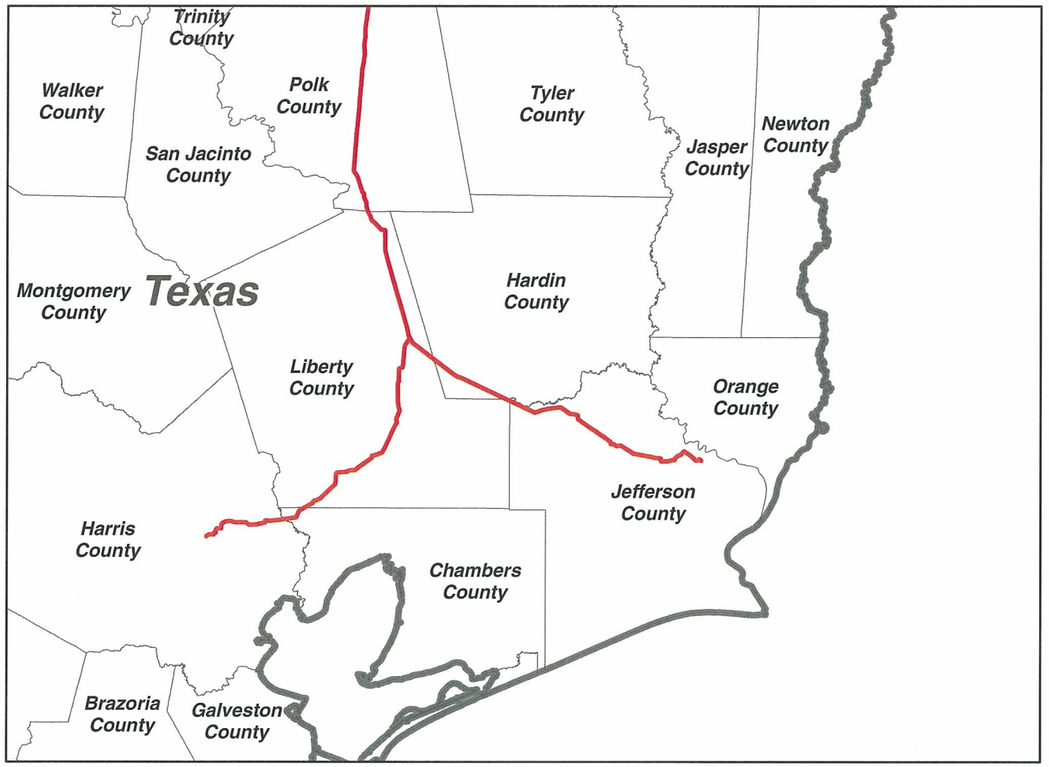



# TransCanada Keystone Pipeline, L.P.
# United States Department of State
# Keystone XL Project
# Appendix A
# Pipeline Aerial Route Sheets

## Houston Lateral

3/18/09 Centerline

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

TransCanada
In business to deliver

| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

KEYSTONE XL PROJECT
ROUTE SHEETS

MAP PARAMETERS
PROJECTION: NAD83, UTM: 15N
NTS

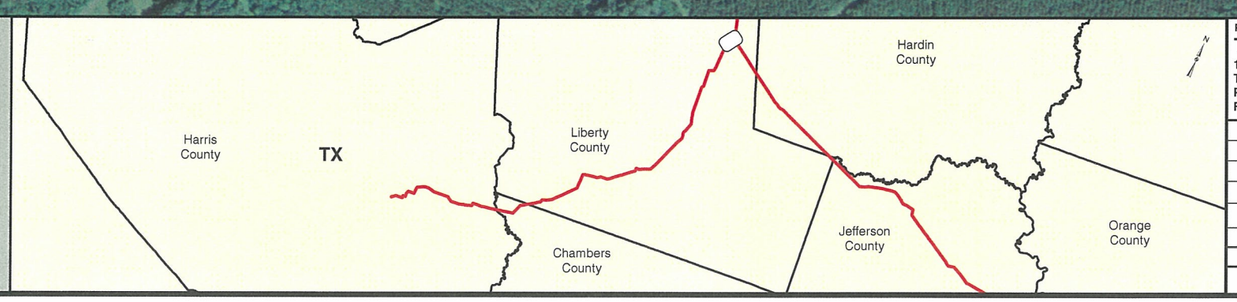
PROJECT: 50388X

SHEET: COVER SHEET

| DRAWING NUMBER | DRAWN BY | CHECKED BY | APPROVED BY |
|---|---|---|---|
| XL-48-LA-2002-P-000 | GS | SS | RG |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

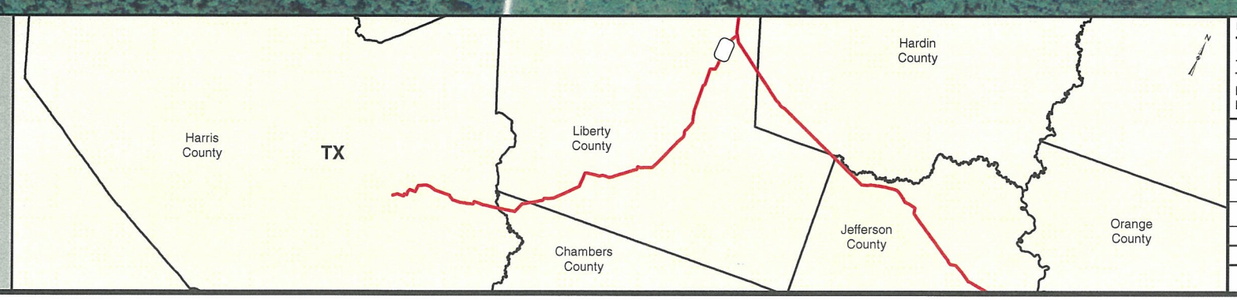
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 001-A | 001 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

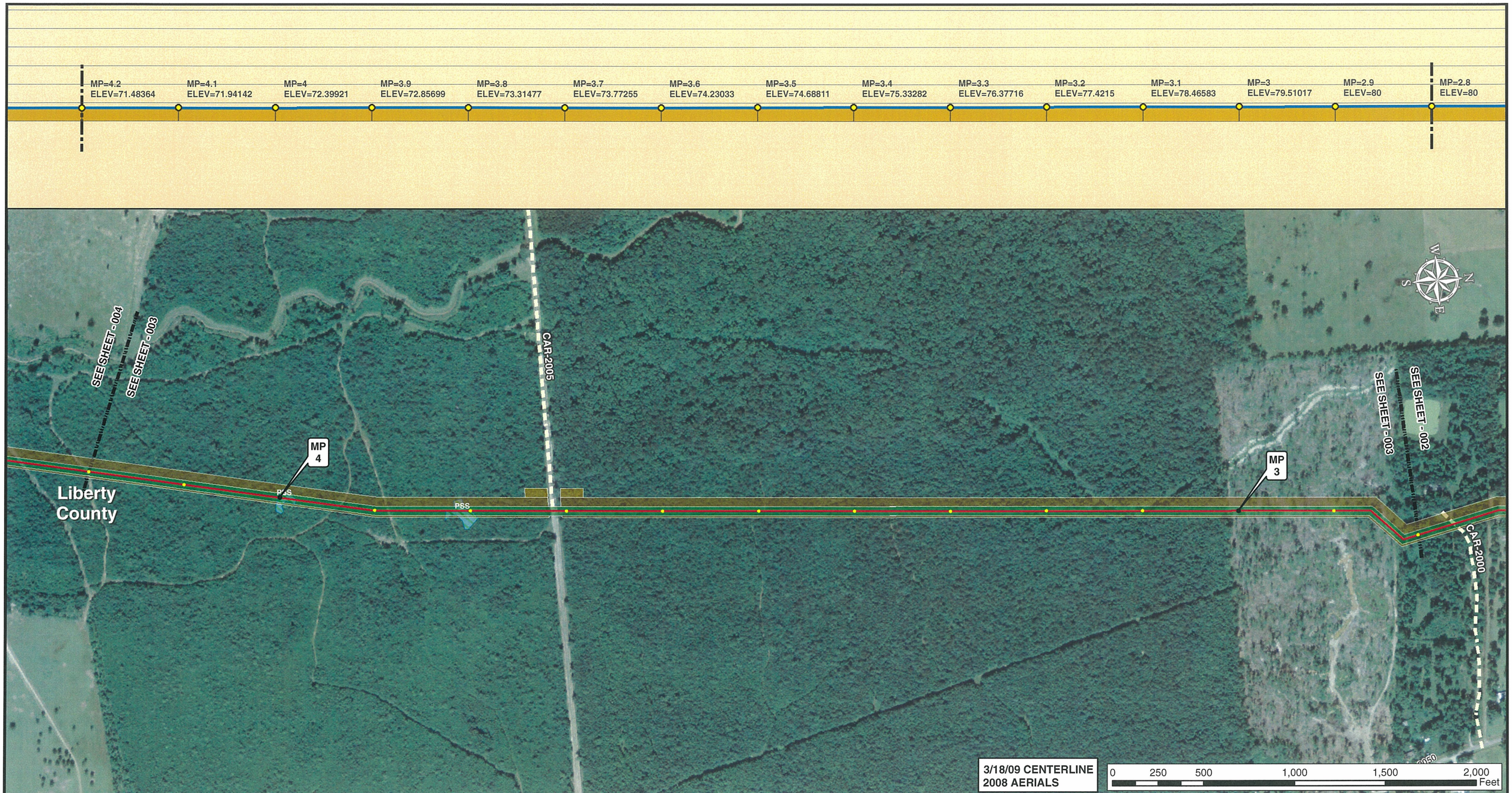
TransCanada
*In business to deliver*

| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

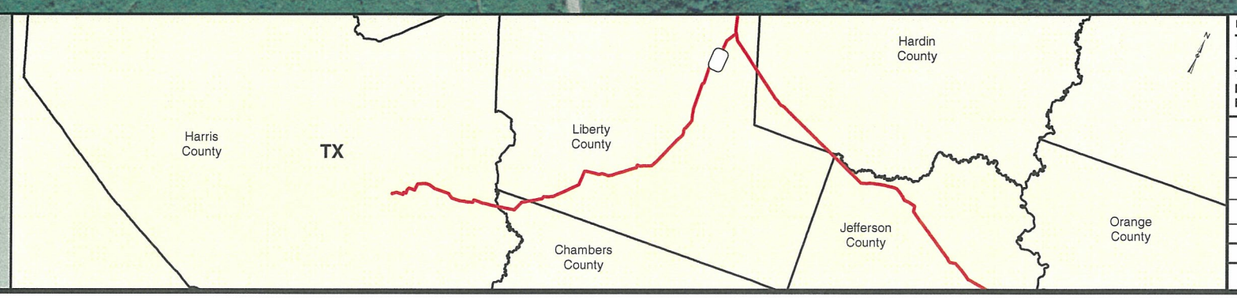
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 002-A | 002 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 003-A | 003 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE

