State Historical Society concurring with “No Significant Sites” determination;
4. Letter from Carlson McCain detailing wetland and waterbodies survey, and certifying that no exclusion or avoidance areas will be impacted by the reroutes; and
6. Maps for publication in McKenzie County newspaper.

Please note that the attached Certification from Darren Snow is a copy. The original will be hand delivered to your office tomorrow, February 8, 2013. As indicated on the Certification, BakkenLink has received written approval by all landowners affected by the requested reroutes. Further, the Commission expressed concern at its working sessions regarding the Hoffman Reroute, in Section 35, Township 150 North, Range 98 West. As noted in BakkenLink’s January 18, 2013 letter to the Commission, this reroute was requested by the landowner to move the pipeline closer to an existing fenceline. The Commission has expressed concern that the reroute may parallel a section line, thus potentially affecting a county road. *See also* N.D.C.C. § 24-07-03 (stating that section lines are considered public roads open for public travel). However, the fenceline in question parallels a quarter-section line; therefore Section 24-07-03 does not apply and no county roads are affected. Further, the Arrow Receipt Point Reroute slightly adjusts the location at which the pipeline will perpendicularly cross a section line. Because the county has already approved the crossing, and BakkenLink typically bores under county roads, this reroute also does not affect a county road.

Please contact our office if you should have any questions.

Sincerely,



LAWRENCE BENDER

LB/jrr

Enclosures

cc: Commissioner Brian P. Kalk  
Commissioner Randy Christmann  
Commissioner Julie Fedorchak  
Jerry Lien  
Darren Snow (*via e-mail w/ encl.*)

BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF NORTH DAKOTA

**BakkenLink Pipeline LLC  
Crude Oil Pipeline — Williams to Billings County  
Siting Application**

CASE NO. PU-10-218

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Certification of Darren Snow in Support of the Application of BakkenLink  
Pipeline LLC for an Amended Corridor Certificate and Route Permit

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STATE OF NORTH DAKOTA

COUNTY OF BURLEIGH

Darren Snow states and alleges as follows:

1. That I submit this affidavit in support of the application for an amended Certificate of Corridor Compatibility and Route Permit and the Application for Waiver or Reduction of Procedures and Time Schedules, filed by BakkenLink Pipeline LLC (“BakkenLink”) in the above-captioned matter.

2. That I am employed by BakkenLink and I am the Vice President with regard to BakkenLink’s proposed crude oil pipeline project that is the subject of the above-captioned matter.

3. That on February 29, 2012, the North Dakota Public Service Commission (“Commission”) issued its Order granting BakkenLink a Certificate of Corridor Compatibility and Route Permit for the Project.

4. That on September 5, 2012, the Commission issued its Order granting BakkenLink a First Amended Certificate of Corridor Compatibility and First Amended Route Permit for the Project (“Order”).

5. That BakkenLink requests the Commission approve a modification of the

approved Project route and corridor in Billings, Stark, and McKenzie Counties, North Dakota.

6. That BakkenLink is requesting the proposed route and corridor modifications for several reasons. First, three of the reroutes are at landowner request. The first reroute, the “Knapp Reroute” will relocate the route a maximum of 265 feet west of the original route. This reroute is requested to avoid constructing through a woody draw. The second reroute, the “Lillibridge Reroute,” will relocate the route a maximum of 280 feet south of the original route. This reroute is requested to avoid constructing through known scoria deposits located on the property. The third reroute, the “Hoffmann Reroute,” will relocate the route a maximum of 175 feet west of the original route. This reroute is requested to move the pipeline closer to an existing fenceline, which is parallel to a quarter-section line. Further, this reroute will avoid a tribal cultural site identified by the Tribal Monitors. Second, the Arrow Receipt Point has been relocated. As a result of the relocation, BakkenLink requests permission to reroute the lateral line to the Arrow Receipt point, and to relocate the pig launching and receiving station that will be constructed at the inception point of the lateral line.

7. That requested reroutes do not impact any new exclusion or avoidance areas. All necessary environmental and archaeological reviews of these reroutes have been completed, including such on site reviews as were necessary. The route changes will not affect any of the Public Service Commission exclusion, avoidance, or selection criteria. The route changes do not involve any water crossings or section line crossings. Furthermore, BakkenLink confirmed that no cultural sites are affected by these reroutes and the overall impacts from construction activities are expected to be reduced due to the fact that the total lineal feet of pipeline installed will be shortened by over 2,000 feet.

8. That no existing or future county roads will be affected by the requested reroutes.

9. That the pipeline is currently under construction between Arrow and Fryburg, with anticipated completion by May 2013. The minor route changes BakkenLink is requesting are located within this segment. Over 250 construction workers are presently employed.

10. That, because the requested reroutes (1) do not affect any new landowners, (2) have been requested and approved by all landowners, (3) do not affect any new exclusion or avoidance areas, and (4) do not adversely impacted any selection criteria, BakkenLink requests the Commission staff grant BakkenLink's requested route and corridor amendments as soon as possible.

  
Darren Snow

5321166\_1.DOCX



## Addendum Survey Report

Submitted by Metcalf Archaeological Consultants, Inc.

PO Box 2154, Bismarck, North Dakota 58502

Phone: (701) 258-1215, Email: macnodak@metcalfarchaeology.com

1. **Report Title:** Addendum 3 to BakkenLink Pipeline: A Class II and Class III Cultural Resource Inventory in Billings, Stark, Dunn, McKenzie, and Williams Counties, North Dakota: Continuing Reroute Options and Site Staking
2. **Author:** Andrea Kulevsky
3. **Report Date(s):** December 2012
4. **Fieldwork Date:** August 1-November 28, 2012
5. **Acreage:** 293
6. **Project Sponsor:** Bartlett & West Engineering, Bismarck, ND
7. **Historic Context (Study Unit):** The Little Missouri Study Unit (Unit #1), the Heart River Study Unit (Unit #4), and the Garrison Study Unit (Unit #6)
8. **Legal Description/Location of Project Area:** The legal locations of reroute options and staked sites are detailed in Tables 1 and 2.
9. **Description of Project:** This addendum details the results of continuing cultural resources investigations for the BakkenLink Pipeline project (Kulevsky & Stine 2012, Kulevsky 2012a, b). Described herein are the results of surveys for 15 reroute options, five access roads and four areas for additional workspace. The extra workspaces are areas of false right of way to be used to string pipe at horizontal directional drill (HDD) locations.

Several of the reroute options were developed late in the process, after construction had started but before construction had commenced in the vicinity of the reroute option location. The survey corridor for centerline reroute options was 500 feet for the most part, but was 100 feet for those late reroute options. Additional variations include the Levang reroute option in [REDACTED], where a small block to the southwest of the centerline was also surveyed to allow ample room to avoid 32MZ793. At another location (the Baranko reroute option in [REDACTED]), the proposed route changed between the time MAC received the GPS data from Bartlett & West and the time the survey was conducted. At that location a 6.8-acre area was inventoried based on a verbal description of the proposed route and to allow ample room.

At access roads, the survey corridor was 150 feet. At the additional temporary workspaces, one segment was 75 feet wide and the other three were 50 feet wide.

In addition, 12 sites were staked for avoidance during construction.

10. **Records Search:** Files searches for this undertaking have been reported elsewhere and are not repeated here (Kulevsky & Stine 2012).



