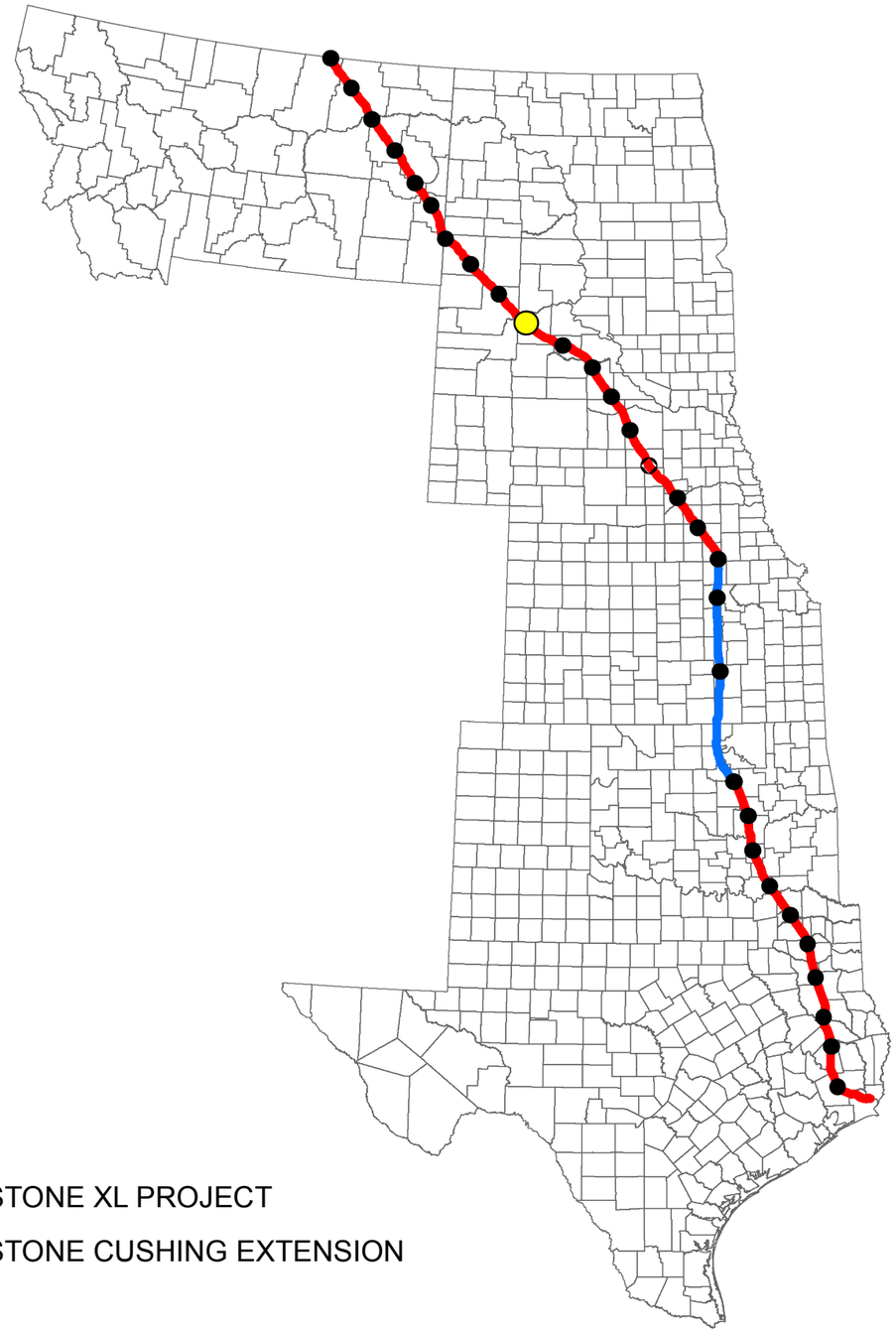

KEYSTONE XL PROJECT

KEYSTONE CUSHING EXTENSION

TransCanada Keystone Pipeline, L.P.
United States Department of State
Keystone XL Project
Appendix B
Powerline Aerial and
USGS Route Sheets
PS-18

TROW ENGINEERING CONSULTANTS, INC.
MAY 19, 2010
REVISION 2

PREPARED BY:
TROW ENGINEERING CONSULTANTS INC.
1300 Metropolitan Boulevard, Suite 200
Tallahassee, Florida , USA 32308
Phone: 1-850-385-5441
Fax: 1-850-385-5523

Trow

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0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