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

TransCanada
*In business to deliver*

| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

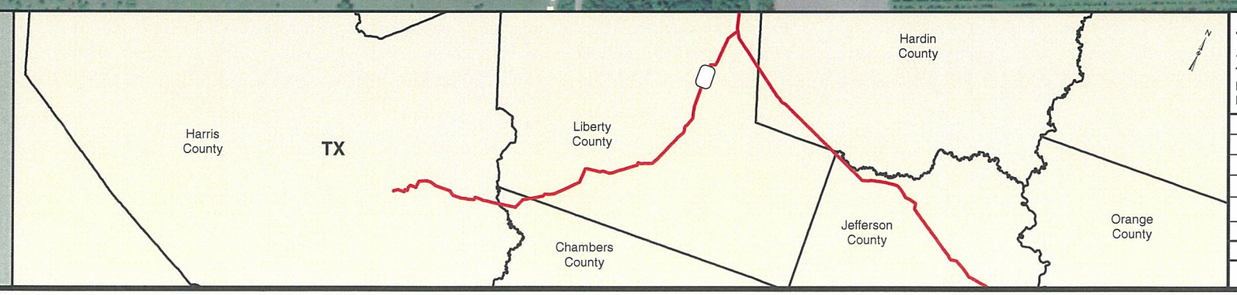
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 004-A | 004 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

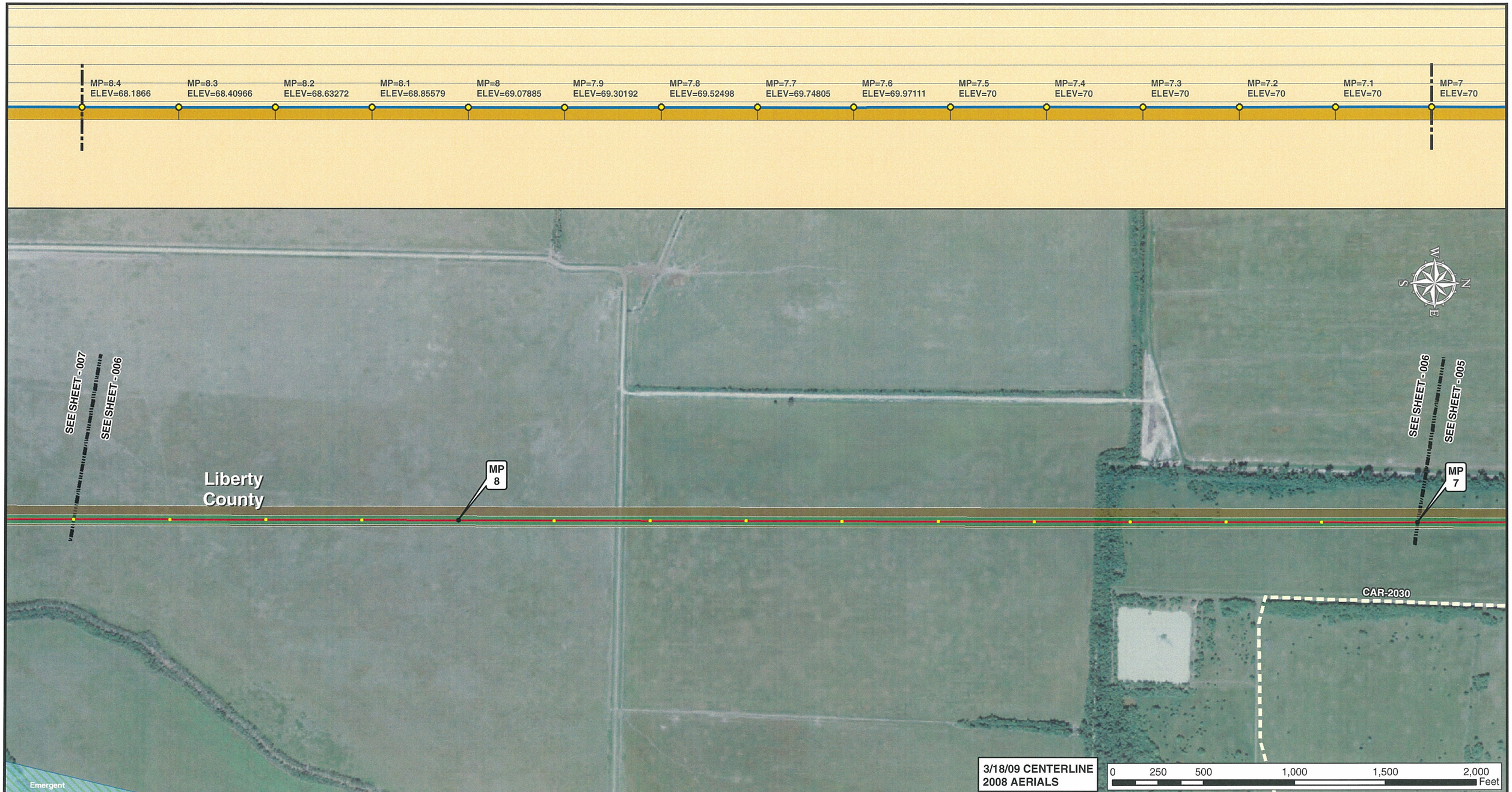
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 005-A | 005 | 2 |

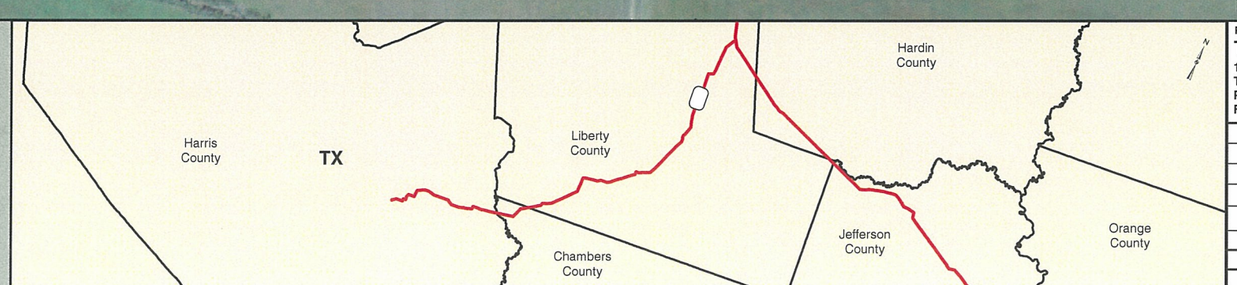



3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

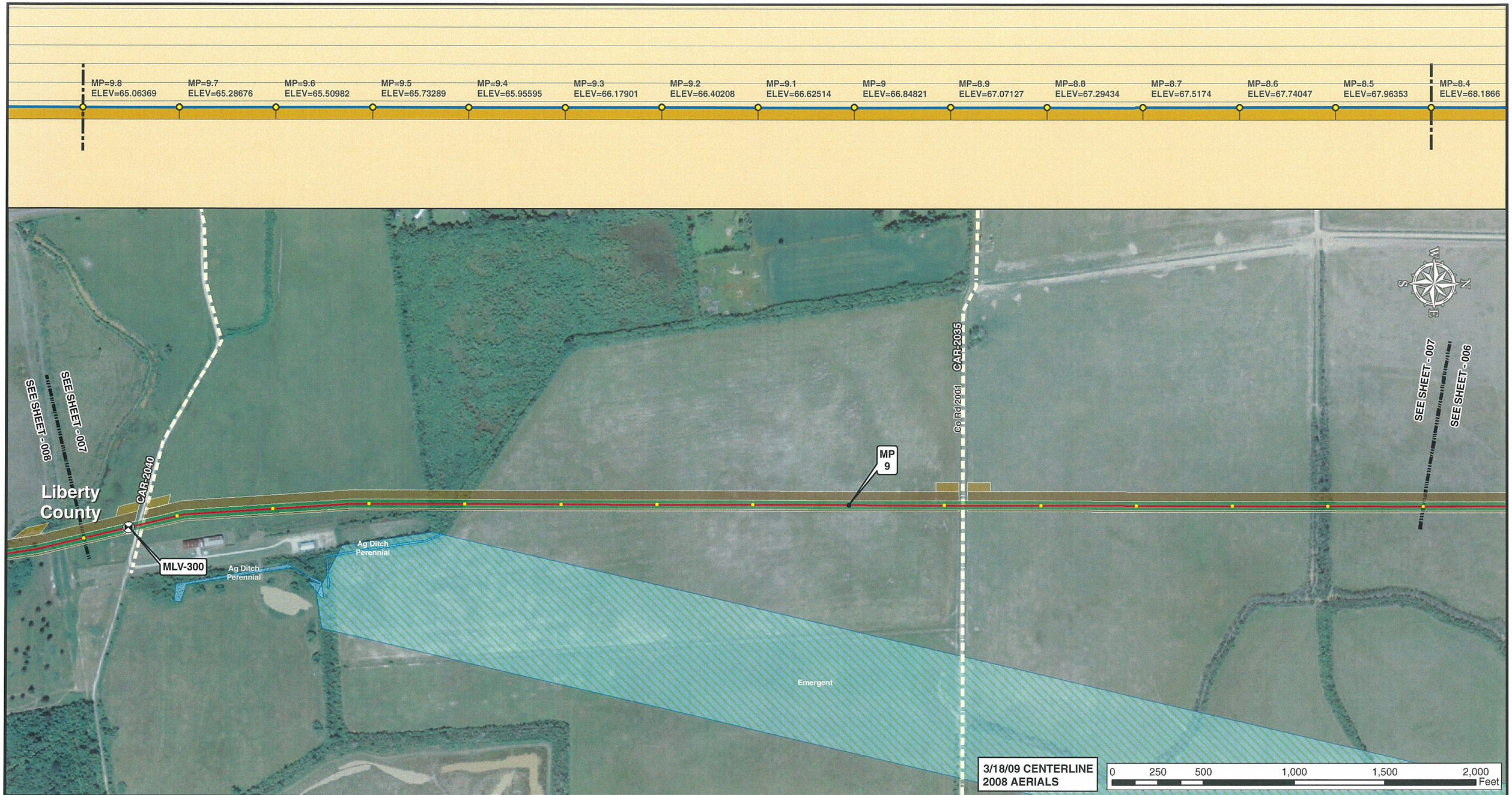
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

