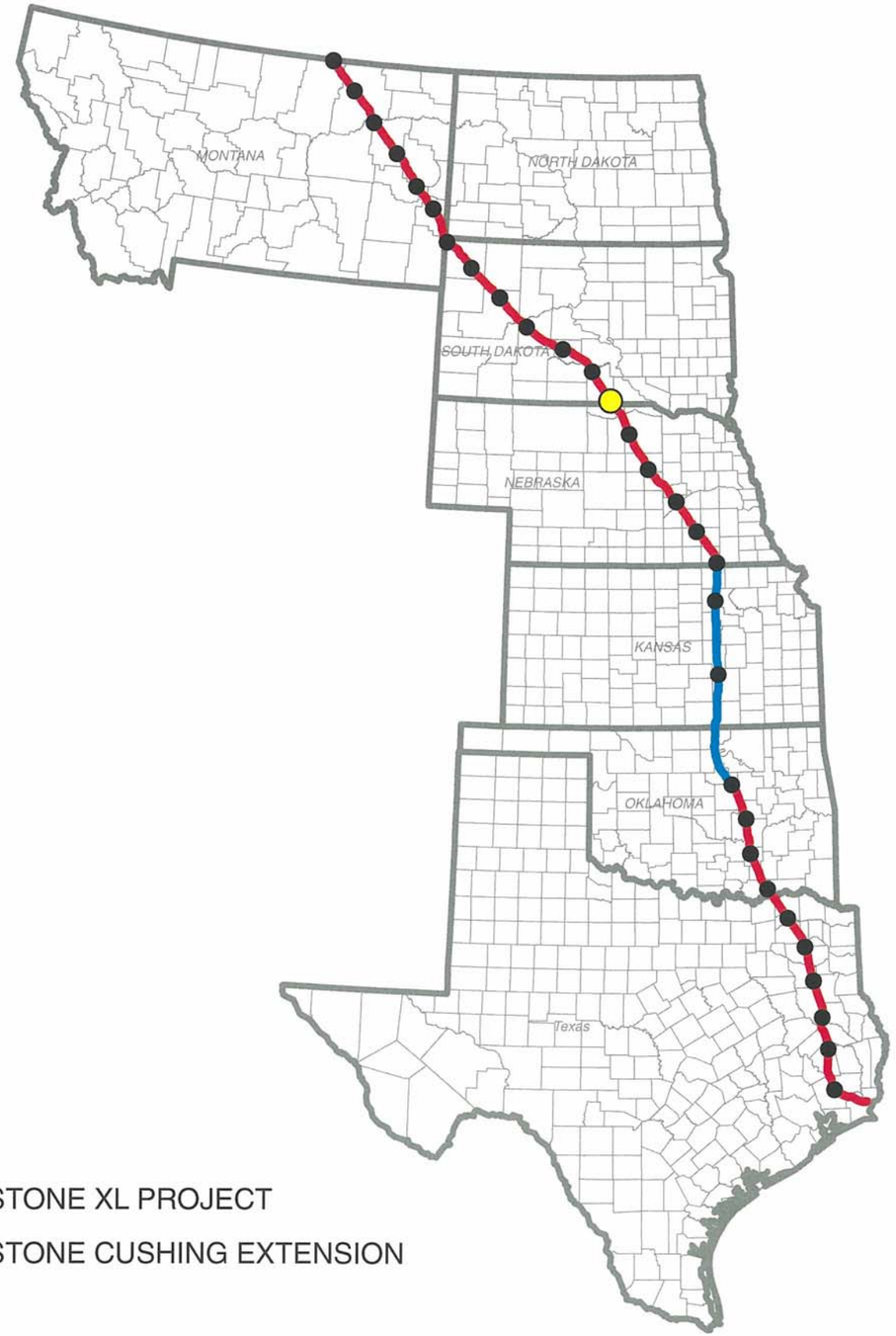


KEYSTONE XL PROJECT

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-21

2/15/09 CENTERLINE

TROW ENGINEERING CONSULTANTS, INC.
JULY 6, 2009
REVISION 1

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

ConocoPhillips | TransCanada *In business to deliver*

NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (2.15.09 CL)	7.6.09
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	GS	SS	RG