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<b>Table 1: Reroute Options, Access Roads and EWS<sup>1</sup>, BakkenLink Pipeline</b>							
<b>Name/Site</b>	<b>T/R-Sec</b>	<b>Action</b>	<b>ROW width</b>	<b>Acres</b>	<b>Results</b>	<b>Comments</b>	<b>Map</b>
Hecker reroute option		Class III	100	3.2	NCR <sup>2</sup>		
Whiting reroute option		Class II/ Class III	100	1.6	NCR		
Green River EWS		Class III	50	1.8	NCR		
Baranko reroute option		Class III	100	6.8	NCR	Small block surveyed to ensure coverage	
Baranko landowner request reroute option		Class II				Passes through 32BI1098; the site is not eligible for the NRHP	
Baranko reroute option		Class III	500	8.0	NCR		
Access road		Class III	150	4.2	NCR		
Malkowski reroute option		Class II			NCR	Within previous survey ROW	
Schroeder reroute option		Class III	500	5.1	NCR	Route avoids 32MZ1647	
Glovatsky reroute option		Class III	500	23.1	NCR		
Knapp reroute option		Class III	500	45.3	NCR		
Access road		Class III	150	9.5	NCR		
Knapp reroute option		Class II			NCR	Within previous survey ROW	
South Bluff Top ATWS		Class III	75	0.5	NCR	300 feet x 75 feet	
Access road		Class III	150	2.0	NCR		
Tarnavsky EWS		Class III	50	5.9	NCR	5162 feet x 50 feet	
North Bluff Top EWS		Class III	50	3.5	NCR	3060 feet x 50 feet	
Stevenson reroute option		Class III	500	5.6	NCR		
Levang reroute option		Class III	500	87.7	32MZ793	MAC staked the site at the time of the survey	
Lillibridge reroute option		Class III	500	37.4	NCR		
Access road		Class II/ Class III	150	9.7	NCR	Much of access road has been bladed and graveled; that portion not intensively inventoried	
Ravin/Veeder/ Klamm reroute option		Class II			NCR	Within previous survey ROW	
Access road		Class II/ Class III	150	1.3	NCR	Much of access road has been bladed and graveled; that portion not intensively inventoried	
Hoffman reroute option		Class III	500	30.9	NCR		

<sup>1</sup> EWS: Extra Workspace

<sup>2</sup> NCR: No cultural resources



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Site	T/R-Sec	Comments	Map
32MZ793		Site relocated during the Levang survey; staked at that time	
32MZ1311			
32MZ1484			
32MZ2311			
32MZ2313			
32MZ2351			
32MZ2353			
32MZ2356		Site impacted (see text)	
32MZ2357			
32MZ2358			
32MZ2359			
32MZ2360			

- Field Personnel:** These inventories were conducted by Andrea Kulevsky, Bill Bates, Cat Cael, Bill Christensen, Laura Evilsizer, Jeremiah Hull, and Kimberly Troendle. Kulevsky served as project director and Kimball Banks served as principal investigator.
- Field Methods and Conditions:** The cultural resource inventory conformed to *North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects* (SHSND 2012) and followed the methodology used on the other cultural resource inventories for the BakkenLink Pipeline (Kulevsky and Stine, 2012, Kulevsky 2012a, 2012b). Three of the reroute options were not intensively inventoried because they fall within the surveyed corridors from previous routes of the BakkenLink pipeline.

The reroute options were largely in areas of native prairie (Figure 1). Vegetation consisted of mixed prairie grasses and forbs with ground surface visibility ranging from 5 to 25 percent. At the Stevenson reroute option, much of the reroute option was tree covered. The Schroeder reroute option was a plowed agricultural field, which at the time of the survey was covered with mowed hay. Portions of the Levang reroute option have been plowed, parts of which had been turned sometime shortly before the inventory and parts of which were covered with wheat stubble. On the Lillibridge reroute option, a small agricultural outbuilding, probably a feed station of some kind, was encountered. This building did not appear to be more than 50 years old and was not recorded.

The 12 sites within or near the construction right of way (ROW) staked for avoidance include 32MZ793, 32MZ1311, 32MZ1484, 32MZ2311, 32MZ2313, 32MZ2351, 32MZ2353, 32MZ2356, 32MZ2357, 32MZ2358, 32MZ2359, and 32MZ2360. Fencing had been recommended as an avoidance measure for these sites. This list does not exactly match sites listed for fencing in the recommendations of Addendum 1 (Kulevsky 2012a: Appendix B). Changes in the pipeline routing resulted in these changes. Site 32MZ793 was not within the original ROW but was encountered during the survey of the Levang reroute option and was staked at the time of the survey.

Staking was accomplished using a combination of metal T-stakes and wood lath. Stakes (either metal or wood) were placed approximately 7 meters apart along the edge of the sites and spray painted blue. Bartlett & West or the construction contractors will actually place the fence.

On August 8, 2012, MAC archaeologists visited 32MZ2356 to stake it for avoidance. At that time, geotech crews associated with the pipeline were boring on land outside the pipeline ROW. The archaeologists observed that a geotech crew had driven across the site to access their current boring location and that they had drilled one bore hole in the site area (Figures 2-4).

The archaeologists evaluated the impact and determined that use of the site area for access appears to have resulted in little if any disturbance to the site. While vegetation had been knocked down, driving across the site has not created any ruts. At worst, minor compression may have resulted.

Boring has impacted the site, but that impact also appears to be minor. The bore hole is 8 inches in diameter. Three small areas of tire ruts are adjacent to the hole but none of the ruts is longer than 1 meter and none are deeper than 2-4 cm. The entire area disturbed by the boring is less than 100 m<sup>2</sup> and appears larger than it actually is because mud, brought up in the coring, had dried on the surface. Oil had apparently been spilled over an area approximately 1 m<sup>2</sup>.

13. **Results and Recommendations:** One site was encountered during the inventory. Site 32MZ793 has been recorded previously. When it was originally recorded, it was described as a sparse cultural material scatter with numerous rock “clusters,” some of which were clearly field clear piles, though others were clearly older (Metcalf 1985). Preliminary testing indicated that there were buried cultural deposits, though no NRHP recommendation was made. An update in 2011 resulted in the formal recording of three cairns, though the site as a whole was not investigated (Stine 2011). When the site was revisited during this investigation, five possible cairns were recorded along the south and east portions of the site (Figure 5), though again the site as a whole was not investigated. The possible cairns are approximately 1 meter in diameter and contain from six to twenty stones. Generally they are located on the edge of the landform so it is possible that they are natural erosional features. The site was fenced during this inventory and the centerline has been moved 180 feet (55 meters) to the south and west of the site.

A finding of *No Historic Properties Affected* is recommended for the portions of the project as herein surveyed, mapped, and described.

#### 14. References

Kulevsky, Andrea

2012a Addendum 1 to BakkenLink Pipeline: A Class II and Class III Cultural Resource Inventory in Billings, Stark, Dunn, McKenzie, and Williams County, North Dakota. Prepared by Metcalf Archaeological Consultants, Inc., Bismarck, North Dakota.

Prepared for Bartlett & West Engineering, Bismarck, North Dakota. Manuscript on file at the State Historical Society of North Dakota, Bismarck.

2012b Addendum 2 to BakkenLink Pipeline: A Class II and Class III Cultural Resource Inventory in Billings, Stark, Dunn, McKenzie, and Williams County, North Dakota: Access roads and reroutes. Prepared by Metcalf Archaeological Consultants, Inc., Bismarck, North Dakota. Prepared for Bartlett & West Engineering, Bismarck, North Dakota. Manuscript on file at the State Historical Society of North Dakota, Bismarck.

Kulevsky, Andrea and Ed Stine

2012 BakkenLink Pipeline: A Class II and Class III Cultural Resource Inventory in Billings, Stark, Dunn, McKenzie, and Williams County, North Dakota. Prepared by Metcalf Archaeological Consultants, Inc., Bismarck, North Dakota. Prepared for Bartlett & West Engineering, Bismarck, North Dakota. Manuscript on file at the State Historical Society of North Dakota, Bismarck.

Metcalf, M.

1985 32MZ793 site form. 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>.

Stine, Ed

2011 32MZ793 Update site form. On file at the State Historical Society of North Dakota

**Addendum Survey Report**  
Map and Photo Section

**Map 1:** The Hecker reroute option in [REDACTED], depicted on the USGS 7.5' Belfield (1981) quadrangle map

# Addendum Survey Report

Map and Photo Section

**Map 2:** The Whiting reroute option in [REDACTED], depicted on the USGS 7.5' Belfield (1981) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 3:** The Green River EWS in [REDACTED] depicted on the USGS 7.5' Rattlesnake Butte (1963) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 4:** The Baranko reroute options and an access road, in [REDACTED]  
[REDACTED], depicted on the USGS 7.5' Fairfield (1963) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 5:** The Malkowski reroute option in [REDACTED], depicted on the USGS 7.5' Fairfield (1963) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 6:** The Schroeder and Glovatsky reroute options in [REDACTED], depicted on the USGS 7.5' Grassy Butte SW (1974) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 7:** Two Knapp reroute options and 32MZ2357, 32MZ2358, and 32MZ2359 in [REDACTED], depicted on the USGS 7.5' Grassy Butte (1974) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 8:** The access road in [REDACTED], depicted on the USGS 7.5' Grassy Butte (1974) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 9:** The South Bluff Top EWS, 32MZ1311, and 32MZ2360 in [REDACTED], depicted on the USGS 7.5' Lone Butte (1958) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 10:** The access road in [REDACTED], depicted on the USGS 7.5' Lone Butte (1958) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 11:** The Tarnavsky EWS, 32MZ1484, and 32MZ2311, in [REDACTED], depicted on the USGS 7.5' Grassy Butte (1974) and Lone Butte (1958) quadrangle maps.