DRAWING NUMBER	DRAWN BY	CHECKED BY	APPROVED BY
XL-FIPS-ML-2003-P-000	AH	SS	RG

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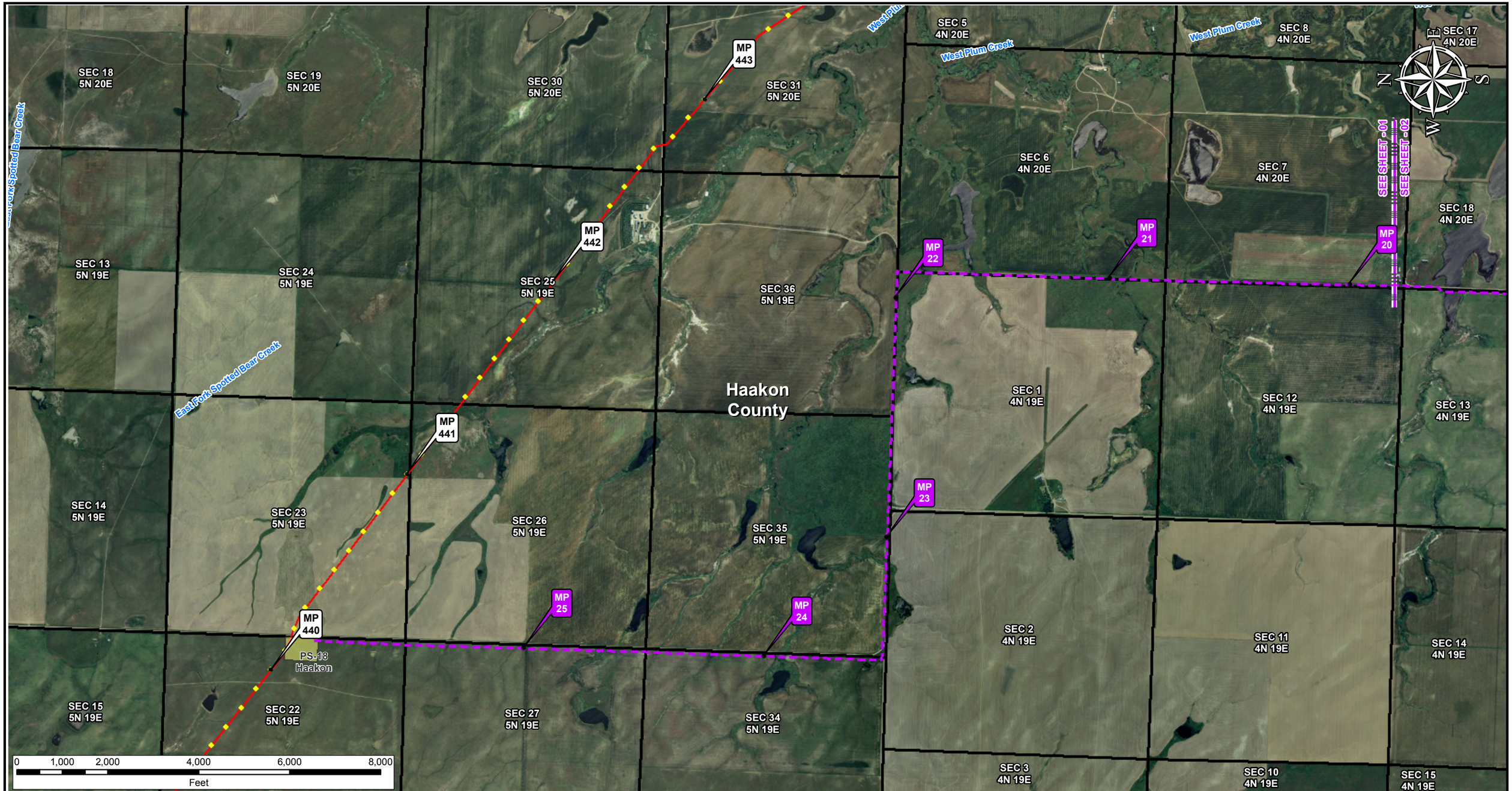
KEYSTONE XL PROJECT
ROUTE SHEETS

MAP PARAMETERS
PROJECTION: NAD83, UTM: 14N
NTS

PROJECT: 50388X

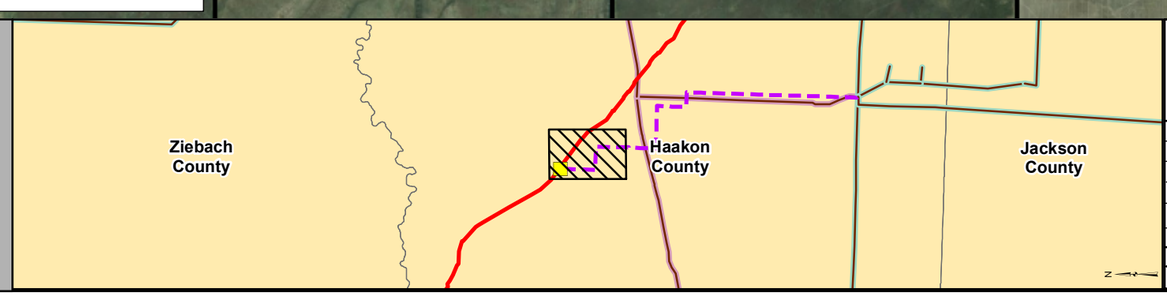
SHEET: COVER SHEET



Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
HAAKON COUNTY, SOUTH DAKOTA
PS-18