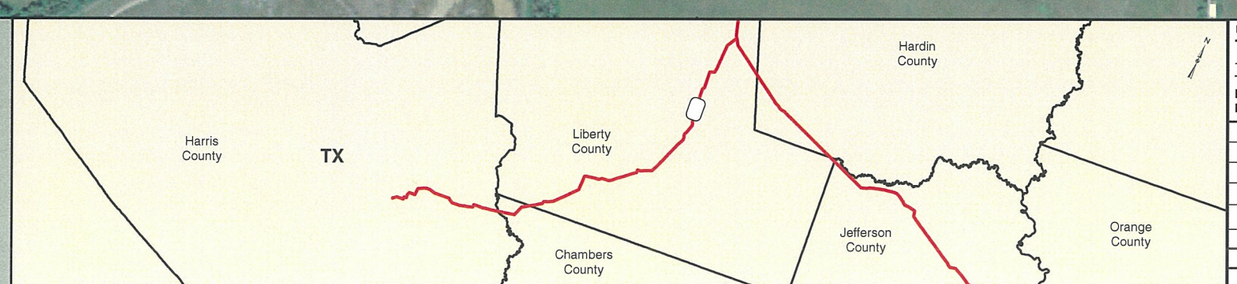
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 006-A | 006 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

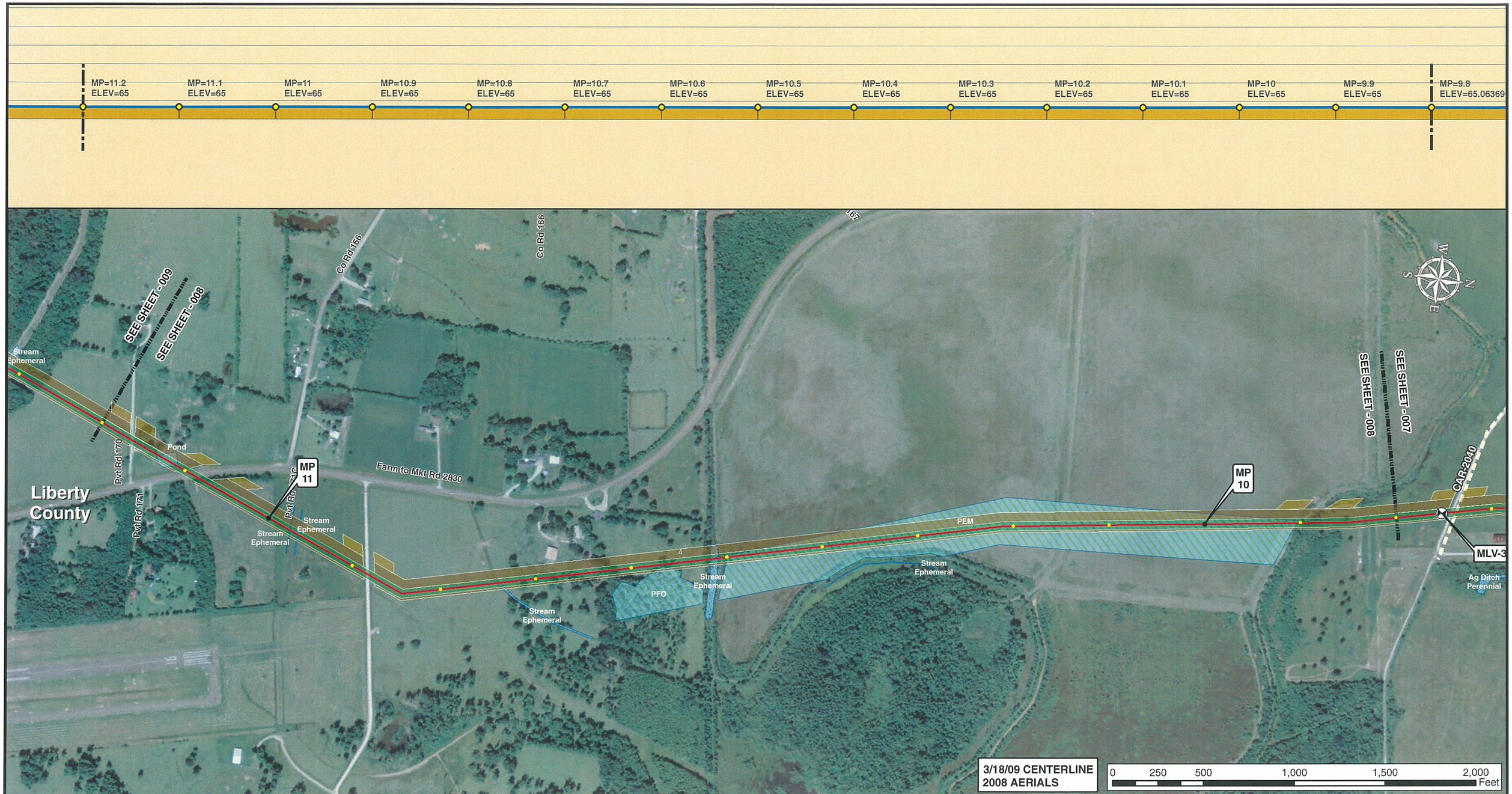
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

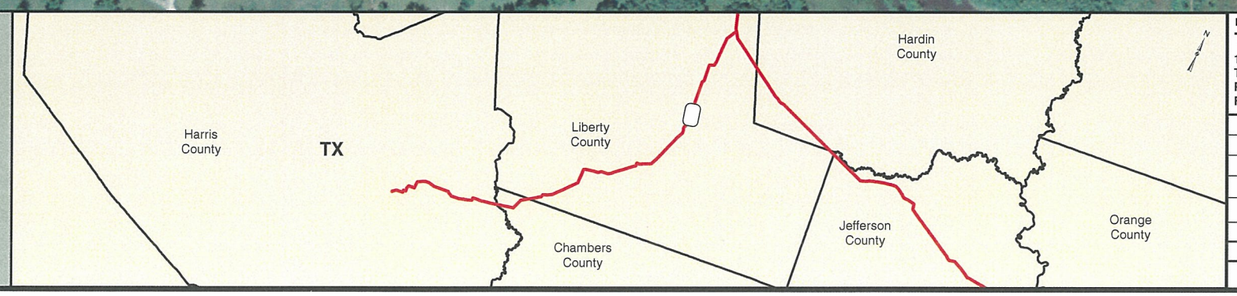
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 007-A | 007 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

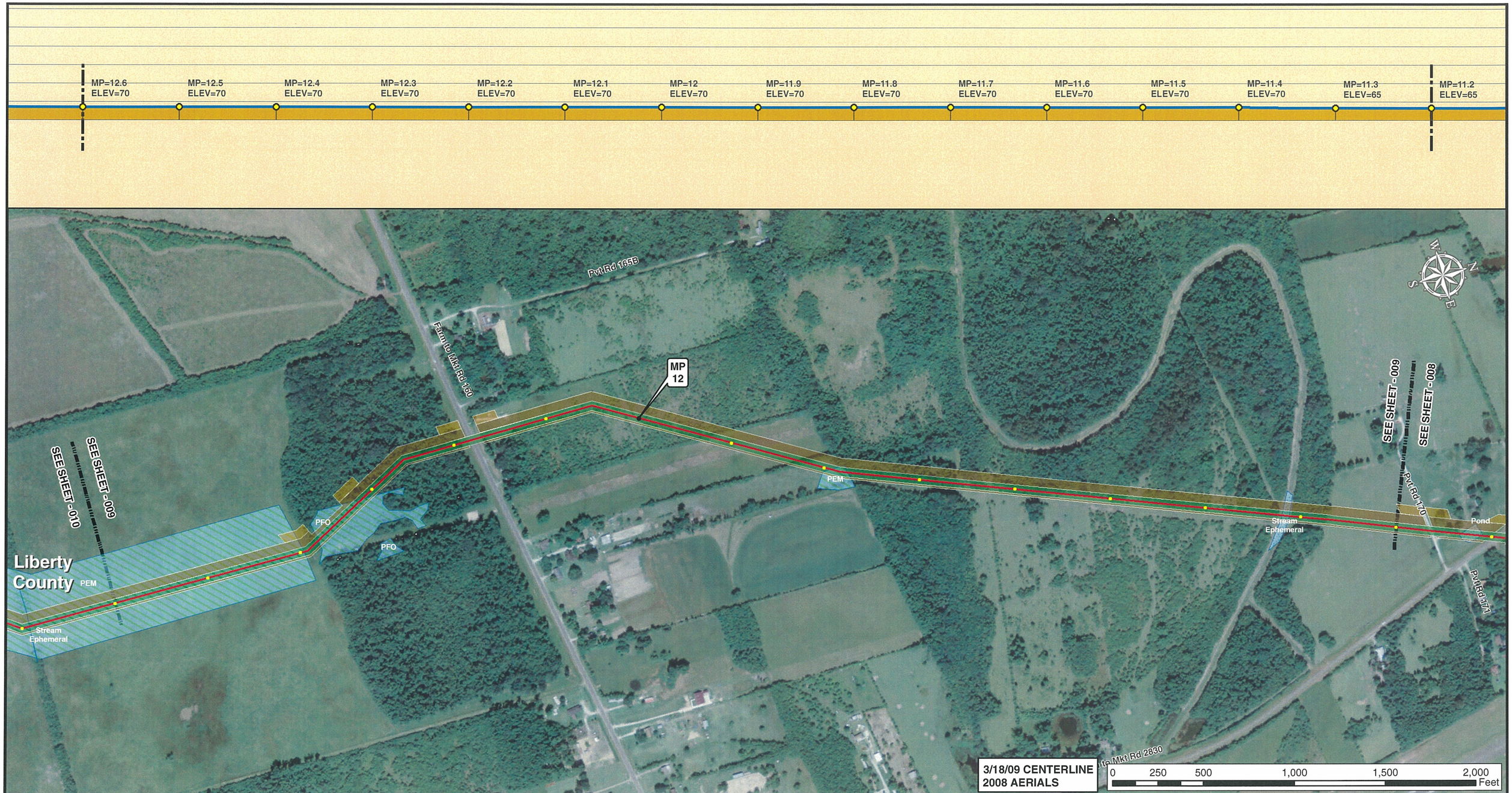
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