**Addendum Survey Report**  
Map and Photo Section

**Map 12:** The North Bluff Top EWS and 32MZ2356 in [REDACTED]  
[REDACTED], depicted on the USGS 7.5' Lone Butte (1958) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 13:** Site 32MZ2313 in [REDACTED] depicted on the USGS 7.5' Teepee Buttes (1958) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 14:** The Stevenson reroute option and 32MZ2353 in [REDACTED], depicted on the USGS 7.5' Lone Butte NW (1959) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 15:** The Levang reroute option, associated block, and 32MZ793 in [REDACTED], depicted on the USGS 7.5' Johnsons Corner (1965) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 16:** The Lilibridge reroute option in [REDACTED], depicted on the USGS 7.5' Johnsons Corner (1965) and Schafer SE (1978) quadrangle maps.

**Addendum Survey Report**  
Map and Photo Section

**Map 17:** The Ravin/Veeder/Klamm reroute option and access road in [REDACTED], depicted on the USGS 7.5' Schafer SE (1978) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 18:** Site 32MZ2351 in [REDACTED], depicted on the USGS 7.58' Schafer SE (1978) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 19:** The access road in [REDACTED] depicted on the USGS 7.5' Schafer (1978) quadrangle map.

**Addendum Survey Report**  
Map and Photo Section

**Map 20:** The Hoffman reroute option in [REDACTED], depicted on the USGS 7.5' Schafer (1978) quadrangle map.

## Addendum Survey Report

Map and Photo Section



**Figure 1:** View to the west of the APE (Lillibridge reroute option), showing typical native prairie (Image 2012-8-8-180).



**Figure 2:** Overview of the disturbed area at 32MZ2356 (Image 2012-8-8-191).

**Addendum Survey Report**  
Map and Photo Section



**Figure 3:** Close-up of the disturbance of 32MZ2356 (Image 2012-8-8-189).

**Addendum Survey Report**  
Map and Photo Section

**Figure 4:** The maximum extent of the disturbance at 32MZ2356.

**Addendum Survey Report**  
Map and Photo Section

**Figure 5:** Sketch of 32MZ793.



**STATE  
HISTORICAL  
SOCIETY  
OF NORTH DAKOTA**

**RECEIVED**

**DEC 14 2012**

**BISMARCK**

Jack Dalrymple  
Governor of North Dakota

North Dakota  
State Historical Board

Gerold Gertholz  
Valley City - President

Calvin Grinnell  
New Town - Vice President

A. Ruric Todd III  
Jamestown - Secretary

Albert I. Berger  
Grand Forks

Diane K. Larson  
Bismarck

Chester E. Nelson, Jr.  
Bismarck

Margaret Puetz  
Bismarck

Sara Otte Coleman  
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Parks and Recreation  
Department

Francis Ziegler  
Director  
Department of Transportation

Merlan E. Paaverud, Jr.  
Director

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December 13, 2012

Mr. James Todd  
Bartlett & West Engineers  
3456 East Century Avenue  
Bismarck ND 58503

ND SHPO Ref: 11-0238D BLM/PSC BakkenLink "Addendum 3 to Bakkenlink Pipeline: A Class II and Class III Cultural Resource Inventory in Billings, Stark, Dunn, McKenzie and Williams County, North Dakota: Continuing Reroute Options and Site Staking"

Dear Mr. Todd,

We reviewed ND SHPO Ref: 11-0238D BLM/PSC BakkenLink "Addendum 3 to Bakkenlink Pipeline: A Class II and Class III Cultural Resource Inventory in Billings, Stark, Dunn, McKenzie and Williams County, North Dakota: Continuing Reroute Options and Site Staking," and find the report acceptable, with project review on-going. Compliance with lead federal agency (i.e. BLM) regulations and attendant federal agency review, comment, recommendations, and permitting also is a contingent condition that applies in this case, and that action awaits agency determination of project effect and SHPO concurrence on findings. Regarding the state regulatory process, (PSC) we concur with a "No Significant Sites" recommendation, provided all project reroutes are followed and provided all staked sites are avoided, (see pages 3-4 of report, attached).

Thank you for the opportunity to review this project to date. Please include the ND SHPO Reference number listed above in further correspondence for this specific project. If you have any questions please contact Susan Quinnell, Review and Compliance Coordinator at (701) 328-3576, or [squinnell@nd.gov](mailto:squinnell@nd.gov)

Sincerely,

Merlan E. Paaverud, Jr.  
State Historic Preservation Officer (North Dakota)

- C: Patrick Fahn, PSC
- C: Justin Peters, BLM Dickinson
- C: Kimball Banks, MAC, Bismarck



ENVIRONMENTAL • ENGINEERING • LAND SURVEYING

February 4, 2013

Mr. Jame Todd  
Barlett and West Engineers, Inc  
3456 30<sup>th</sup> Avenue Northeast  
Bismarck, ND 58503-0737

**RE: BakkenLink Pipeline Reroutes**

Dear Mr. Todd,

Carlson McCain has reviewed the proposed reroutes to the BakkenLink Pipeline (as depicted on the attached figures) in accordance with the North Dakota Public Service Commission (Commission) evaluation criteria set forth in the North Dakota Administrative Code (NDAC) §69-06-08-02(1) and (2). No exclusion or avoidance areas will be included within a half-mile corridor on either side of the proposed centerline.

In addition, Carlson McCain completed a survey for wetlands and waterbody crossings during the 2012 field season. Locations and sizes of wetlands and waterbodies crossed by the proposed route(s) are summarized in the attached table and depicted in the figures. A tree and shrub inventory is also complete along the proposed reroute(s).

Please call me at 701-595-7001 or Chad Tucker at 701-595-7007 if you have any questions or need additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Todd Hartleben', with a long horizontal flourish extending to the right.