MAP PARAMETERS
PROJECTION: NAD83, UTM:14N
SCALE: 1:24000 ; 1"=2000'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 46-ML-2003-P- 18-01 -A	01 of 05	2

SEC 18 5N 20E
SEC 19 5N 20E
SEC 30 5N 20E
SEC 31 5N 20E
SEC 5 4N 20E
SEC 8 4N 20E
SEC 17 4N 20E
SEC 6 4N 20E
SEC 7 4N 20E
SEC 18 4N 20E
SEC 13 5N 19E
SEC 24 5N 19E
SEC 25 5N 19E
SEC 36 5N 19E
SEC 1 4N 19E
SEC 12 4N 19E
SEC 13 4N 19E
SEC 14 5N 19E
SEC 23 5N 19E
SEC 26 5N 19E
SEC 35 5N 19E
SEC 2 4N 19E
SEC 11 4N 19E
SEC 14 4N 19E
SEC 15 5N 19E
SEC 22 5N 19E
SEC 27 5N 19E
SEC 34 5N 19E
SEC 3 4N 19E
SEC 10 4N 19E
SEC 15 4N 19E

MP 443
MP 442
MP 441
MP 440
MP 25
MP 24
MP 23
MP 22
MP 21
MP 20

PS-18 Haakon

SEE SHEET - 01
SEE SHEET - 02

Haakon County

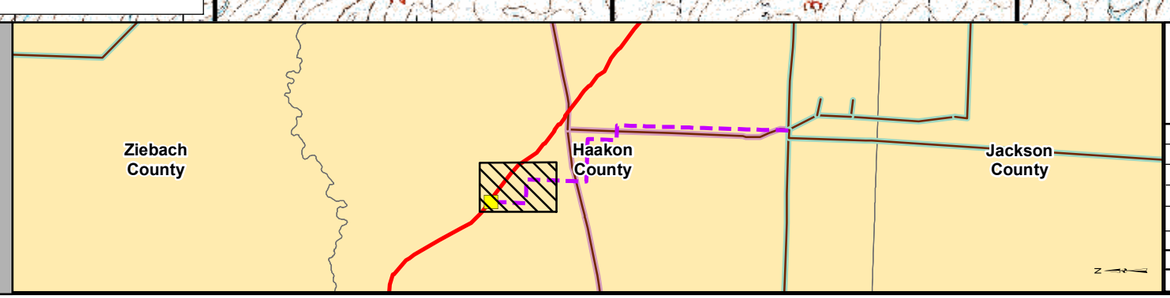
0 1,000 2,000 4,000 6,000 8,000
Feet

N S E W

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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In business to deliver

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
HAAKON COUNTY, SOUTH DAKOTA
PS-18

MAP PARAMETERS
PROJECTION: NAD83, UTM:14N
SCALE: 1:24000 ; 1"=2000'