KEYSTONE XL PROJECT
ROUTE SHEETS

MAP PARAMETERS
PROJECTION: NAD83, UTM: 14N
NTS

PROJECT: 50388X

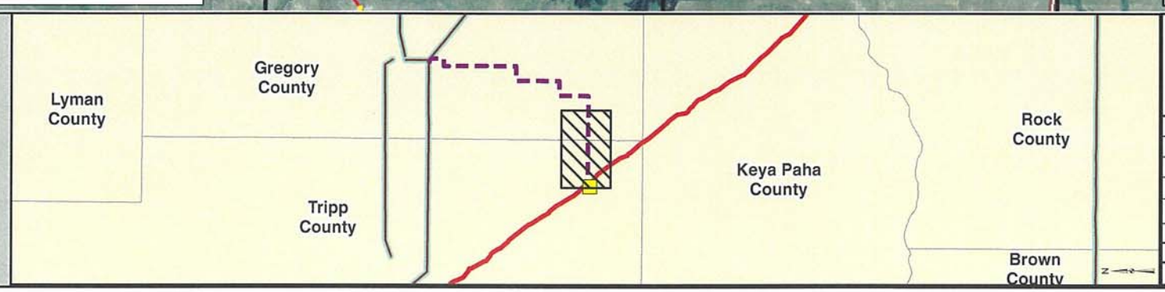
SHEET: COVER SHEET

Lute Creek
330th Ave
Viaduct Rd
Buffalo Creek
299th St
CR 11
SEC 4 95N 74W
SEC 3 95N 74W
SEC 2 95N 74W
SEC 1 95N 74W
SEC 6 95N 73W
SEC 5 95N 73W
N
W
E
S
MP 591
SEC 9 95N 74W
SEC 10 95N 74W
SEC 11 95N 74W
SEC 12 95N 74W
SEC 7 95N 73W
SEC 8 95N 73W
SEE SHEET - 01
SEE SHEET - 02
SEC 9 95N 73W
Tripp County
Gregory County
300th St
PS-21 Colome
MP 20
MP 592
MP 19
MP 18
MP 17
MP 16
MP 15
SEC 16 95N 74W
SEC 15 95N 74W
SEC 14 95N 74W
SEC 13 95N 74W
SEC 18 95N 73W
SEC 17 95N 73W
SEC 16 95N 73W
MP 593
331st Ave
301st St
SEC 23 95N 74W
SEC 21 95N 74W
SEC 22 95N 74W
SEC 24 95N 74W
SEC 19 95N 73W
SEC 20 95N 73W
SEC 21 95N 73W
0 1,000 2,000 4,000 6,000 8,000
Feet
2/15/09 CENTERLINE
2008 AERIALS

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



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

NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (2.15.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

ConocoPhillips
TransCanada
In business to deliver

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
TRIPP COUNTY, SOUTH DAKOTA
PS-21

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- 21-01 -A	01 of 03	1

SEC 4 95N 74W
SEC 3 95N 74W
SEC 2 95N 74W
SEC 1 95N 74W
SEC 6 95N 73W
SEC 5 95N 73W
SEC 9 95N 74W
SEC 10 95N 74W
SEC 11 95N 74W
SEC 12 95N 74W
SEC 7 95N 73W
SEC 8 95N 73W
SEC 9 95N 73W
SEC 16 95N 74W
SEC 15 95N 74W
SEC 14 95N 74W
SEC 13 95N 74W
SEC 18 95N 73W
SEC 17 95N 73W
SEC 16 95N 73W
SEC 21 95N 74W
SEC 22 95N 74W
SEC 23 95N 74W
SEC 24 95N 74W
SEC 19 95N 73W
SEC 20 95N 73W
SEC 21 95N 73W