Todd Hartleben, PE  
Senior Engineer

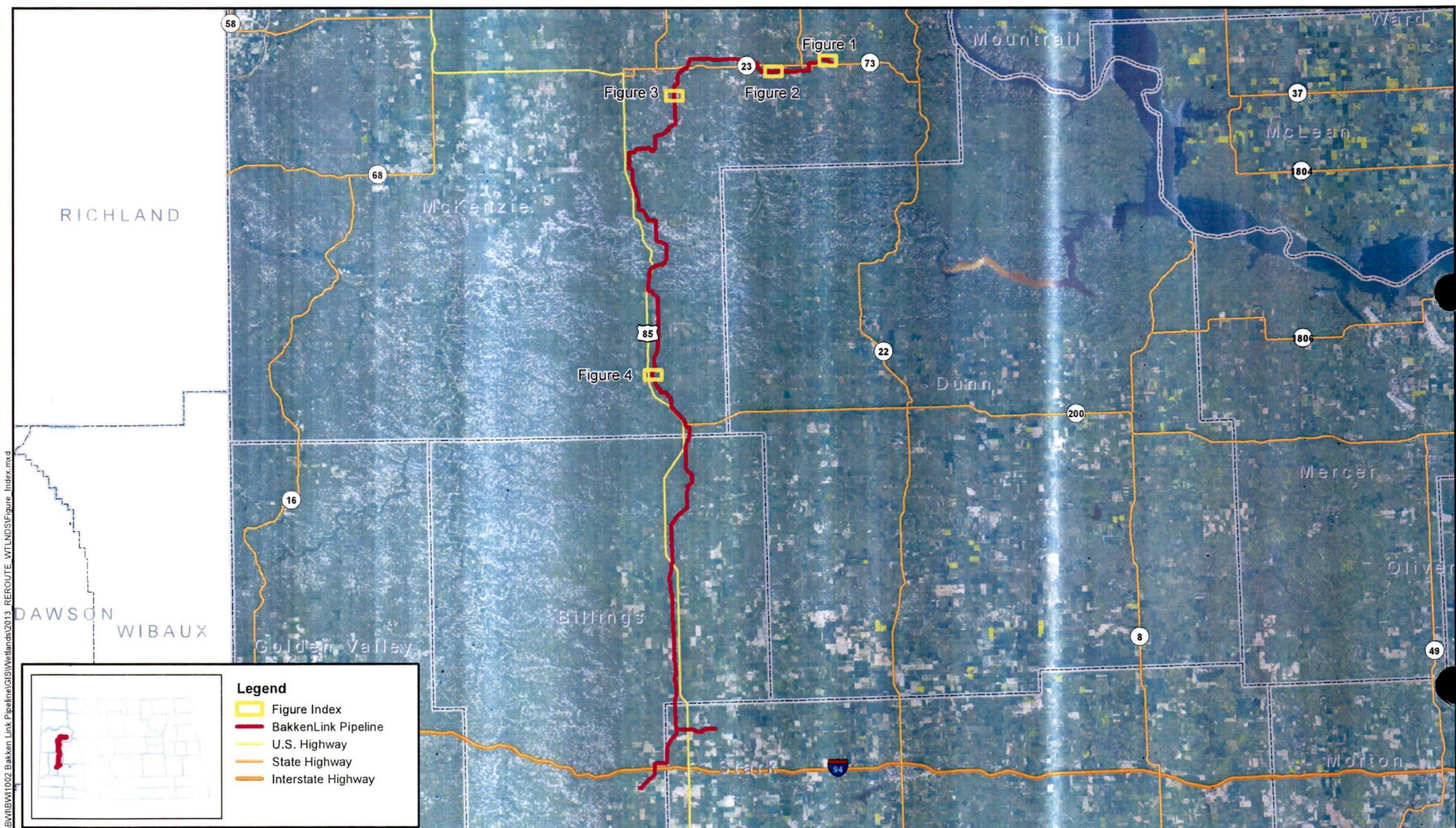
Attachment(s)

cc: Darren Snow, BakkenLink Pipeline LLC  
Lawrence Bender, Frederickson & Byron PA  
Jarrett Davis, PSC Consultants

Table 1. Wetland and Waterbody Crossings

Wetland ID	Figure	Type	Comment	Sec	TWP	RNG
18150095-s1	1	Waterbody	Unnamed Tributary to Dry Creek	18	150	95
20150096-s2	2	Waterbody	Intermittent	20	150	96
20150096-s1	2	Waterbody	Ephemeral	20	150	96
20150096-s5	2	Waterbody	Intermittent	20	150	96
20150096-s4	2	Waterbody	Ephemeral	20	150	96
01145099-w2	4	Depression	NWI - None	1	145	99

\* The Hoffman Reroute (Sec. 35 T150N R098W) crossed no wetlands or waterbodies.




February 2013 E:\projects\BakkenLink Pipeline\GIS\Wetlands\2013\_REROUTE\_WTL\ND\GIS\Figure\_Index.mxd



**Legend**

- Figure Index
- BakkenLink Pipeline
- U.S. Highway
- State Highway
- Interstate Highway



**Carlson  
McCain**

ENVIRONMENTAL ENGINEERING SURVEYING  
500 South 2nd Street, Suite 109, Bismarck, North Dakota 58504  
www.carlsonmccain.com

1:506,880      1 inch = 8 miles

0      4      8  
Miles

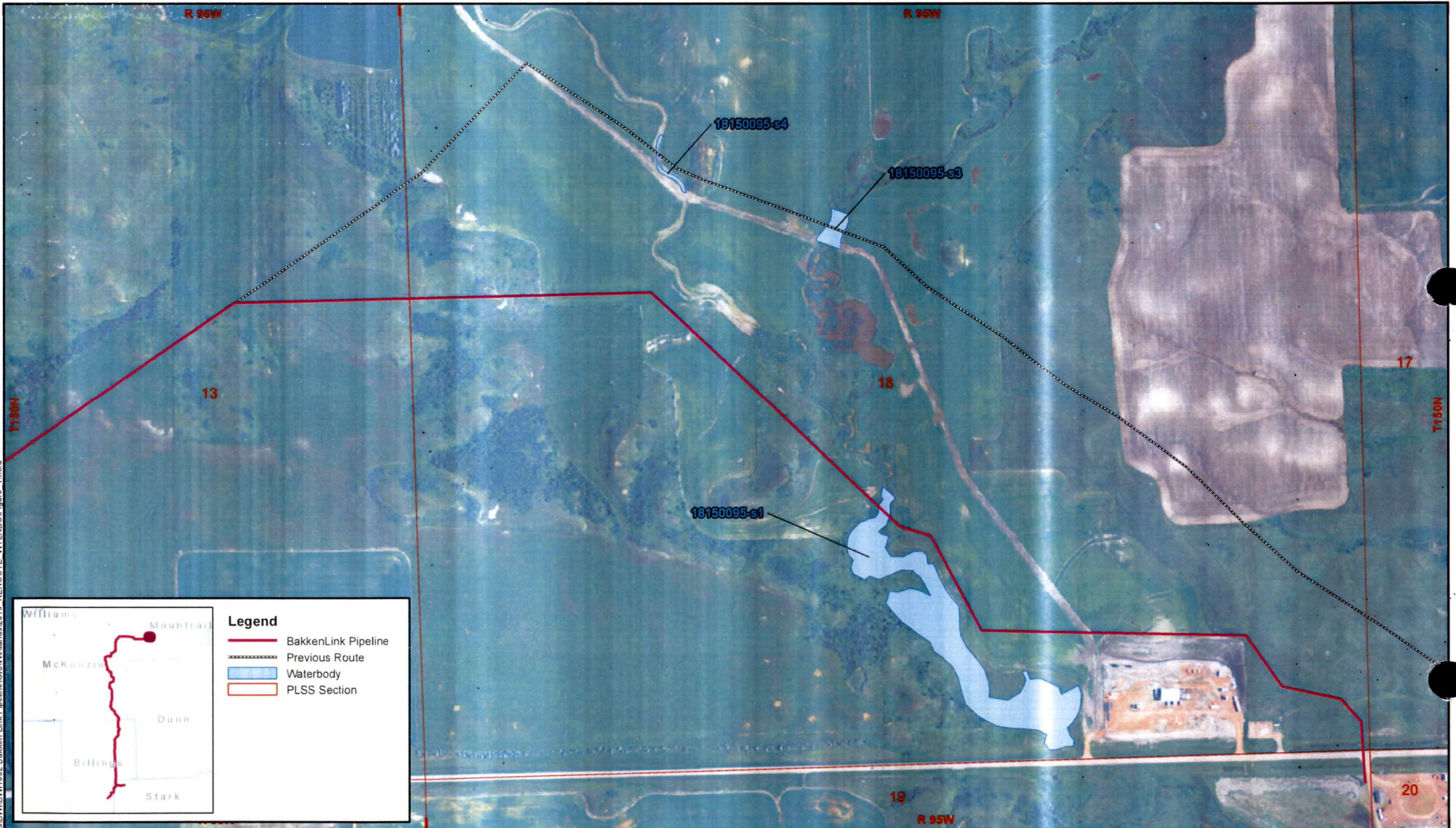
Basemap: Basemap: NAIP Orthophoto 2012  
State of North Dakota

**BakkenLink Pipeline, LLC**

**BakkenLink Pipeline**  
Billings, McKenzie,  
and Stark Counties

**FIGURE INDEX**  
Wetlands and Waterbodies  
BakkenLink Reroutes

February 2013 - E:\projects\BIBW102 Bakken Link Pipeline\GIS\Wetlands\2013\_REROUTE\_WTL\NDSP\Figure\_1.mxd



**Legend**

- BakkenLink Pipeline
- Previous Route
- Waterbody
- PLSS Section

**Inset Map:** Shows the location of the project area in North Dakota, with labels for Williams, McKenzie, Billings, Stark, Mountrail, and Dunn counties.