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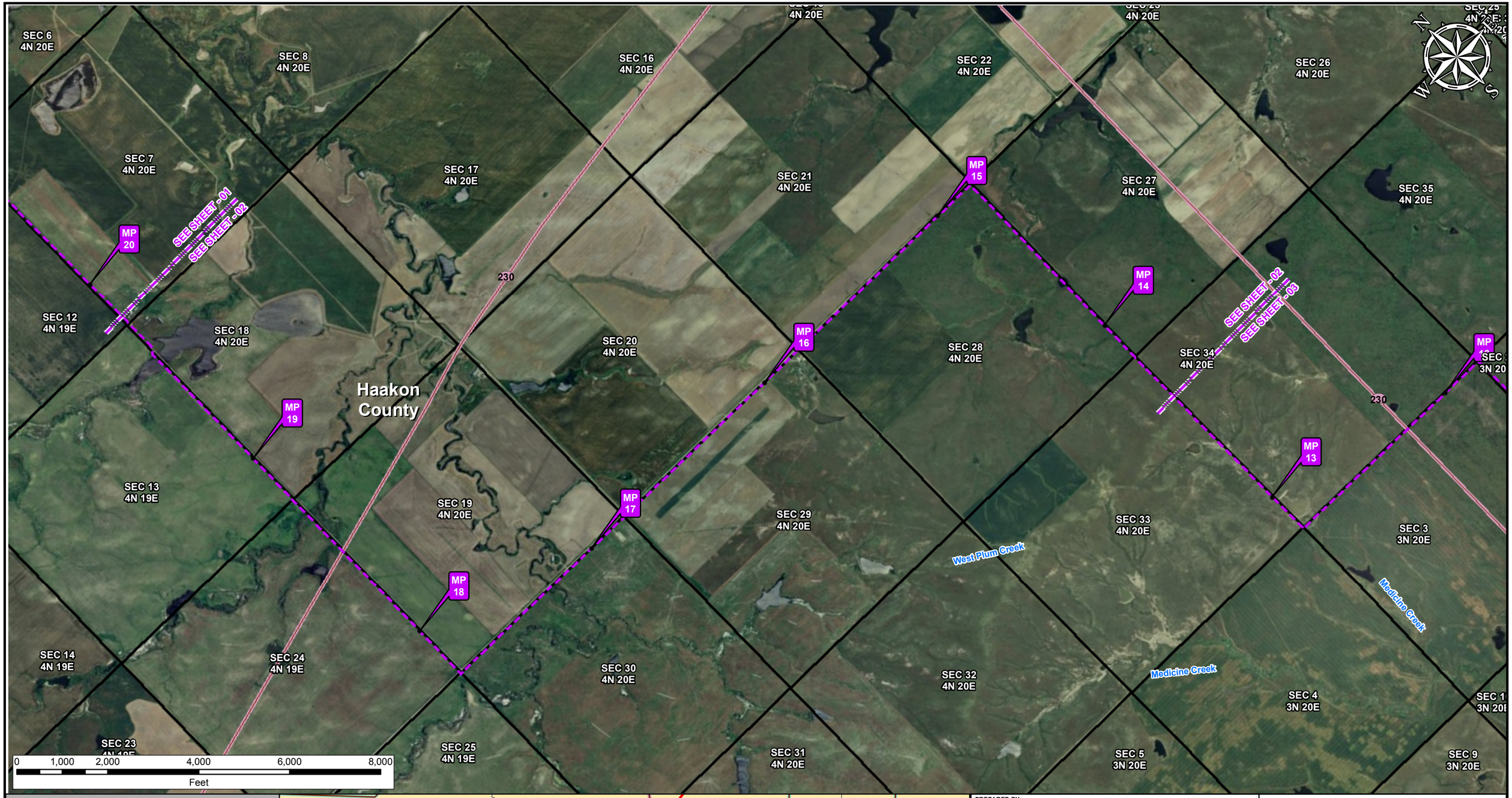
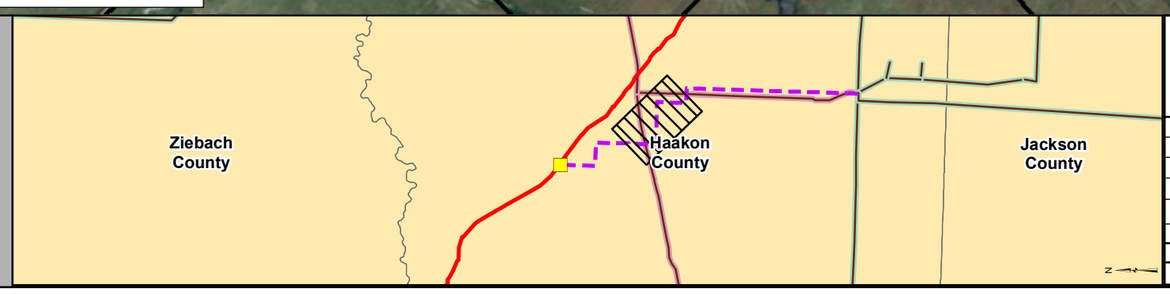


Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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HAAKON COUNTY, SOUTH DAKOTA
PS-18

MAP PARAMETERS
PROJECTION: NAD83, UTM:14N
SCALE: 1:24000 ; 1"=2000'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 46-ML-2003-P- 18-02 -A	02 of 05	2

SEC 6 4N 20E
SEC 8 4N 20E
SEC 16 4N 20E
SEC 22 4N 20E
SEC 26 4N 20E
SEC 7 4N 20E
SEC 17 4N 20E
SEC 21 4N 20E
SEC 27 4N 20E
SEC 35 4N 20E
SEC 12 4N 19E
SEC 18 4N 20E
SEC 20 4N 20E
SEC 28 4N 20E
SEC 34 4N 20E
SEC 13 4N 19E
SEC 19 4N 20E
SEC 29 4N 20E
SEC 33 4N 20E
SEC 3 3N 20E
SEC 14 4N 19E
SEC 24 4N 19E
SEC 30 4N 20E
SEC 32 4N 20E
SEC 4 3N 20E
SEC 25 4N 19E
SEC 31 4N 20E
SEC 5 3N 20E
SEC 9 3N 20E