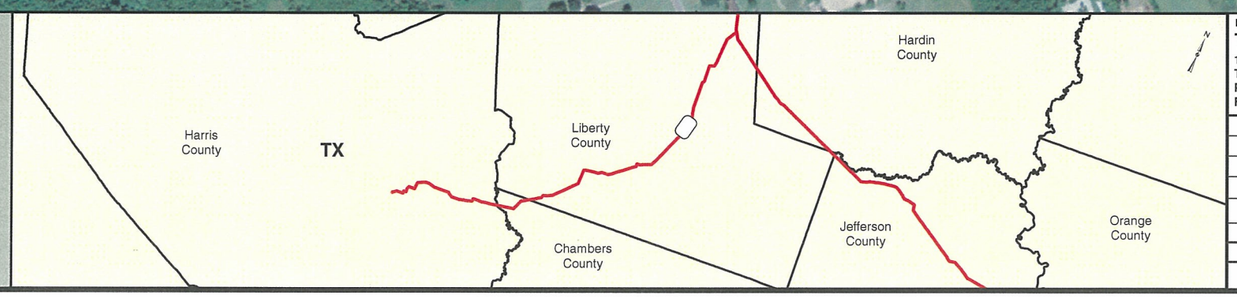
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 008-A | 008 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

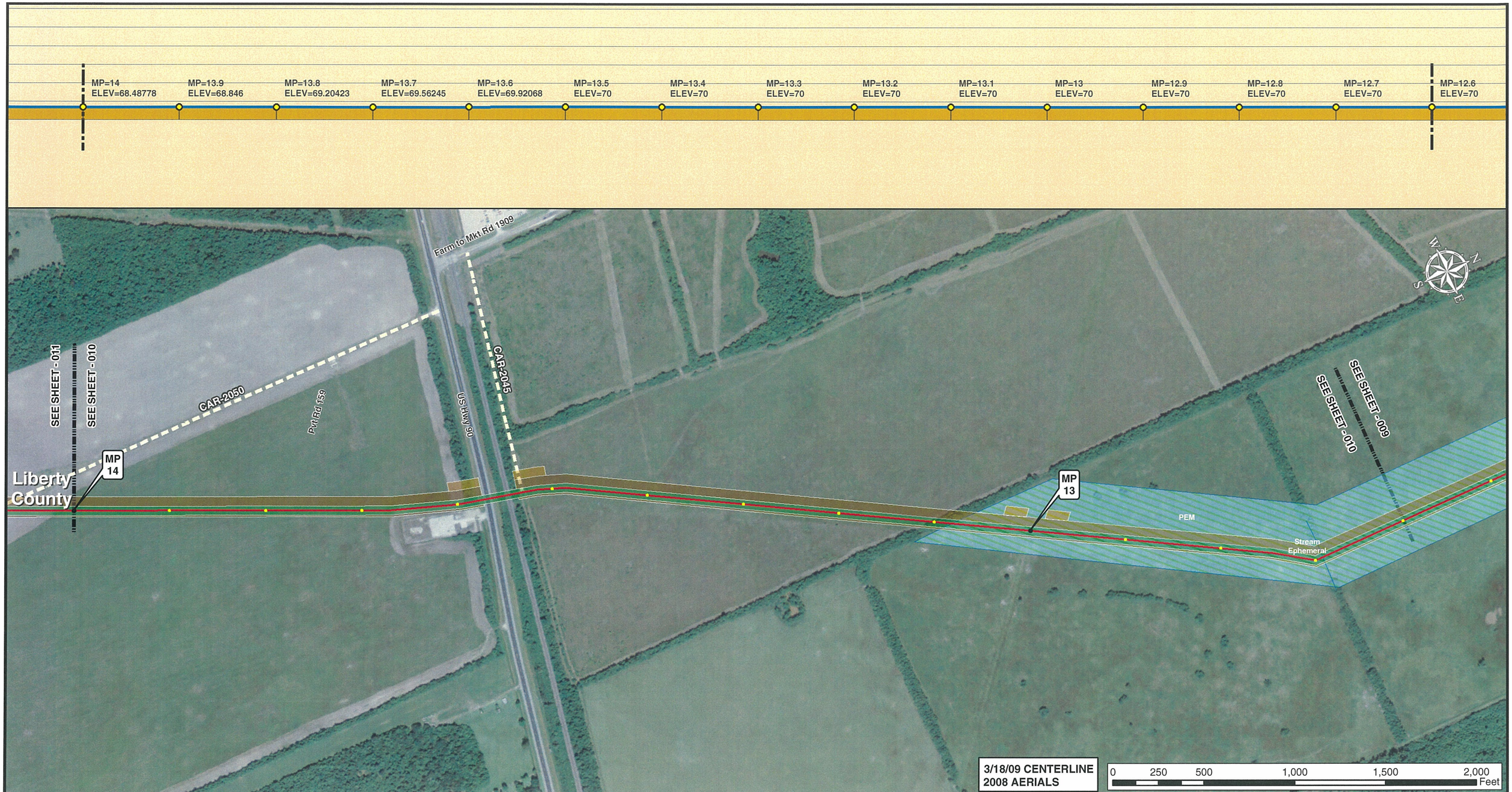
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

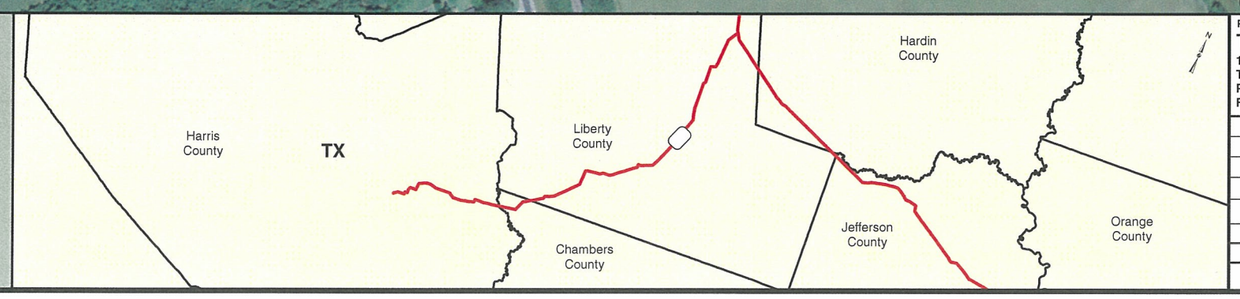
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 009-A | 009 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

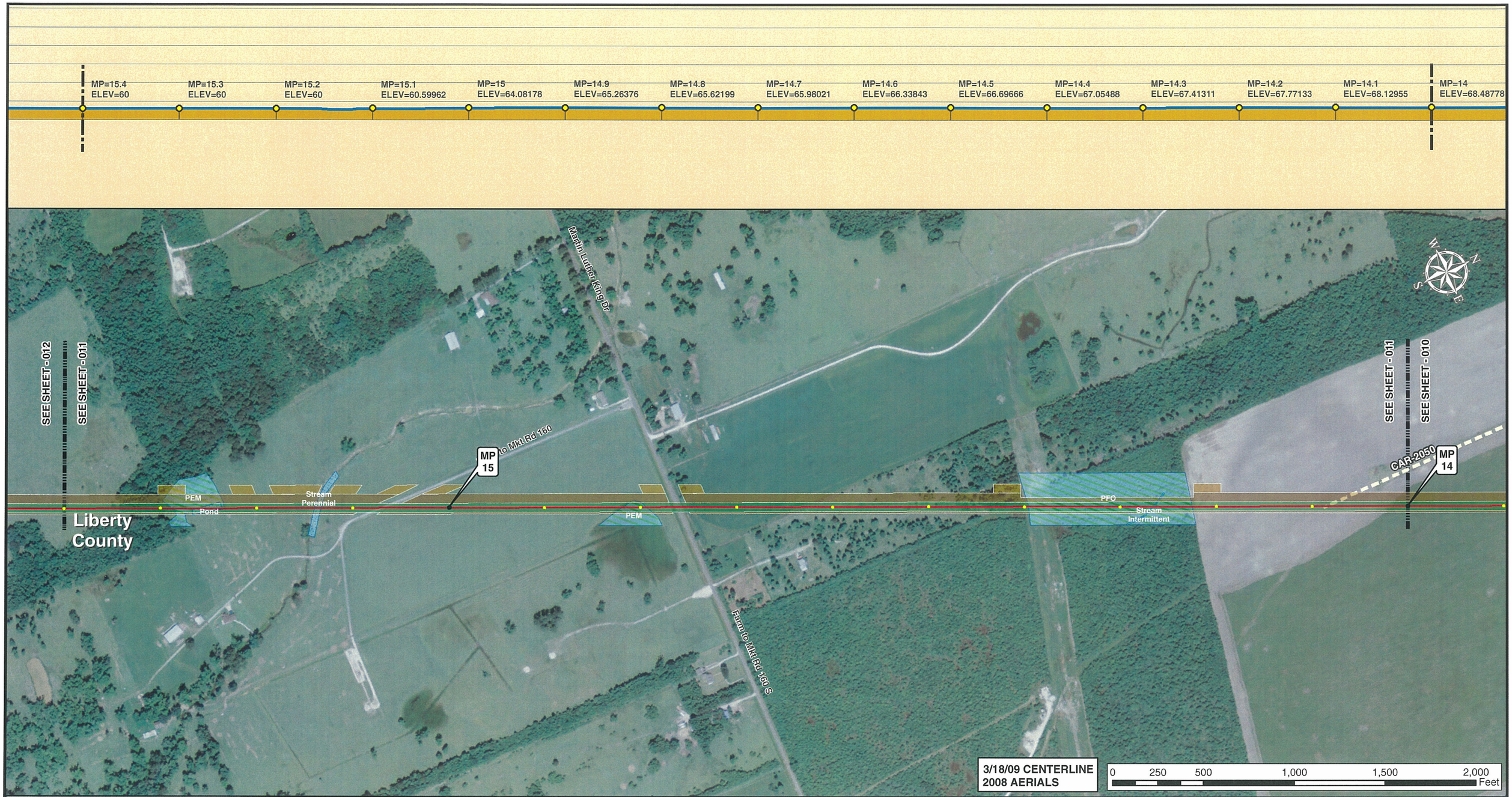
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 010-A | 010 | 2 |