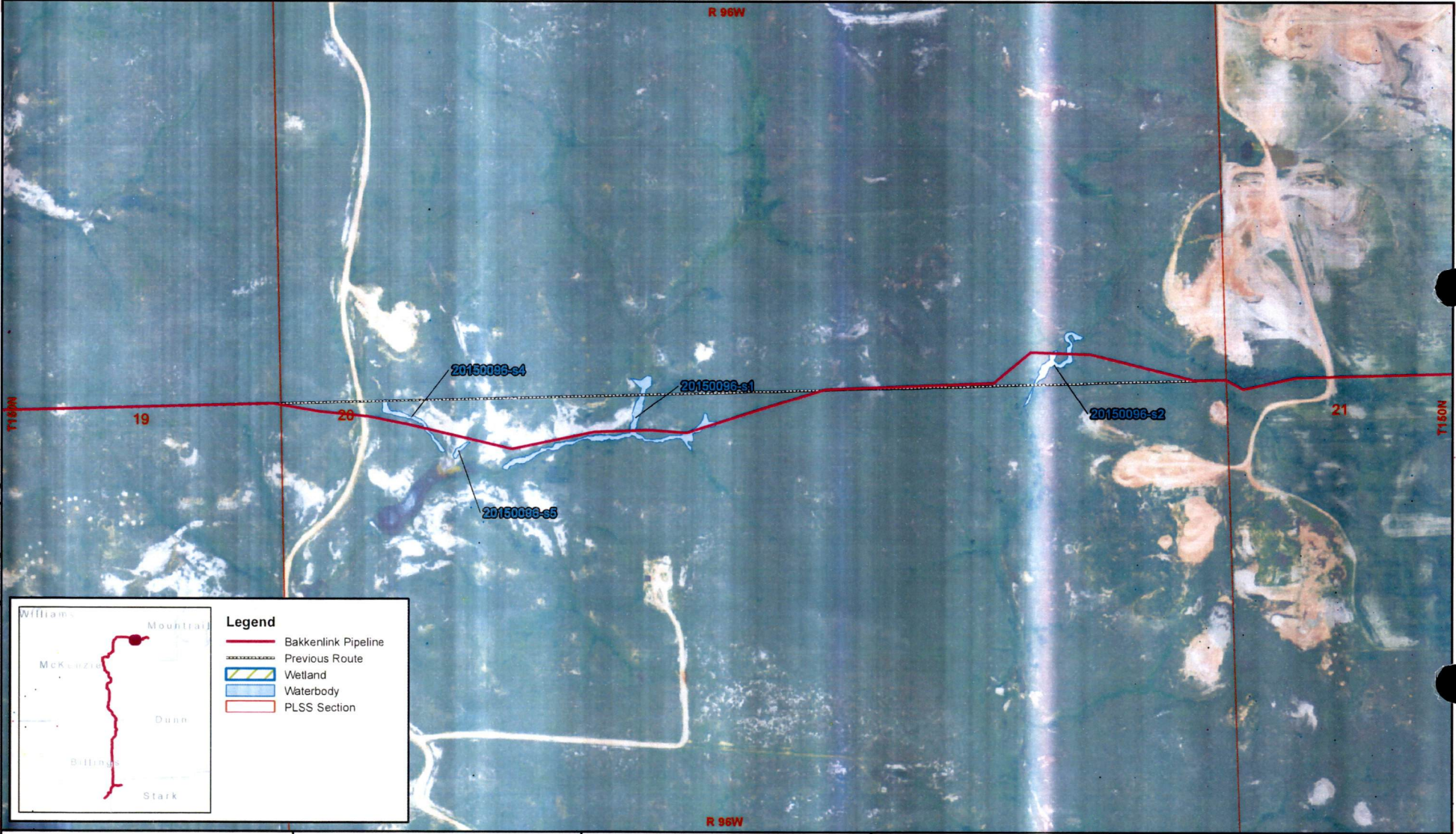
**Carlson McCain**  
 ENVIRONMENTAL ENGINEERING SURVEYING  
 600 South 29th Street, Suite 105 Bismarck, North Dakota 58504  
 www.carlsonmccain.com

1:6,000 1 inch = 500 feet  
 0 250 500 Feet  
 Basemap: NAIP Orthophoto 2012  
 McKenzie County, North Dakota

BakkenLink Pipeline, LLC

BakkenLink Pipeline  
Levang Reroute  
Sec. 13 & 18 T150N R96W

**FIGURE 1**  
Wetlands and Waterbodies  
BakkenLink Reroutes



**Legend**

- BakkenLink Pipeline
- Previous Route
- Wetland
- Waterbody
- PLSS Section

February 2013 R:\projects\BakkenLink Pipeline\GIS\Wetlands\2013\_REROUTE\_WTLNDS\Figure\_2.mxd

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McCain**  
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600 South 2nd Street, Suite 102, Bismarck, North Dakota 58504  
www.carlsonmccain.com

1:6,000      1 inch = 500 feet

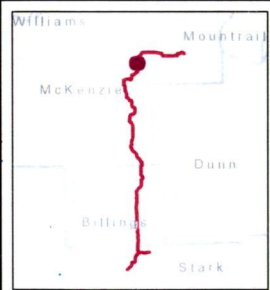
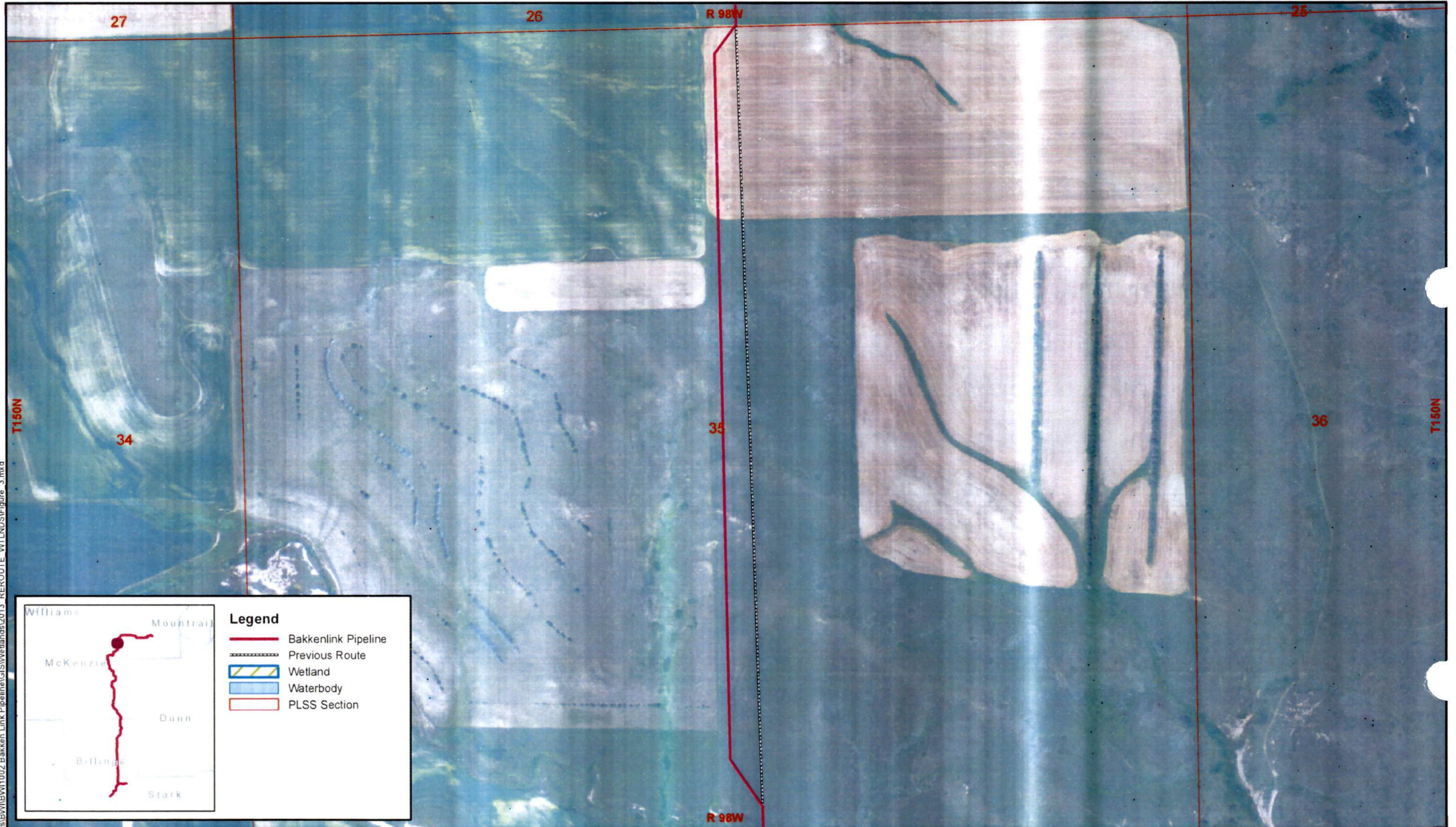
0    250    500  
Feet