MP 20
MP 19
MP 18
MP 17
MP 16
MP 15
MP 14
MP 13

SEE SHEET - 01
SEE SHEET - 02
SEE SHEET - 03

Haakon County

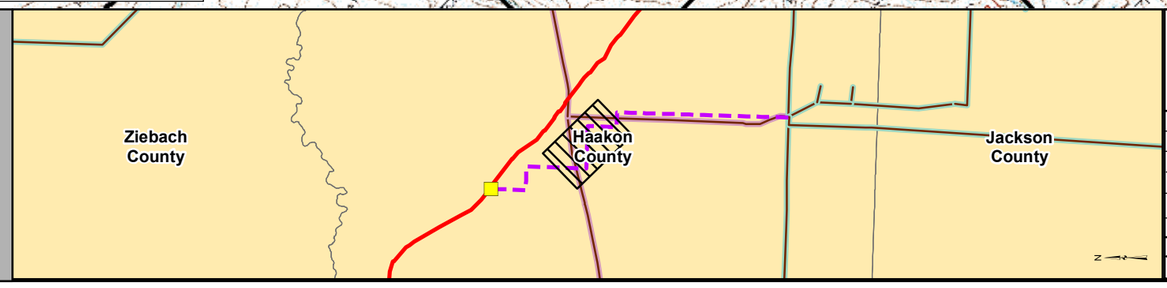
230

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
HAAKON COUNTY, SOUTH DAKOTA
PS-18

MAP PARAMETERS
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SCALE: 1:24000 ; 1"=2000'

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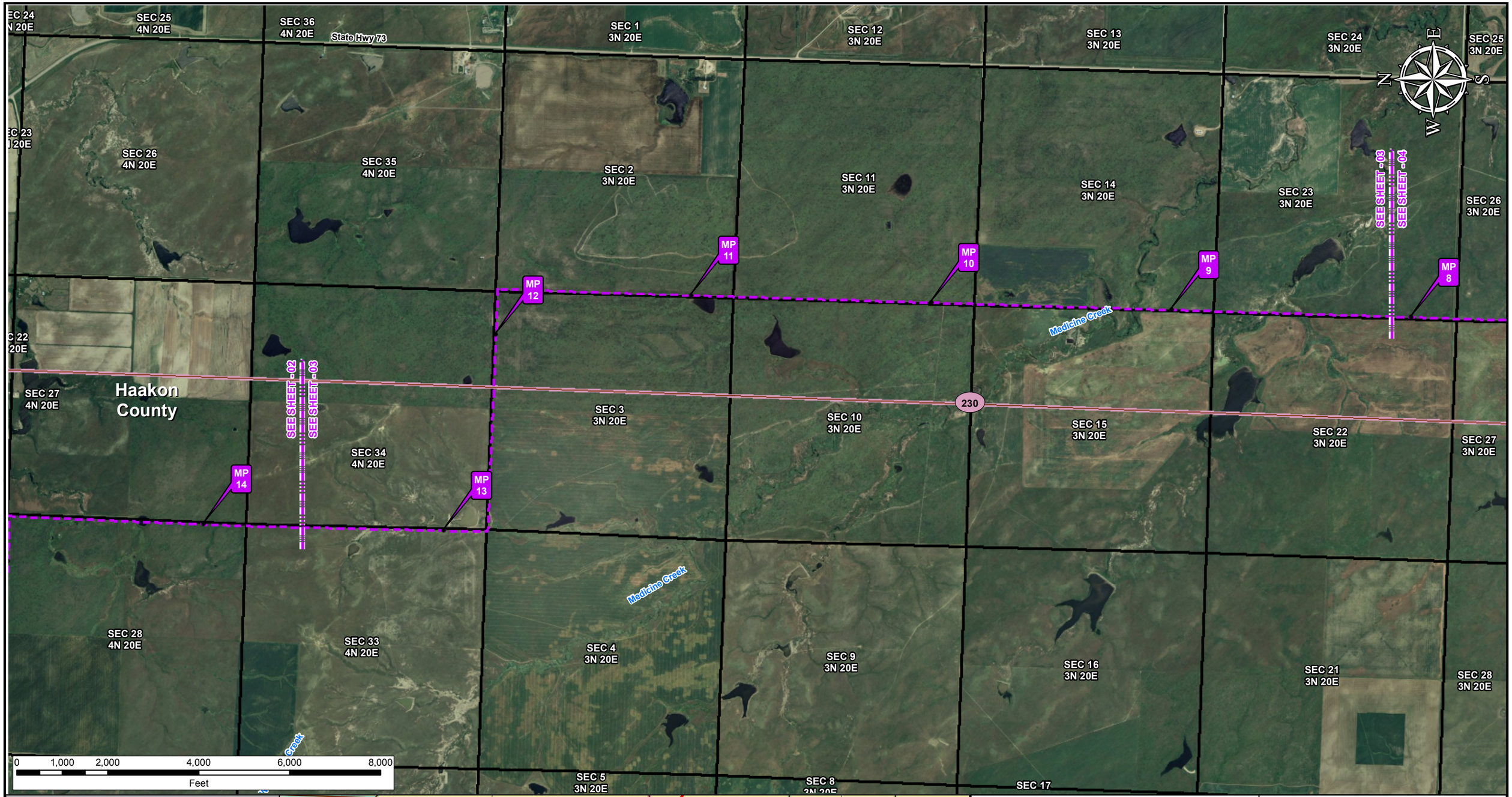
AH	SS	RG	50388X	XL- 46-ML-2003-P- 18-02 -Q	02 of 05	2