Paxton Ch
Sioux Valley Sch
Buffalo Creek
Tripp County
Gregory County
PS-21 Colome
MP 591
MP 592
MP 593
MP 20
MP 19
MP 18
MP 17
MP 16
MP 15
SEE SHEET - 01
SEE SHEET - 02
V A L L E Y
C A R L O C K

N W E S

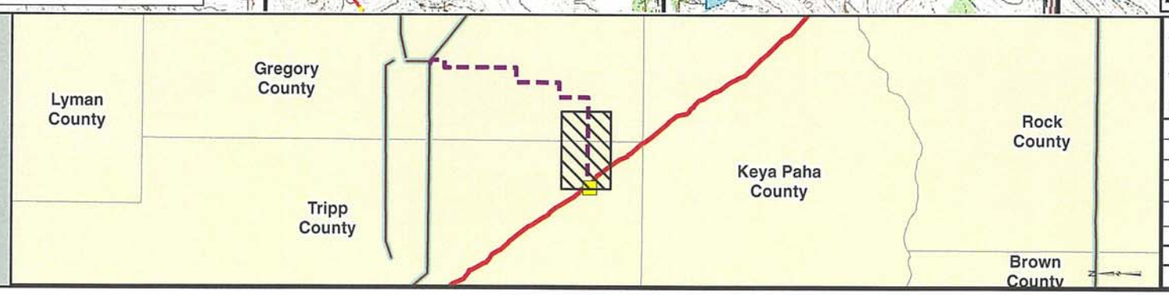
0 1,000 2,000 4,000 6,000 8,000
Feet

2/15/09 CENTERLINE

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



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

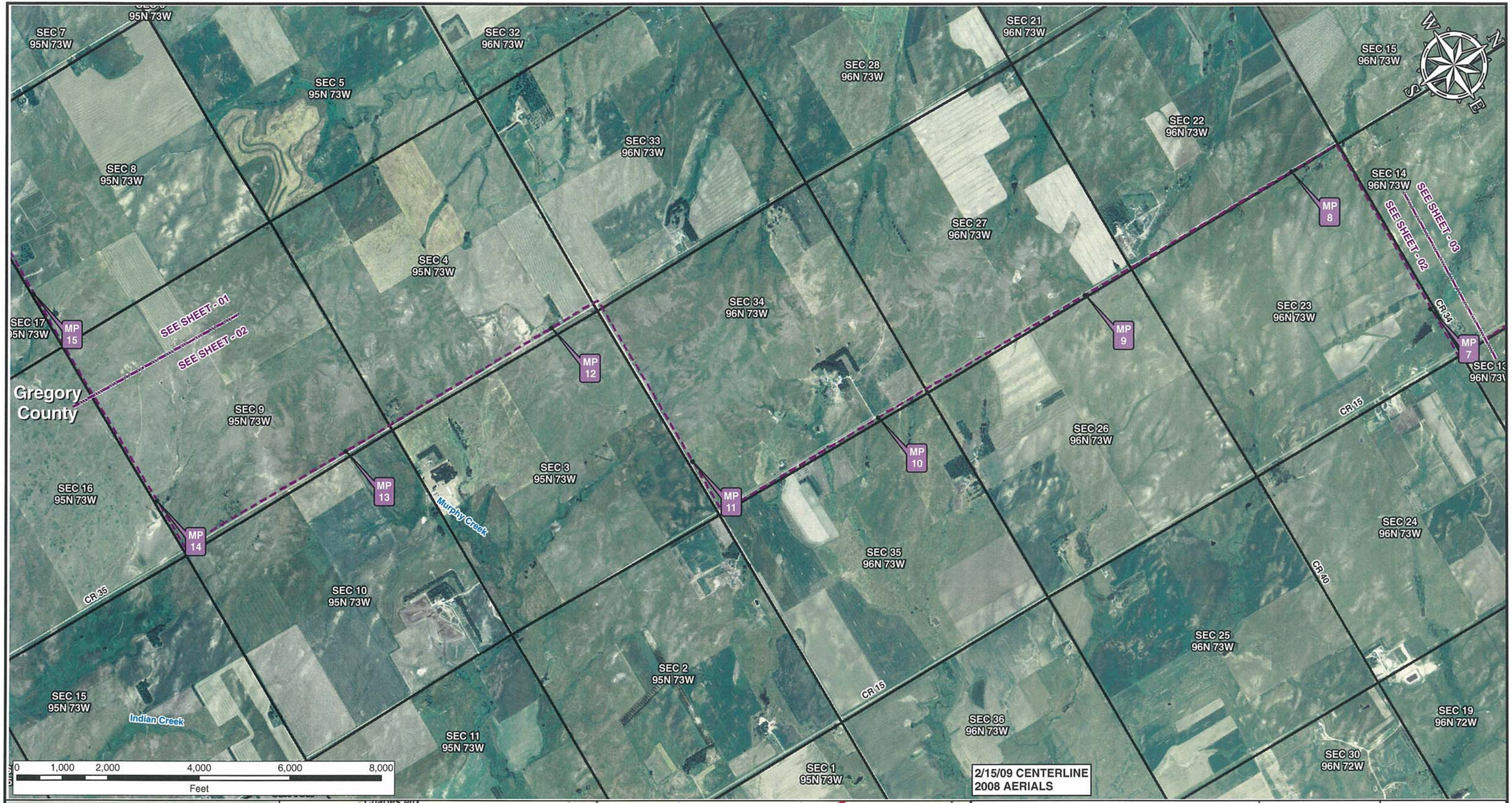
ConocoPhillips | TransCanada — In business to deliver

NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (2.15.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
TRIPP COUNTY, SOUTH DAKOTA
PS-21

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

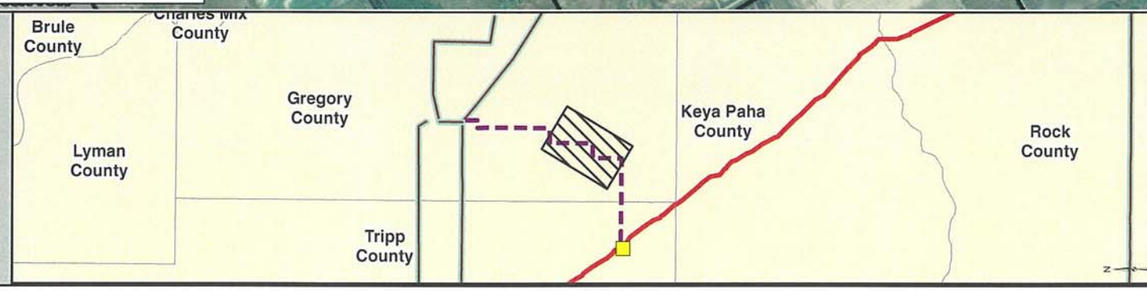
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 46-ML-2003-P- 21-01 -Q	01 of 03	1



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



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

NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (2.15.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

ConocoPhillips | TransCanada — In business to deliver

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
TRIPP COUNTY, SOUTH DAKOTA
PS-21