Basemap: NAIP Orthophoto 2012  
McKenzie County, North Dakota

**BakkenLink Pipeline, LLC**

**BakkenLink Pipeline**  
Lillibridge Reroute  
Sec. 20 T150N R96W

**FIGURE 2**  
**Wetlands and Waterbodies**  
**BakkenLink Reroutes**



**Legend**

- BakkenLink Pipeline
- - - Previous Route
- Wetland
- Waterbody
- PLSS Section

February 2013

R:\projects\BakkenLink Pipeline\GIS\Wetlands\2013\_REROUTE\_WTLNDS\Figure\_3.mxd

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 www.carlsonmccain.com

1:6,000      1 inch = 500 feet

0    250    500  
 Feet

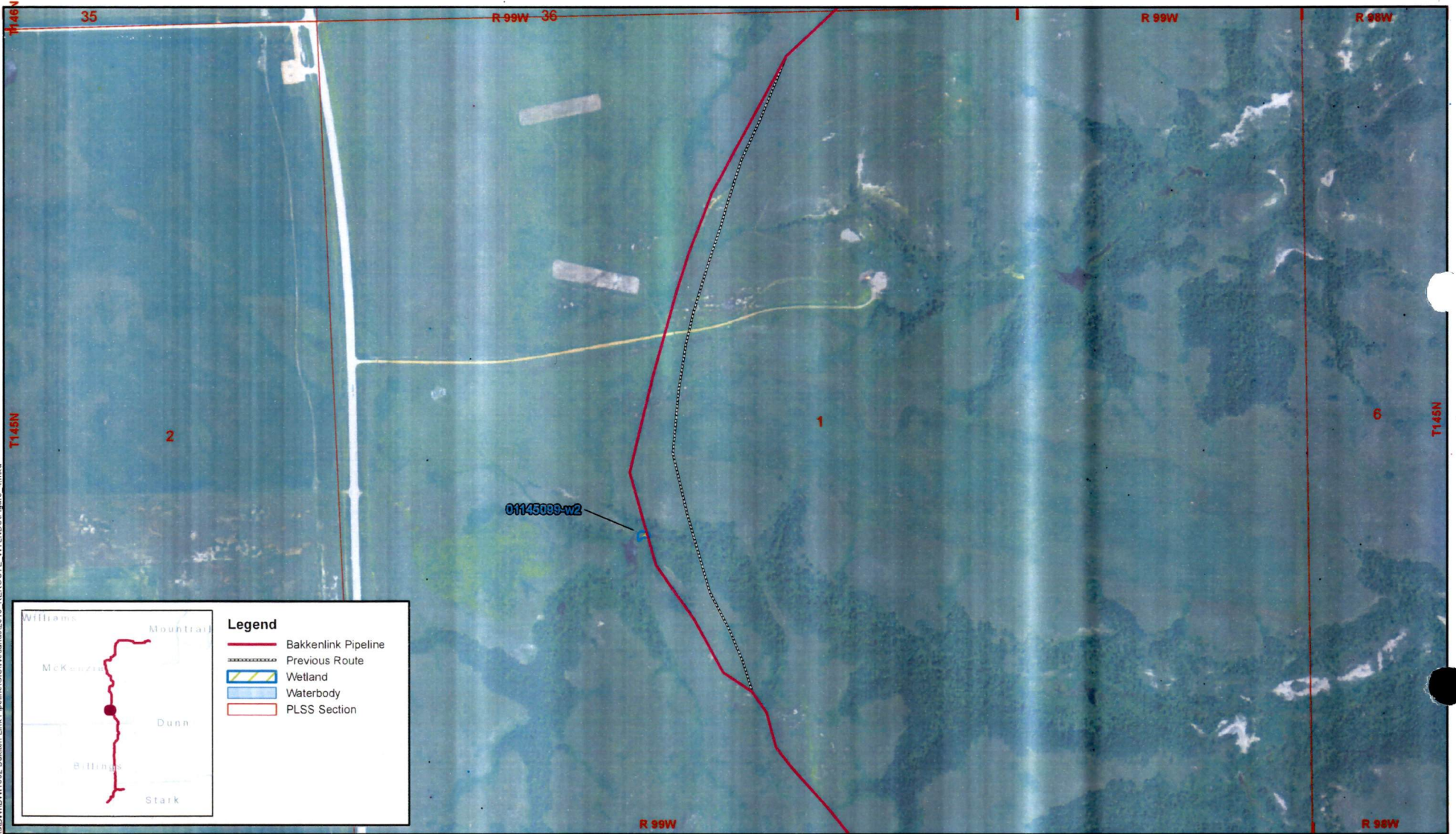
Basemap: NAIP Orthophoto 2012  
 McKenzie County, North Dakota

**BakkenLink Pipeline, LLC**

**BakkenLink Pipeline**  
 Hoffman Reroute  
 Sec. 35 T150N R98W

**FIGURE 3**  
**Wetlands and Waterbodies**  
**BakkenLink Reroutes**

February 2013 R:\projects\BIB\BIB\002 Bakken Link Pipeline\GIS\Wetlands\2013\_REROUTE\_WTLNDS\Figure 4.mxd



**Legend**

- BakkenLink Pipeline
- Previous Route
- Wetland
- Waterbody
- PLSS Section

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McCain**  
ENVIRONMENTAL ENGINEERS & SURVEYORS  
800 South 21st Street, Suite 105, Bismarck, North Dakota 58504  
www.carlsonmccain.com

1:6,000      1 inch = 500 feet

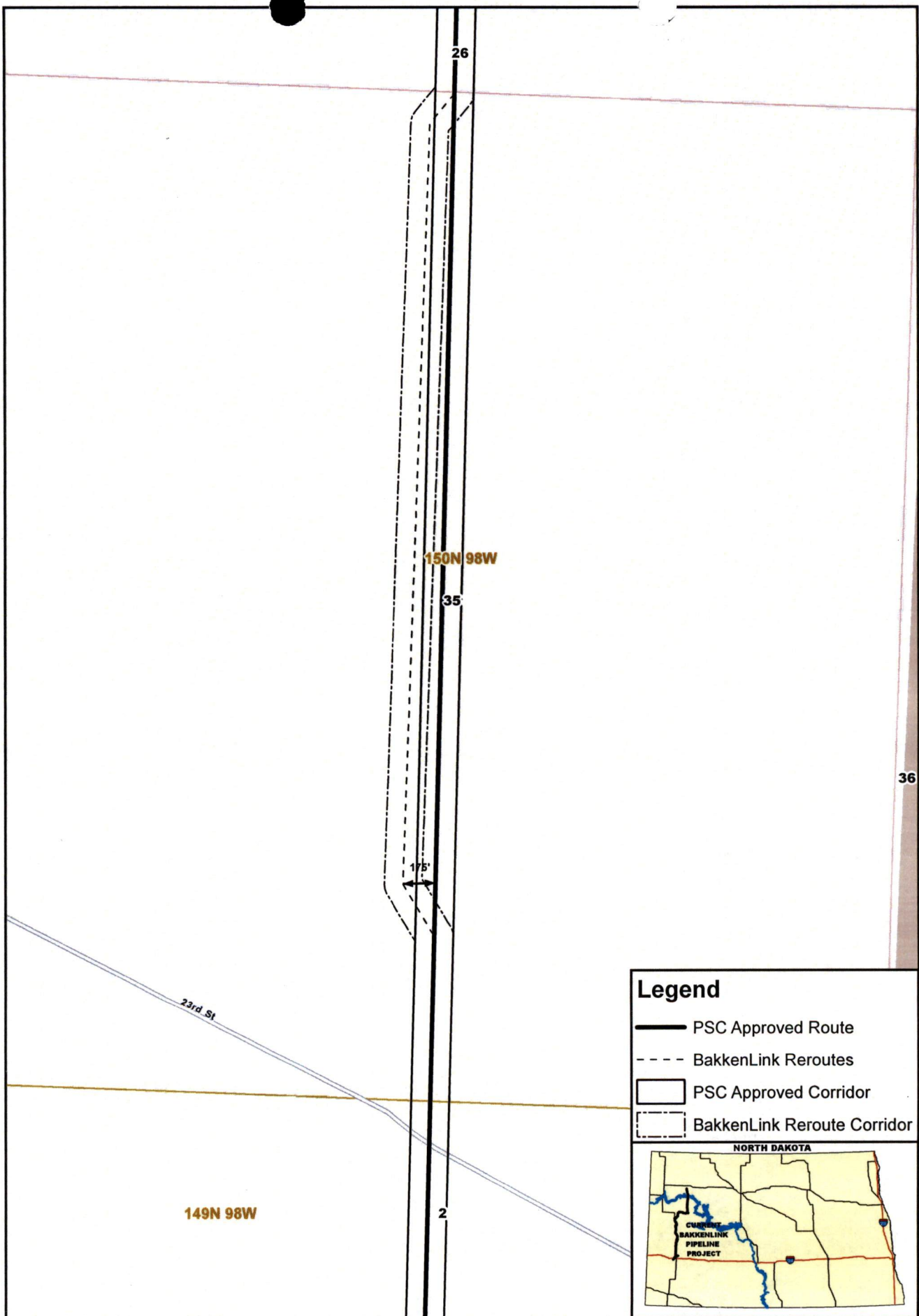
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Basemap: NAIP Orthophoto 2012  
McKenzie County, North Dakota