3/18/09 CENTERLINE
2008 AERIALS

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE

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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
In business to deliver

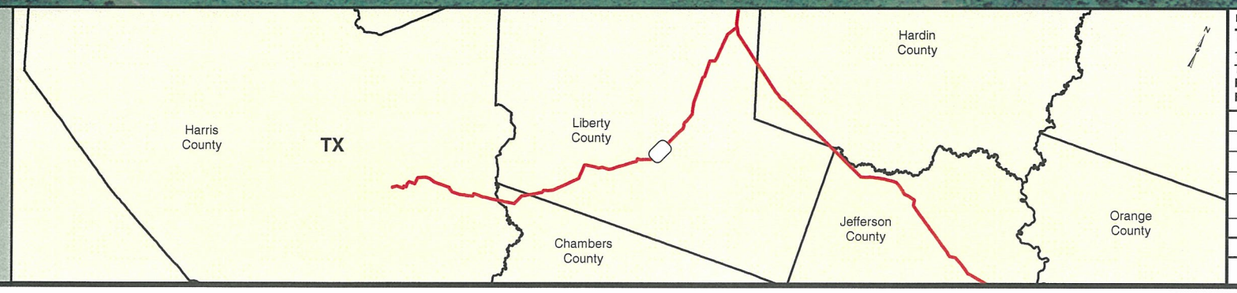
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 011-A | 011 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

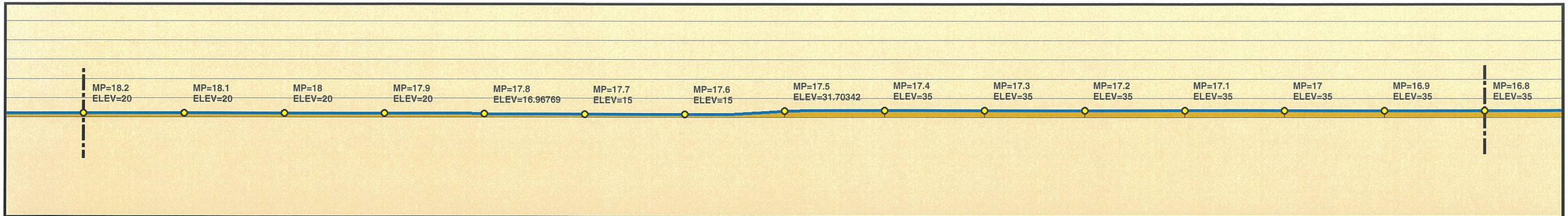
TransCanada
*In business to deliver*

| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

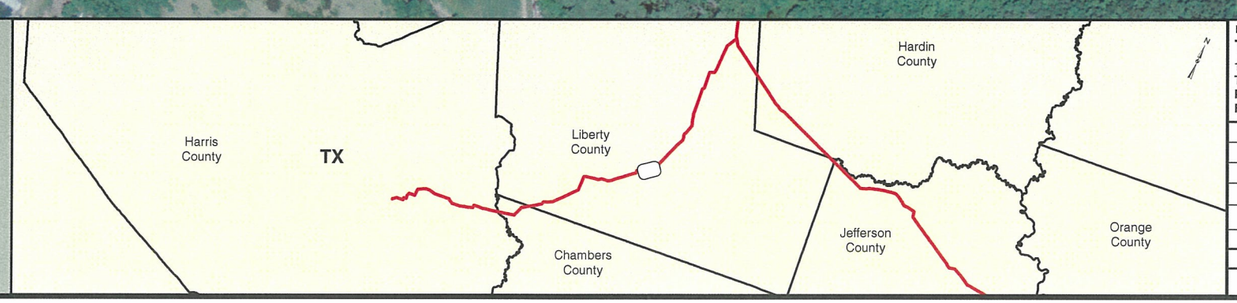
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 012-A | 012 | 2 |



Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

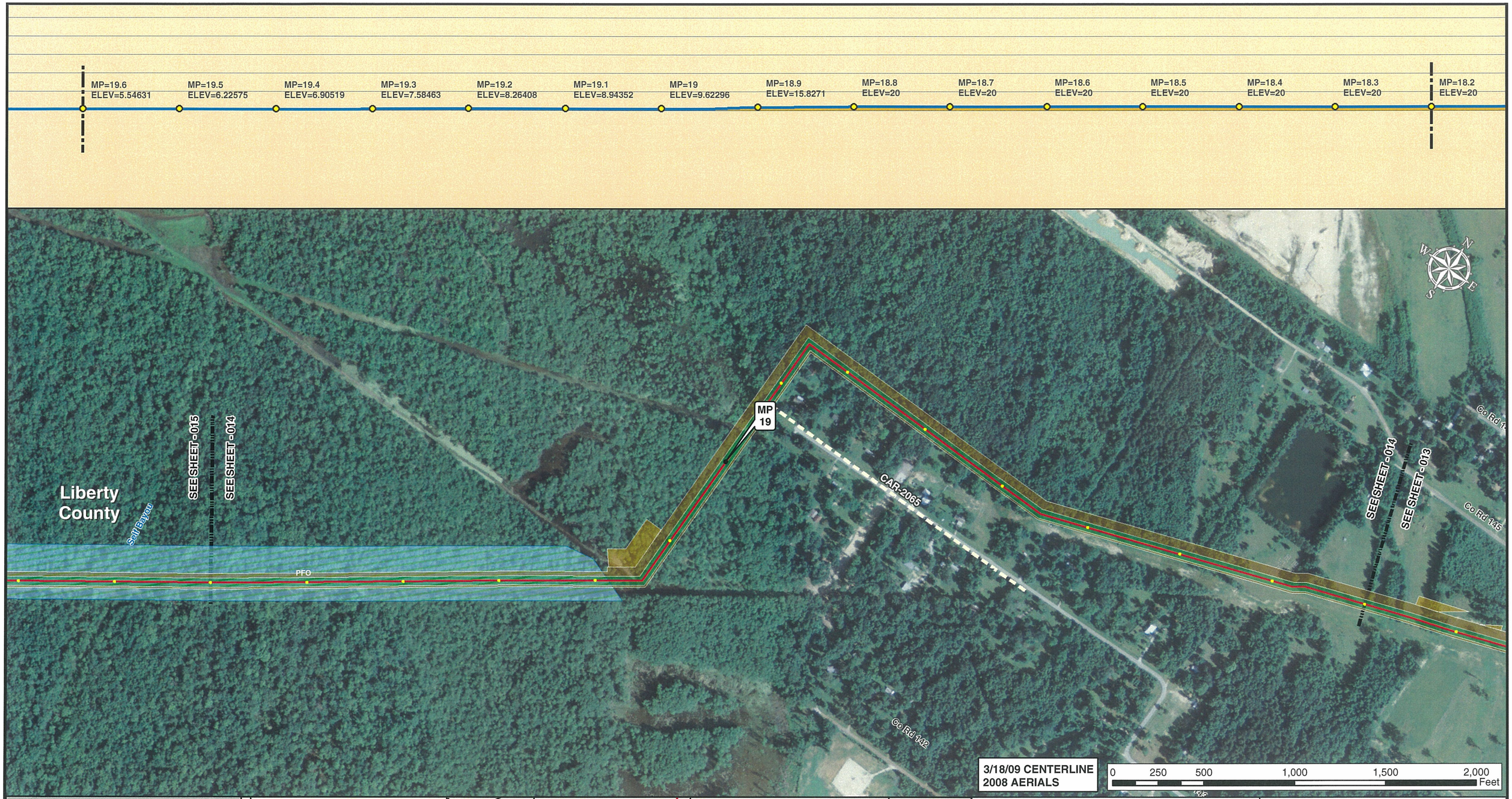
TransCanada
In business to deliver

| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

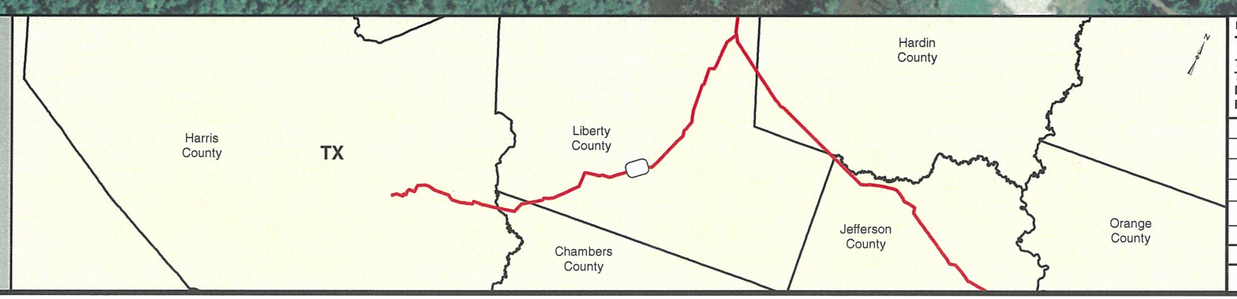
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 013-A | 013 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