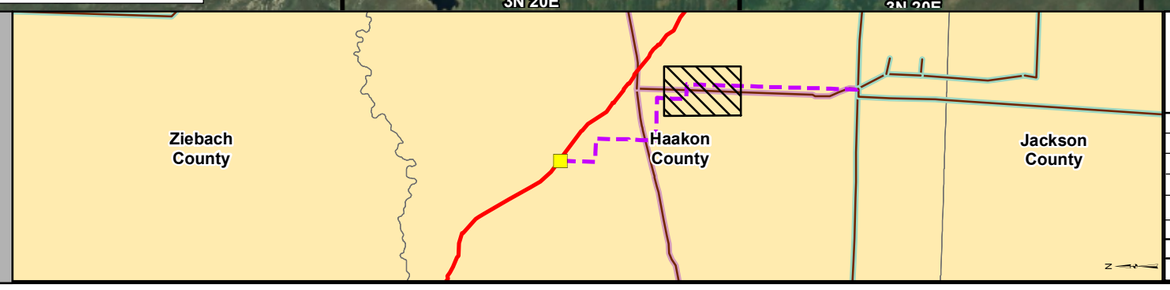


Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage

- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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KEYSTONE XL PROJECT
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HAAKON COUNTY, SOUTH DAKOTA
PS-18

MAP PARAMETERS
PROJECTION: NAD83, UTM:14N
SCALE: 1:24000 ; 1"=2000'

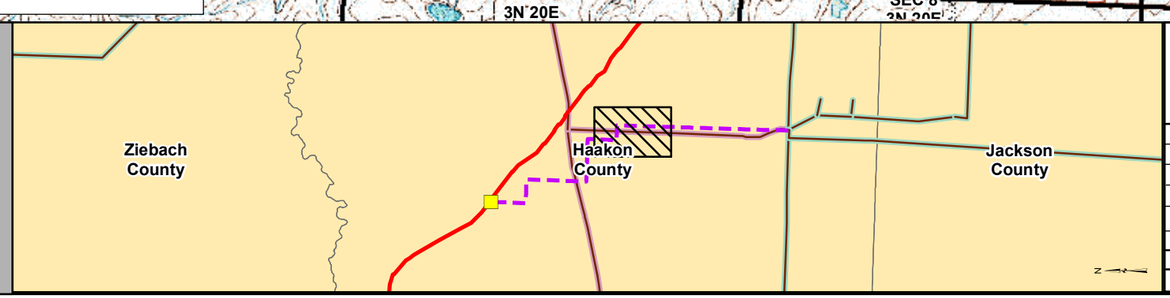
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL-46-ML-2003-P-18-03-A	03 of 05	2

SEC 24 N 20E
SEC 25 4N 20E
SEC 36 4N 20E
SEC 1 3N 20E
SEC 12 3N 20E
SEC 13 3N 20E
SEC 24 3N 20E
SEC 25 3N 20E
SEC 23 I 20E
SEC 26 4N 20E
SEC 35 4N 20E
SEC 2 3N 20E
SEC 11 3N 20E
SEC 14 3N 20E
SEC 23 3N 20E
SEC 26 3N 20E
SEE SHEET - 03
SEE SHEET - 04
Pearson Ranch
MP 11
MP 10
MP 9
MP 8
MP 12
C 22 20E
SEC 27 4N 20E
Haakon County
SEE SHEET - 02
SEE SHEET - 03
230
SEC 3 3N 20E
SEC 10 3N 20E
SEC 15 3N 20E
SEC 22 3N 20E
SEC 27 3N 20E
SEC 34 4N 20E
MP 14
MP 13
SEC 28 4N 20E
SEC 33 4N 20E
SEC 4 3N 20E
SEC 9 3N 20E
SEC 16 3N 20E
SEC 21 3N 20E
SEC 28 3N 20E
Kyle Ranch
0 1,000 2,000 4,000 6,000 8,000
Feet
SEC 5 3N 20E
SEC 8 3N 20E
SEC 17

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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HAAKON COUNTY, SOUTH DAKOTA
PS-18

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AH	SS	RG	50388X	XL- 46-ML-2003-P- 18-03 -Q	03 of 05	2