**BakkenLink Pipeline, LLC**

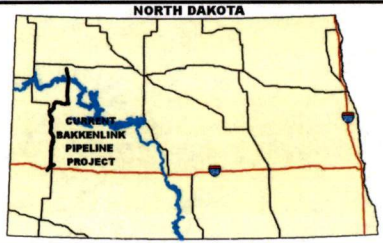
**BakkenLink Pipeline**  
Knapp Reroute  
Sec. 1 T145N R99W

**FIGURE 4**  
**Wetlands and Waterbodies**  
**BakkenLink Reroutes**



**Legend**

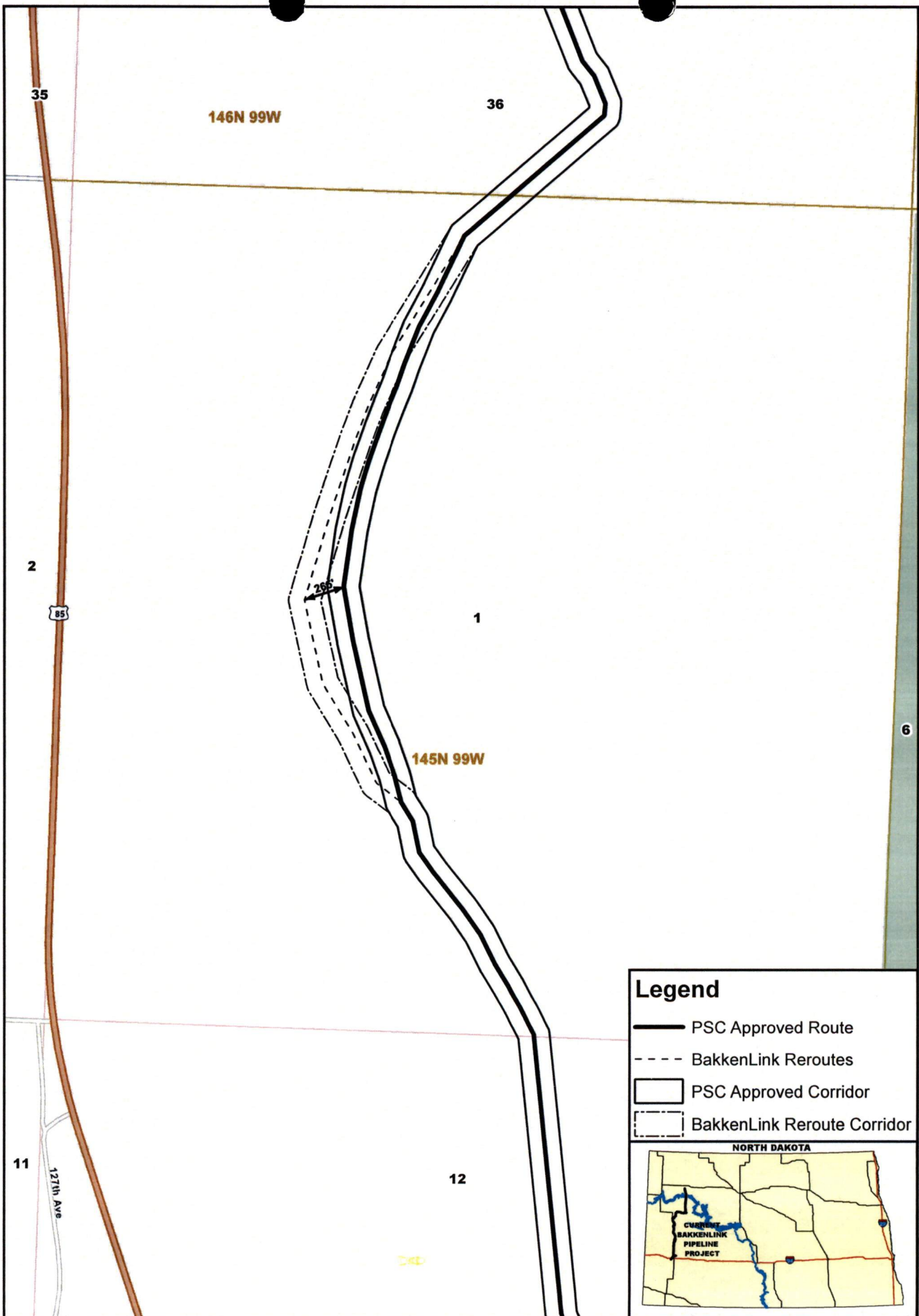
- PSC Approved Route
- BakkenLink Reroutes
- PSC Approved Corridor
- BakkenLink Reroute Corridor



**BAKKENLINK PIPELINE PROJECT  
HOFFMANN REROUTE - LANDOWNER REQUEST  
SECTION 35, T 150N, R 98W**

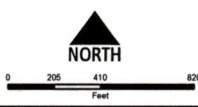
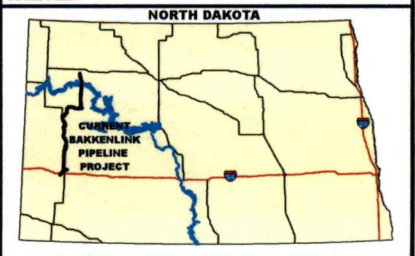
**BakkenLink  
Pipeline LLC**  
**BARTLET & WEST**