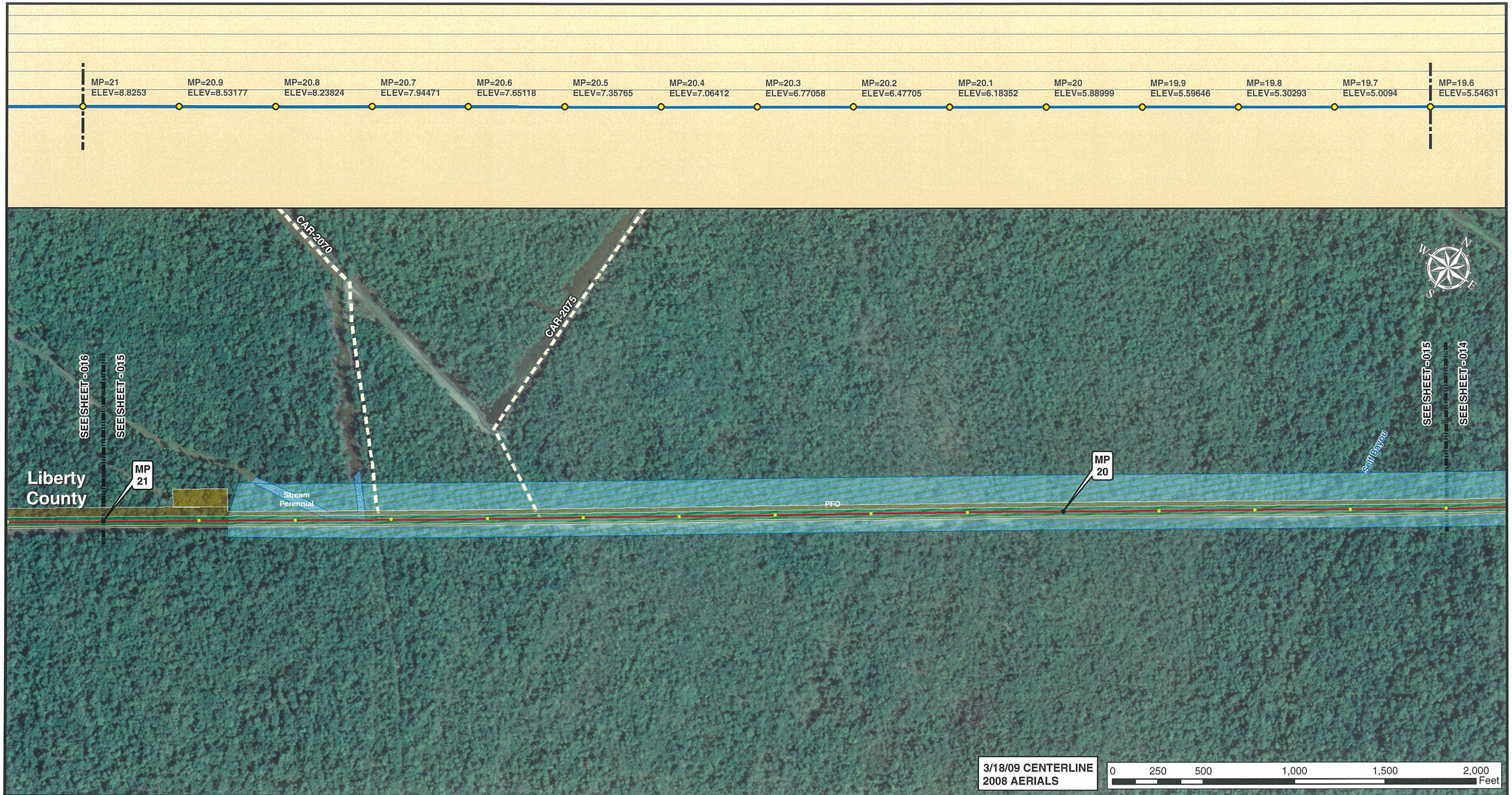
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 014-A | 014 | 2 |

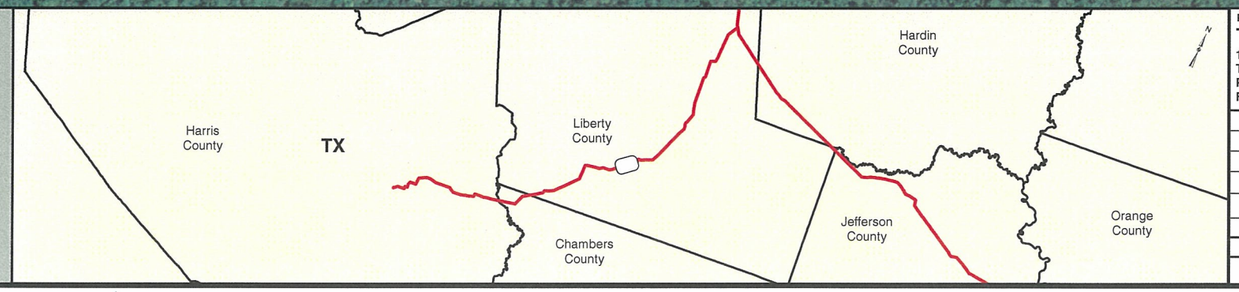



3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

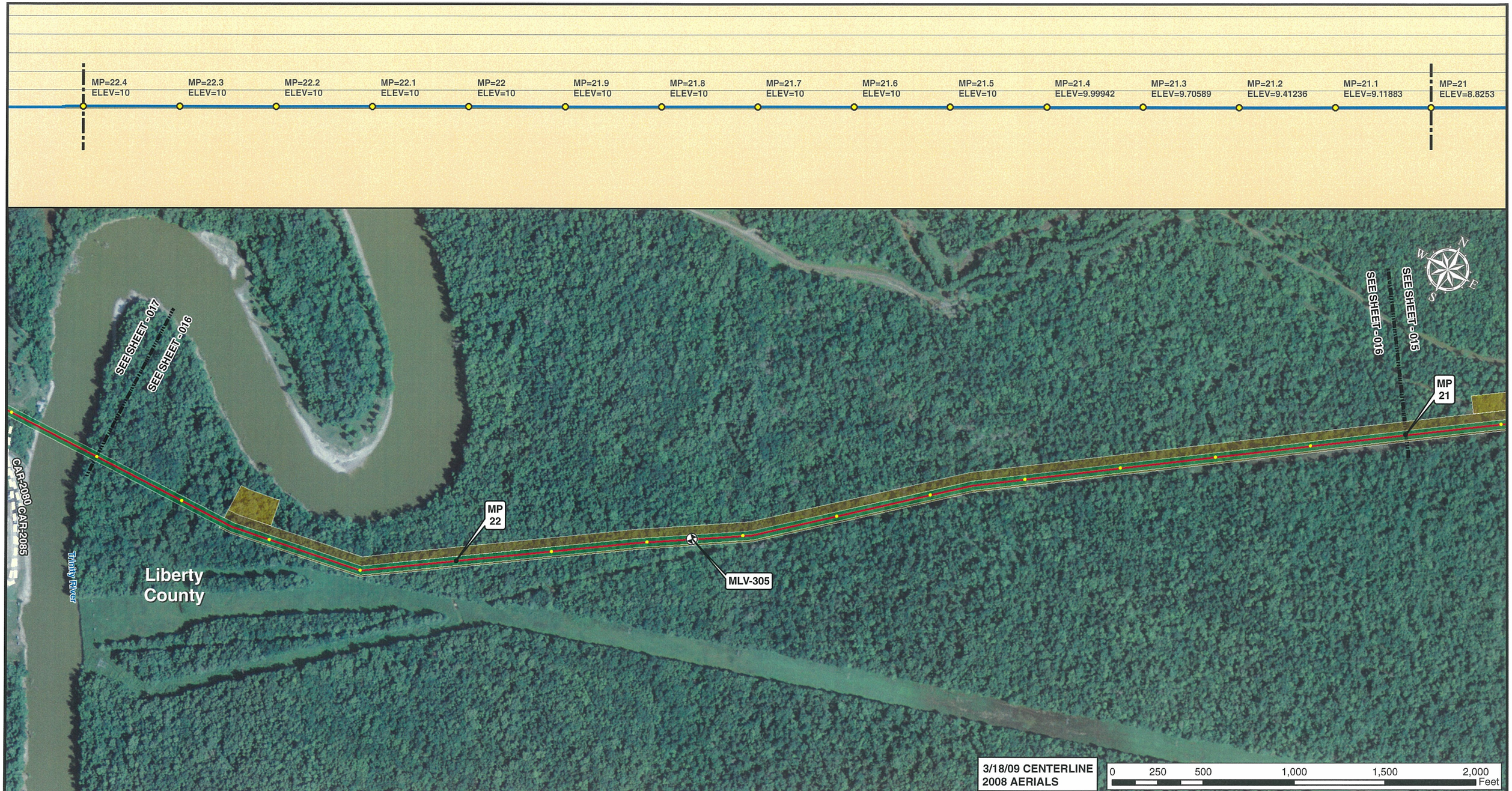
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