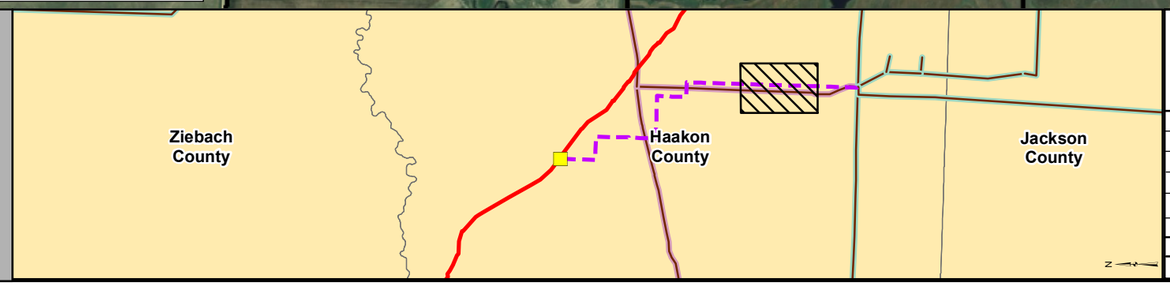
SEC 24 3N 20E
SEC 25 3N 20E
SEC 36 3N 20E
SEC 1 2N 20E
SEC 12 2N 20E
SEC 13 2N 20E
Medicine Creek
Medicine Creek
Wilburn Creek
State Hwy 73
N
E
S
W
SEE SHEET - 03
SEE SHEET - 04
SEE SHEET - 04
SEE SHEET - 05
SEC 23 3N 20E
SEC 26 3N 20E
SEC 35 3N 20E
SEC 2 2N 20E
SEC 11 2N 20E
SEC 14 2N 20E
SEC 23 2N 20E
MP 8
MP 7
MP 6
MP 5
MP 4
MP 3
Haakon County
SEC 22 3N 20E
SEC 27 3N 20E
SEC 34 3N 20E
SEC 3 2N 20E
SEC 10 2N 20E
230
SEC 15 2N 20E
SEC 22 2N 20E
Grindstone Creek
SEC 21 3N 20E
SEC 28 3N 20E
SEC 33 3N 20E
SEC 4 2N 20E
Grindstone Creek
SEC 9 2N 20E
SEC 16 2N 20E
SEC 21 2N 20E

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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HAAKON COUNTY, SOUTH DAKOTA
PS-18

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SEC 24 3N 20E
SEC 25 3N 20E
SEC 36 3N 20E
SEC 1 2N 20E
SEC 12 2N 20E
SEC 13 2N 20E
SEC 23 3N 20E
SEC 26 3N 20E
SEC 35 3N 20E
SEC 2 2N 20E
SEC 11 2N 20E
SEC 14 2N 20E
SEC 23 2N 20E
SEC 22 3N 20E
SEC 27 3N 20E
SEC 34 3N 20E
SEC 3 2N 20E
SEC 10 2N 20E
SEC 15 2N 20E
SEC 22 2N 20E
SEC 21 3N 20E
SEC 28 3N 20E
SEC 33 3N 20E
SEC 4 2N 20E
SEC 9 2N 20E
SEC 16 2N 20E
SEC 21 2N 20E

Haakon County

Thermilo Corner

Cedar Creek Ranch

Cedar Creek

Willow Creek

SEE SHEET 03
SEE SHEET 04
SEE SHEET 04
SEE SHEET 05

MP 8
MP 7
MP 6
MP 5
MP 4
MP 3

230

N E S W

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
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- 345kV - 499kV
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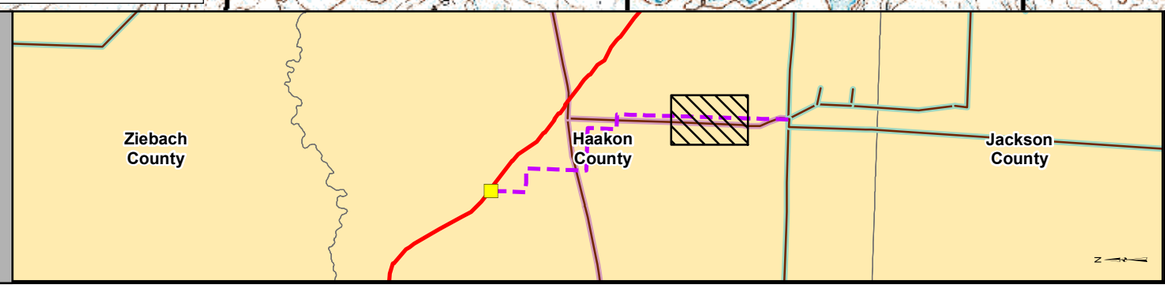
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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HAAKON COUNTY, SOUTH DAKOTA
PS-18