ROUTE IS NOT FINAL AND IS SUBJECT TO CHANGE



**Legend**

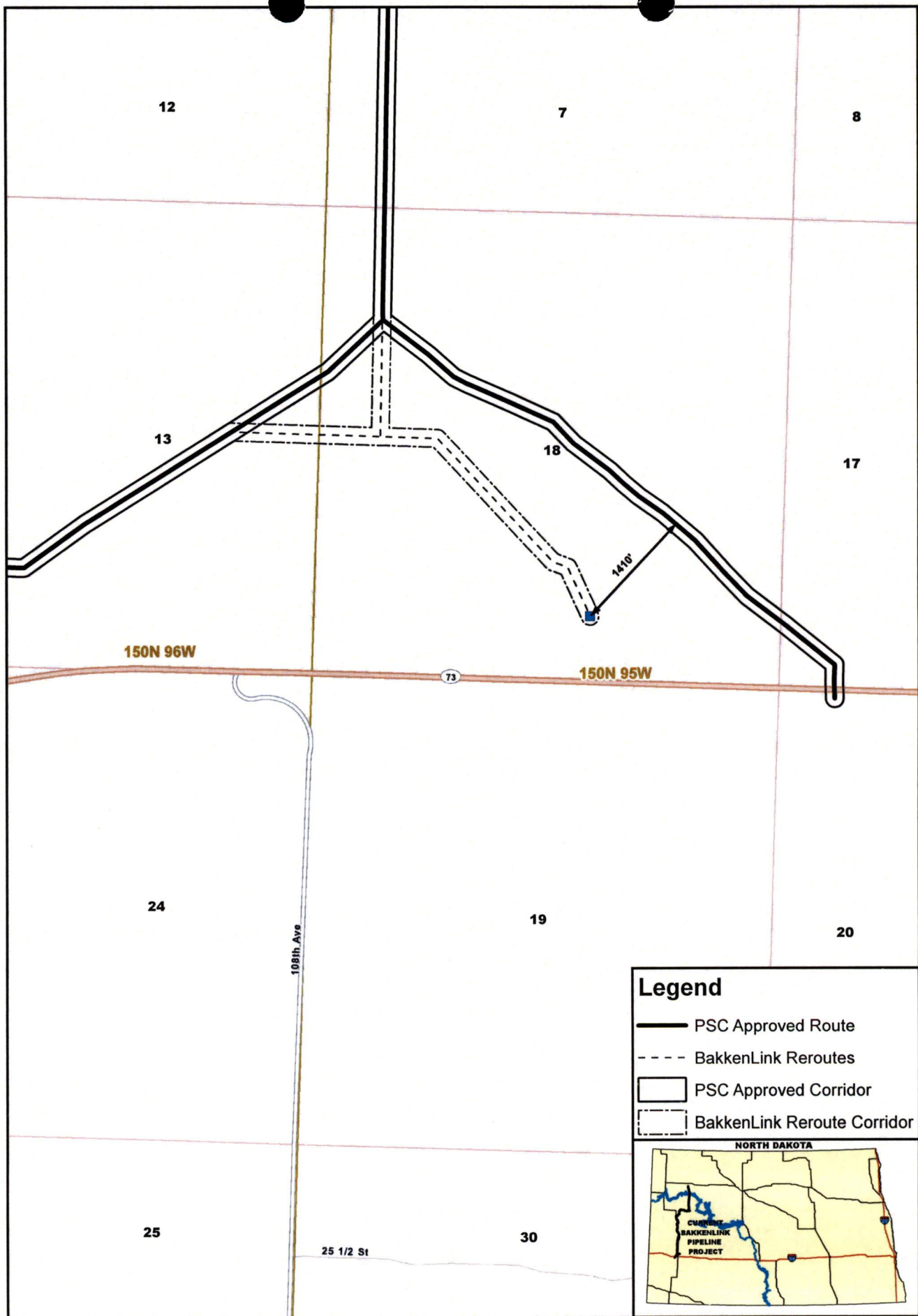
- PSC Approved Route
- BakkenLink Reroutes
- PSC Approved Corridor
- BakkenLink Reroute Corridor



**BAKKENLINK PIPELINE PROJECT  
KNAPP REROUTE - LANDOWNER REQUEST  
SECTION 1, T 145N, R 99W**

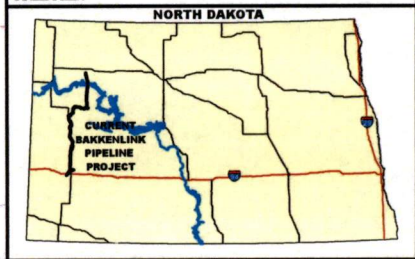
**BakkenLink  
Pipeline LLC**  
**BARTLEY & WEST**

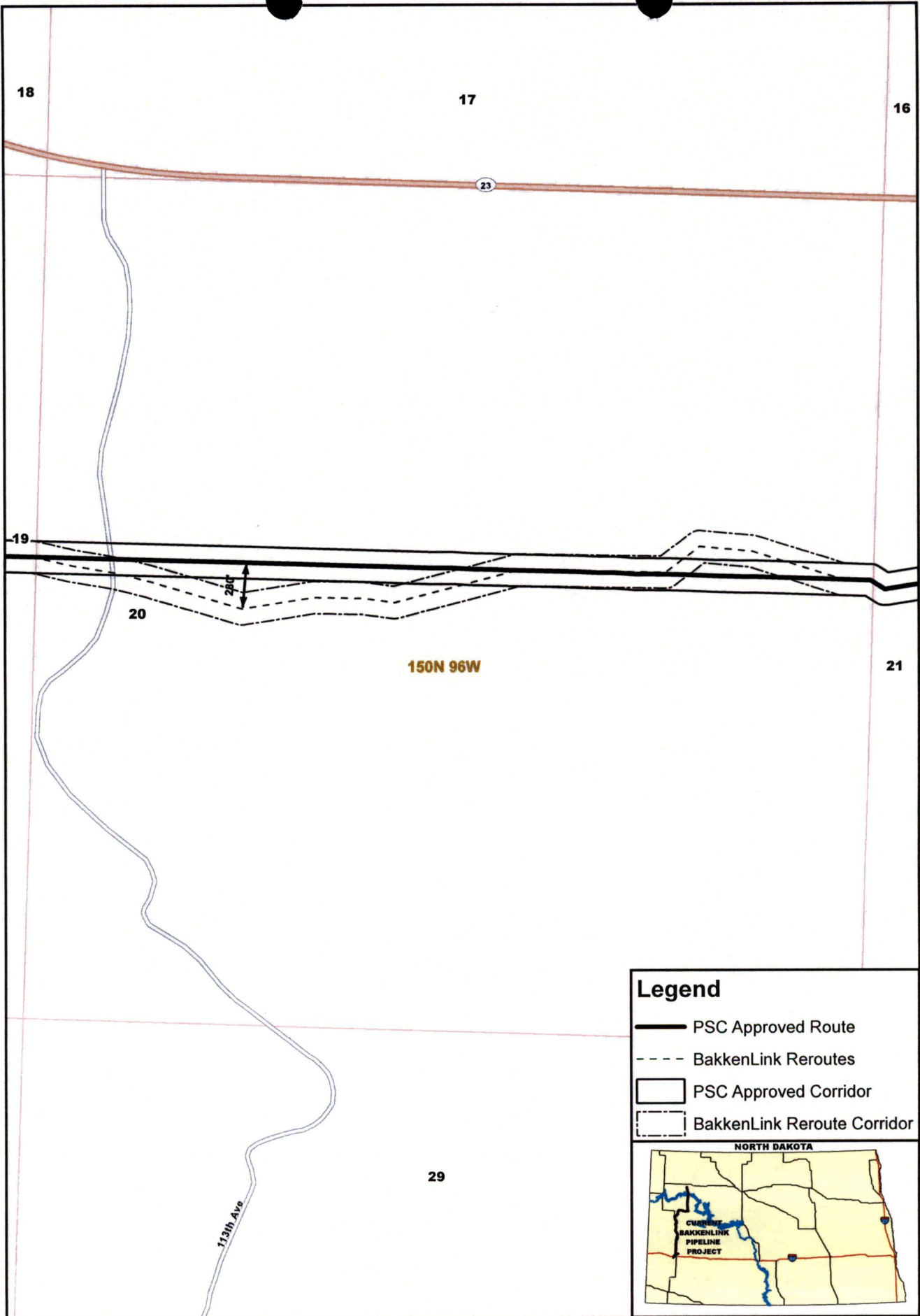
ROUTE IS NOT FINAL AND IS SUBJECT TO CHANGE







**Legend**

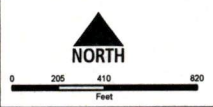
- PSC Approved Route
- BakkenLink Reroutes
- PSC Approved Corridor
- BakkenLink Reroute Corridor





**Legend**

-  PSC Approved Route
-  BakkenLink Reroutes
-  PSC Approved Corridor
-  BakkenLink Reroute Corridor



**BAKKENLINK PIPELINE PROJECT**  
**LILLIBRIDGE REROUTE - LANDOWNER REQUEST**  
**SECTION 20, T 150N, R 96W**  
ROUTE IS NOT FINAL AND IS SUBJECT TO CHANGE