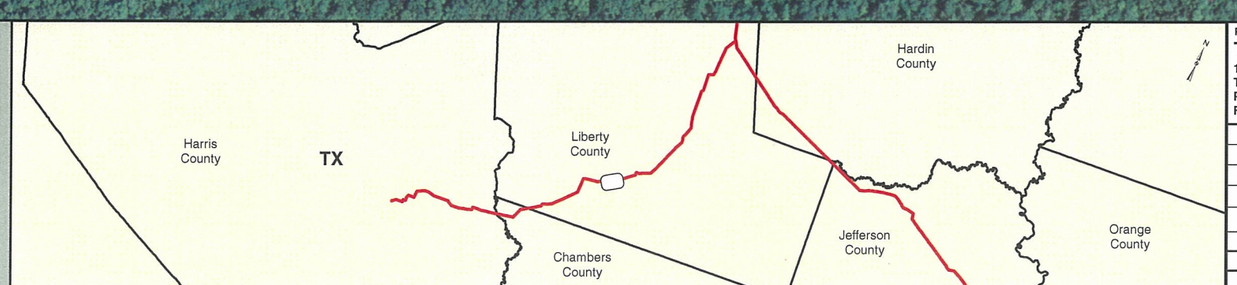
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 015-A | 015 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

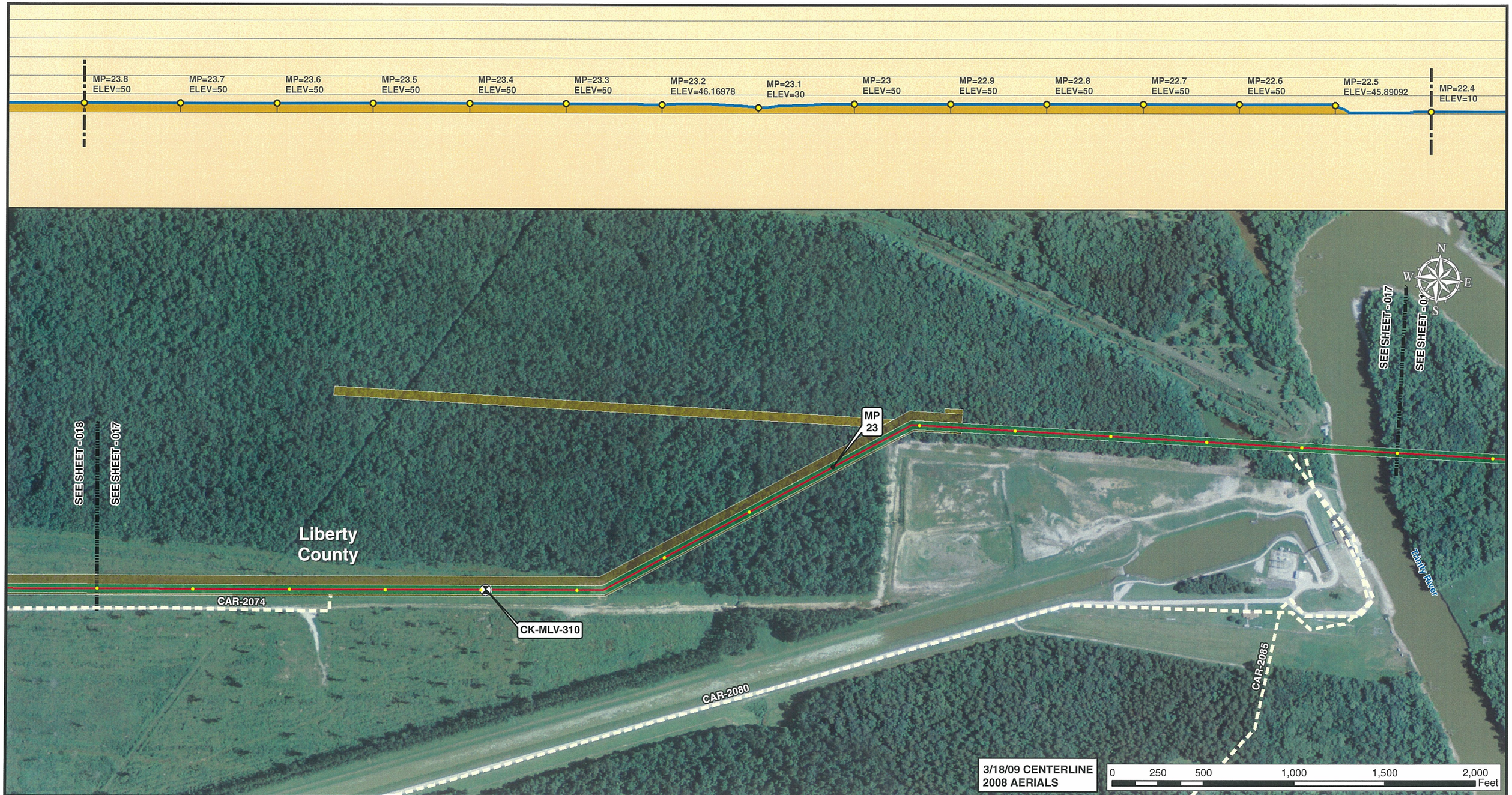
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

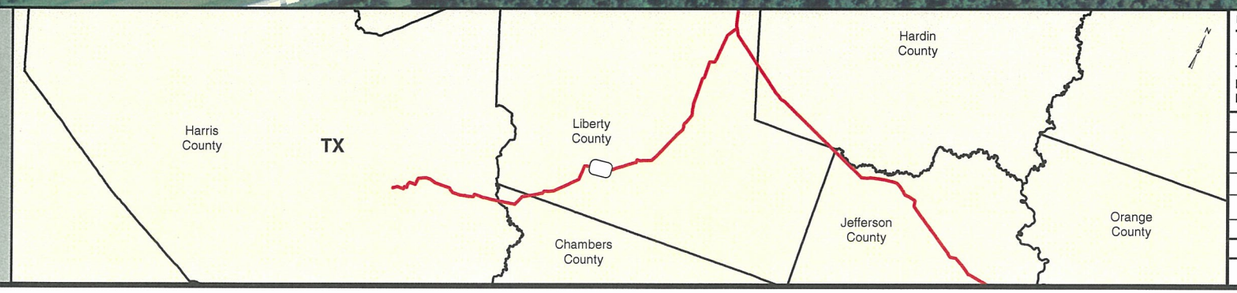
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 016-A | 016 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

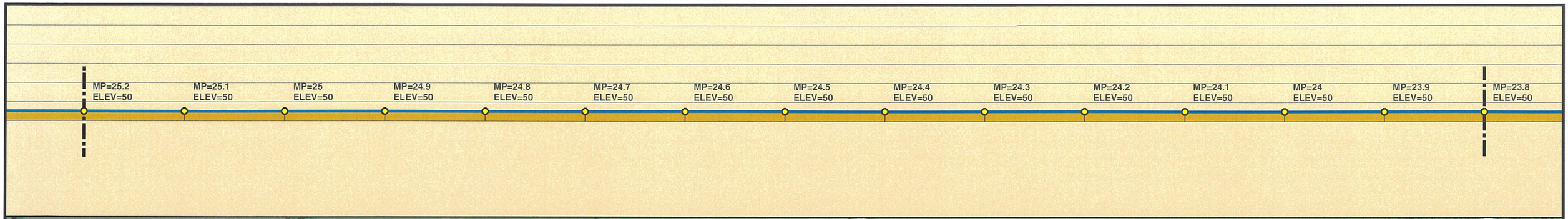
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

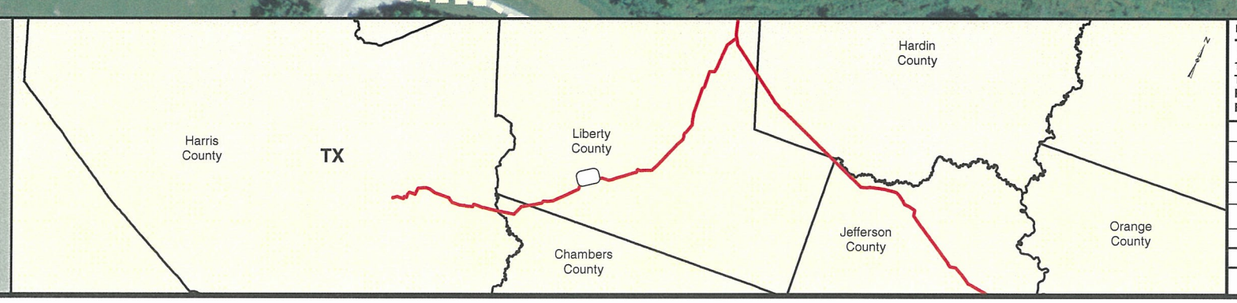
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 017-A | 017 | 2 |



Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

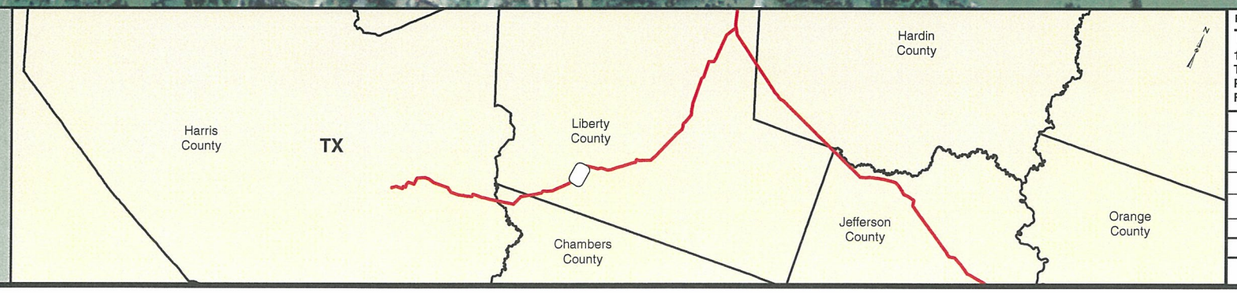
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 018-A | 018 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