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SEC 12 2N 20E
SEC 13 2N 20E
SEC 24 2N 20E
SEC 25 2N 20E
SEC 36 2N 20E
SEC 1 1N 20E
State Hwy 73
Grindstone Creek
SEC 11 2N 20E
SEC 14 2N 20E
SEE SHEET - 04
SEE SHEET - 05
SEC 23 2N 20E
SEC 26 2N 20E
Grindstone Creek
SEC 35 2N 20E
SEC 2 1N 20E
69kV
SEC 11 1N 20E
MP 4
MP 3
MP 2
MP 1
MP 0
Haakon County
SEC 10 2N 20E
SEC 15 2N 20E
SEC 22 2N 20E
230
SEC 27 2N 20E
SEC 34 2N 20E
SEC 3 1N 20E
115kV
SEC 10 1N 20E
SEC 9 2N 20E
SEC 16 2N 20E
SEC 21 2N 20E
SEC 28 2N 20E
SEC 33 2N 20E
SEC 4 1N 20E
SEC 9 1N 20E
Mexican Creek
N E S W
0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
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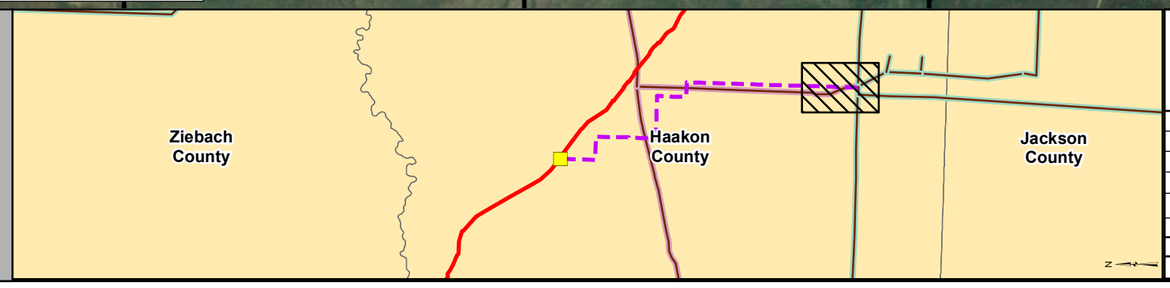
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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HAAKON COUNTY, SOUTH DAKOTA
PS-18

MAP PARAMETERS
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SCALE: 1:24000 ; 1"=2000'

SEC 12
2N 20E

SEC 13
2N 20E

SEC 24
2N 20E

SEC 25
2N 20E

SEC 36
2N 20E

SEC 1
1N 20E

SEC 11
2N 20E

SEC 14
2N 20E

SEE SHEET 04

SEE SHEET 05

SEC 23
2N 20E

SEC 26
2N 20E

SEC 35
2N 20E

SEC 2
1N 20E

SEC 11
1N 20E

69kV

MP 4

MP 3

MP 2

MP 1

MP 0

Haakon
County

SEC 10
2N 20E

SEC 15
2N 20E

SEC 22
2N 20E

230

SEC 27
2N 20E

SEC 34
2N 20E

SEC 3
1N 20E

115kV

SEC 10
1N 20E

SEC 9
2N 20E

SEC 16
2N 20E

SEC 21
2N 20E

SEC 28
2N 20E

SEC 33
2N 20E

SEC 4
1N 20E

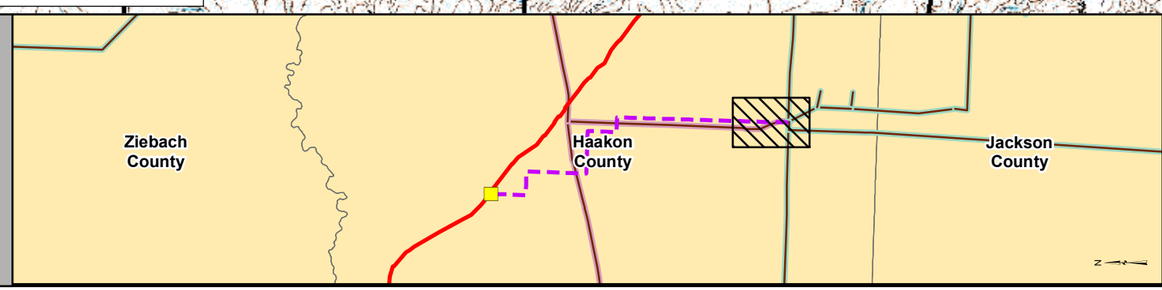
SEC 9
1N 20E

0 1,000 2,000 4,000 6,000 8,000
Feet

Legend

- Milepost
- Keystone XL Project
- Transmission Supply Line Route
- Pump Station
- County Line
- Section Line

Electric Lines
Voltage
- Below 230kV
- 230kV - 344kV
- 345kV - 499kV
- 500kV - 734kV
- 735kV - 999kV
- AC-DC-AC Tie
- DC



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TransCanada
In business to deliver

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
HAAKON COUNTY, SOUTH DAKOTA
PS-18

MAP PARAMETERS
PROJECTION: NAD83, UTM:14N
SCALE: 1:24000 ; 1"=2000'

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 46-ML-2003-P- 18-05 -Q	05 of 05	2