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

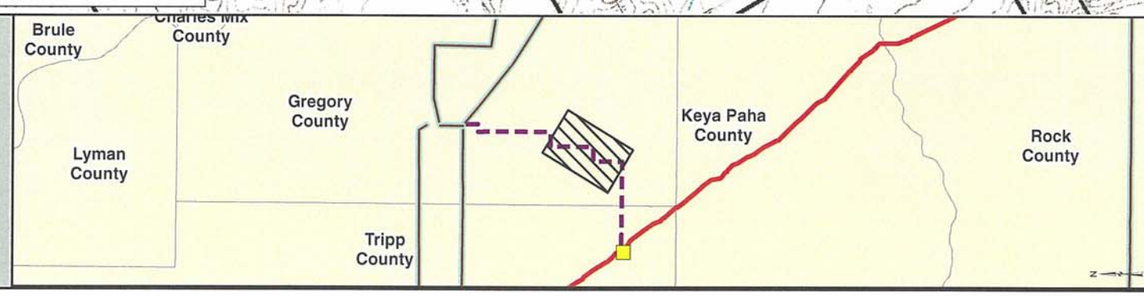
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL-46-ML-2003-P-21-02-A	02 of 03	1

SEC 17 95N 73W
95N 73W
SEC 32 96N 73W
SEC 21 96N 73W
SEC 15 96N 73W
SEC 5 95N 73W
SEC 28 96N 73W
SEC 22 96N 73W
SEC 33 96N 73W
SEC 8 95N 73W
SEC 14 96N 73W
SEE SHEET - 03
SEE SHEET - 02
MP 8
SEC 27 96N 73W
SEC 4 95N 73W
SEC 34 96N 73W
SEC 23 96N 73W
SEC 17 95N 73W
MP 15
SEE SHEET - 01
SEE SHEET - 02
MP 12
MP 9
MP 7
SEC 13 96N 73W
Gregory County
SEC 9 95N 73W
SEC 26 96N 73W
MP 13
SEC 3 95N 73W
MP 10
MP 11
SEC 16 95N 73W
MP 14
SEC 24 96N 73W
SEC 35 96N 73W
SEC 10 95N 73W
SEC 25 96N 73W
SEC 2 95N 73W
SEC 15 95N 73W
SEC 19 96N 72W
SEC 36 96N 73W
SEC 11 95N 73W
SEC 30 96N 72W
SEC 1 95N 73W
0 1,000 2,000 4,000 6,000 8,000
Feet
2/15/09 CENTERLINE

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



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

NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (2.15.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

ConocoPhillips
TransCanada
In business to deliver

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
TRIPP COUNTY, SOUTH DAKOTA
PS-21

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

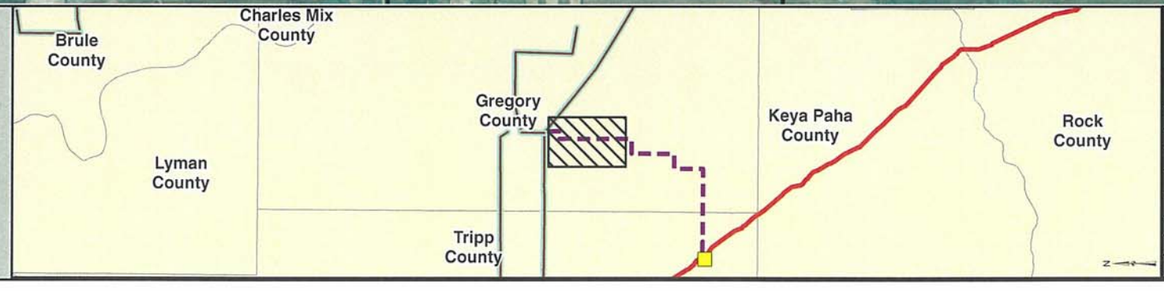
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL- 46-ML-2003-P- 21-02 -Q	02 of 03	1

SEC 22 N 73W
SEC 15 96N 73W
SEC 10 96N 73W
SEC 3 96N 73W
SEC 34 97N 73W
SEC 27 97N 73W
SEC 22 97N 73W
SEC 15 97N 73W
W
S
E
N
Gregory Hwy
SEC 23 N 73W
SEE SHEET - 02
SEE SHEET - 03
SEC 14 96N 73W
SEC 11 96N 73W
SEC 2 96N 73W
CR 9a
SEC 35 97N 73W
SEC 26 97N 73W
SEC 23 97N 73W
SEC 14 97N 73W
Ponca Creek
CR 15
MP 7
Gregory County
MP 6
MP 5
MP 4
MP 3
MP 2
115kV
MP 1
SEC 24 N 73W
SEC 13 96N 73W
SEC 12 96N 73W
SEC 1 96N 73W
SEC 36 97N 73W
SEC 25 97N 73W
SEC 24 97N 73W
SEC 13 97N 73W
CR 34
CR 9a
SEC 19 N 72W
SEC 18 96N 72W
SEC 7 96N 72W
SEC 6 96N 72W
SEC 31 97N 72W
SEC 30 97N 72W
SEC 19 97N 72W
SEC 18 97N 72W
0 1,000 2,000 4,000 6,000 8,000
Feet
2/15/09 CENTERLINE
2008 AERIALS

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



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

ConocoPhillips | TransCanada — In business to deliver

NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (2.15.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
TRIPP COUNTY, SOUTH DAKOTA
PS-21

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

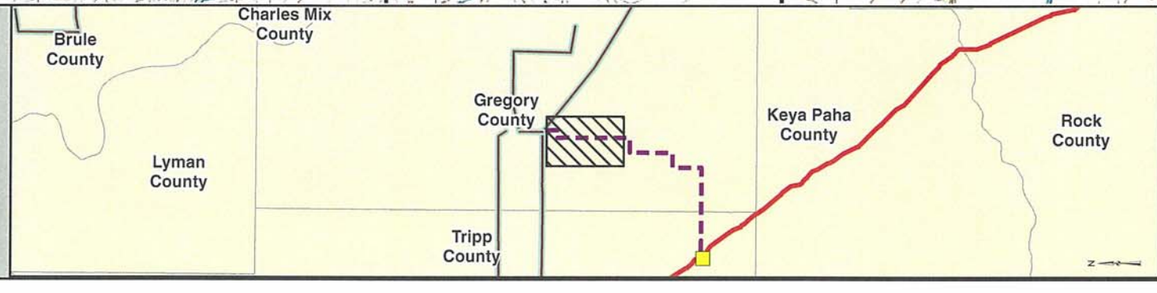
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT:	DRAWING NUMBER	SHEET	REV.
AH	SS	RG	50388X	XL-46-ML-2003-P-21-03-A	03 of 03	1

SEC 22
N 73W
SEC 15
96N 73W
SEC 10
96N 73W
SEC 3
96N 73W
SEC 34
97N 73W
SEC 27
97N 73W
SEC 22
97N 73W
SEC 15
97N 73W
SEC 23
N 73W
SEE SHEET - 02
SEE SHEET - 03
SEC 14
96N 73W
SEC 11
96N 73W
SEC 2
96N 73W
SEC 35
97N 73W
SEC 26
97N 73W
SEC 23
97N 73W
SEC 14
97N 73W
MP 7
MP 6
MP 5
MP 4
MP 3
MP 2
MP 1
Gregory
County
SEC 24
N 73W
SEC 13
96N 73W
SEC 12
96N 73W
SEC 1
96N 73W
SEC 36
97N 73W
SEC 25
97N 73W
SEC 24
97N 73W
115kV
SEC 13
97N 73W
SEC 19
N 72W
SEC 18
96N 72W
SEC 7
96N 72W
SEC 6
96N 72W
SEC 31
97N 72W
SEC 30
97N 72W
SEC 19
97N 72W
SEC 18
97N 72W
0 1,000 2,000 4,000 6,000 8,000
Feet
2/15/09 CENTERLINE

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



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

ConocoPhillips | TransCanada — In business to deliver

NO.	REVISION	DATE
1	ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (2.15.09 CL)	7.6.09
0	ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL)	11.19.08

KEYSTONE XL PROJECT
TRANSMISSION SUPPLY LINE ROUTE MAP
TRIPP COUNTY, SOUTH DAKOTA
PS-21

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- 21-03 -Q	03 of 03	1