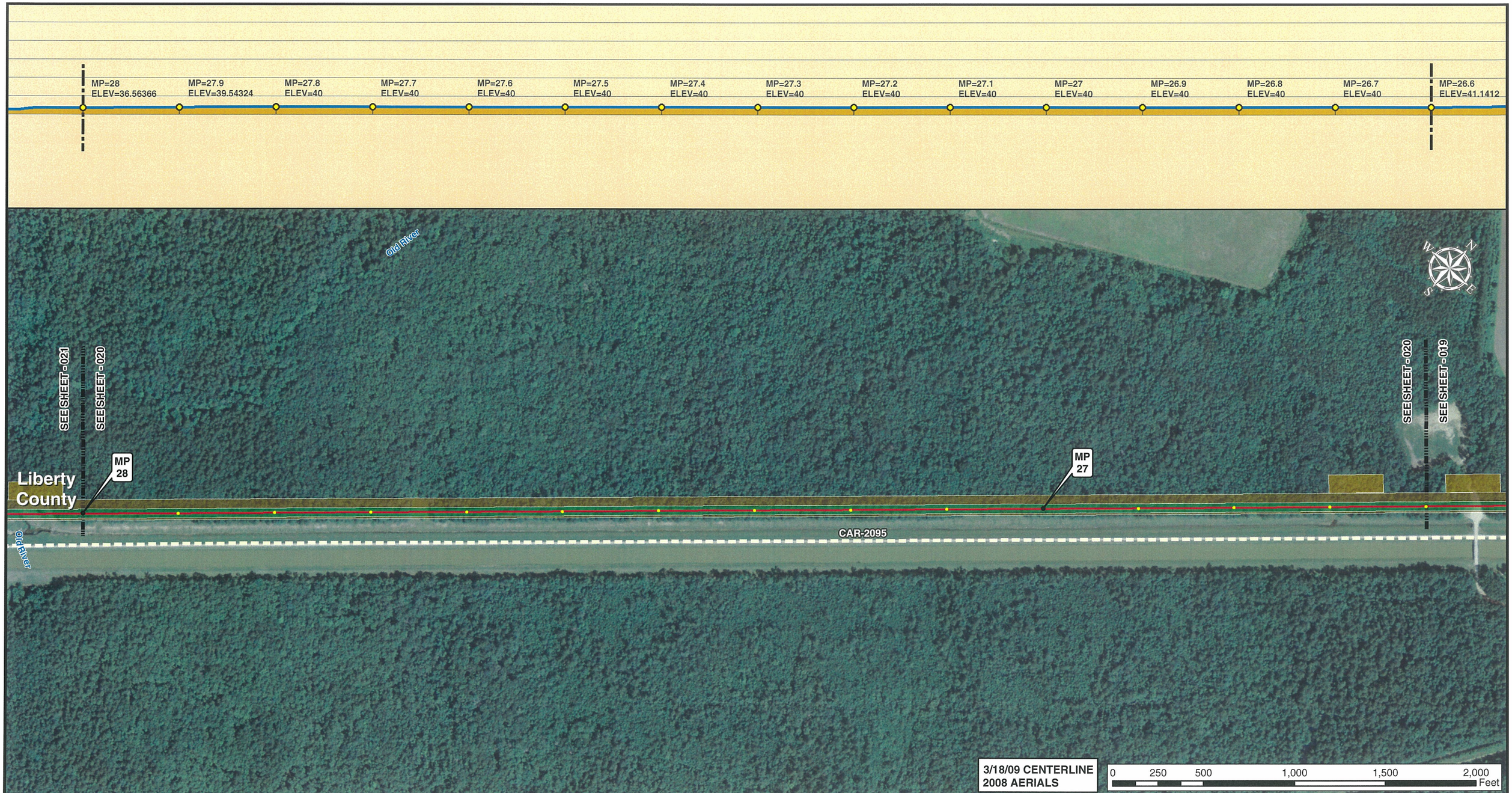
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

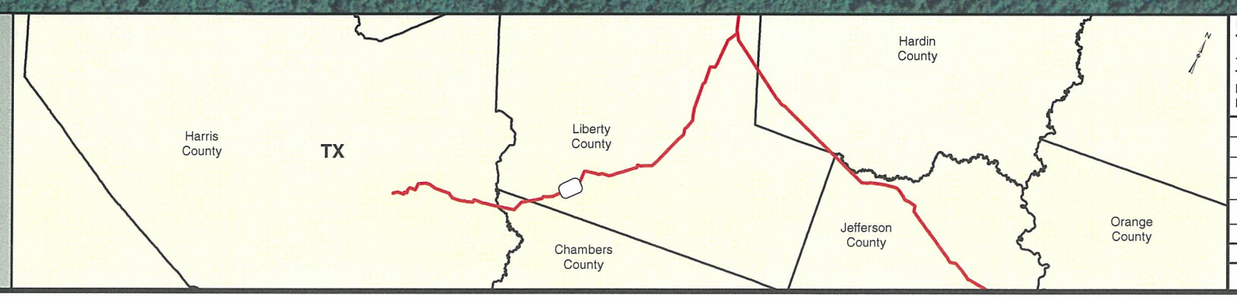
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 019-A | 019 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

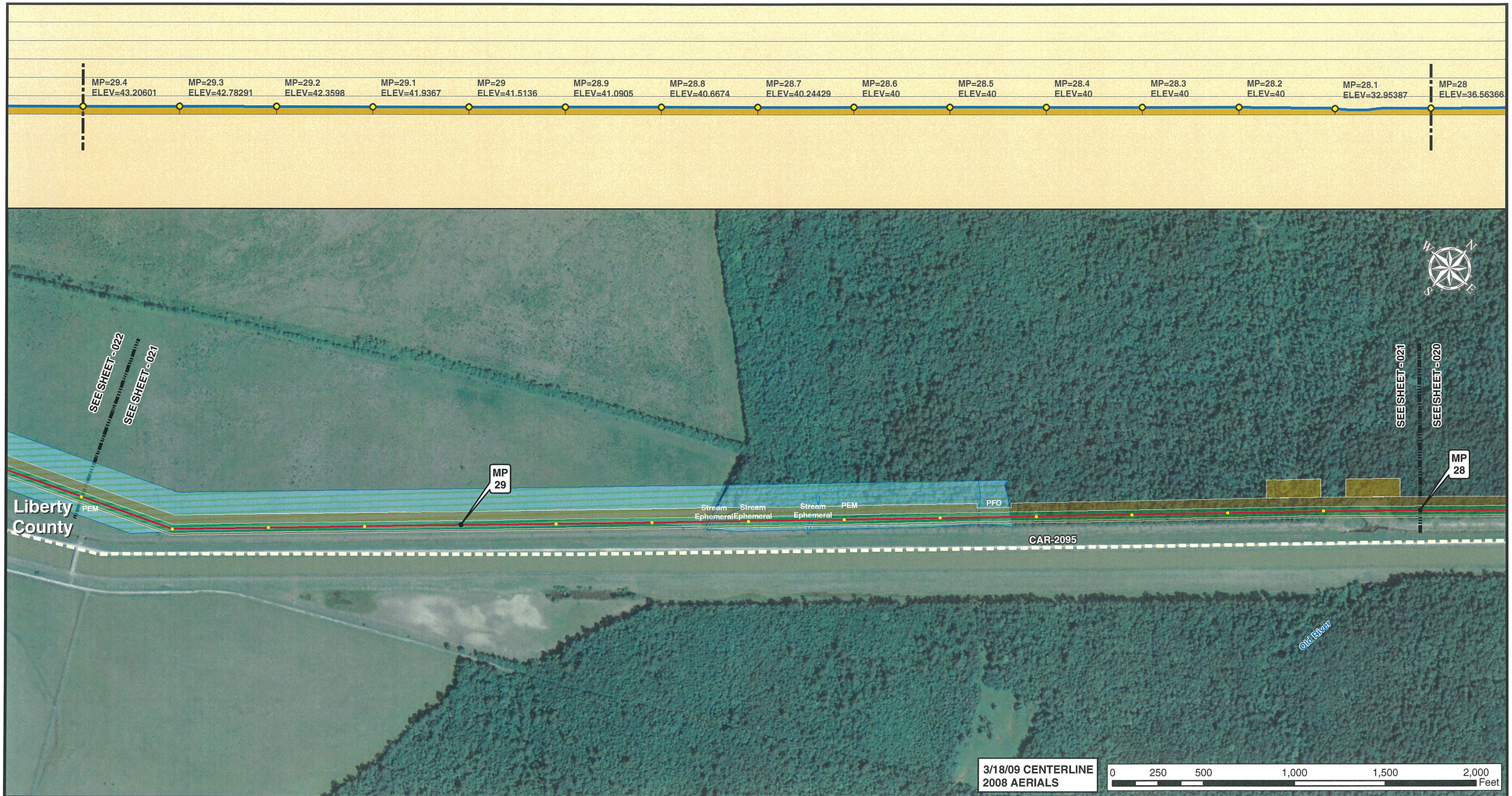
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 020-A | 020 | 2 |

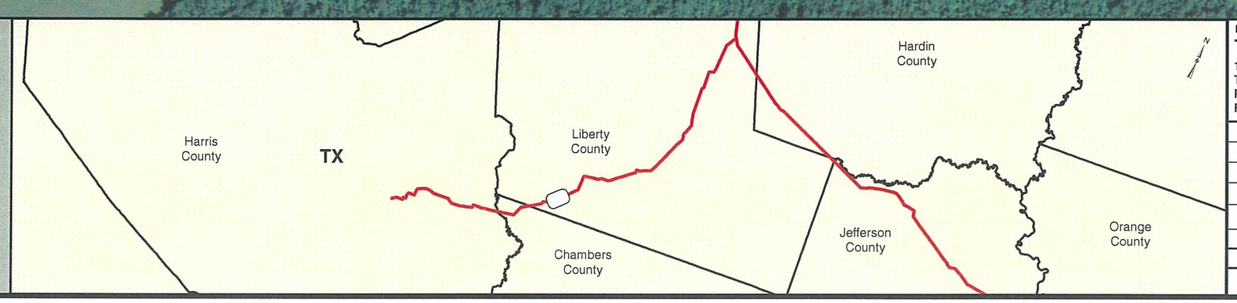



3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

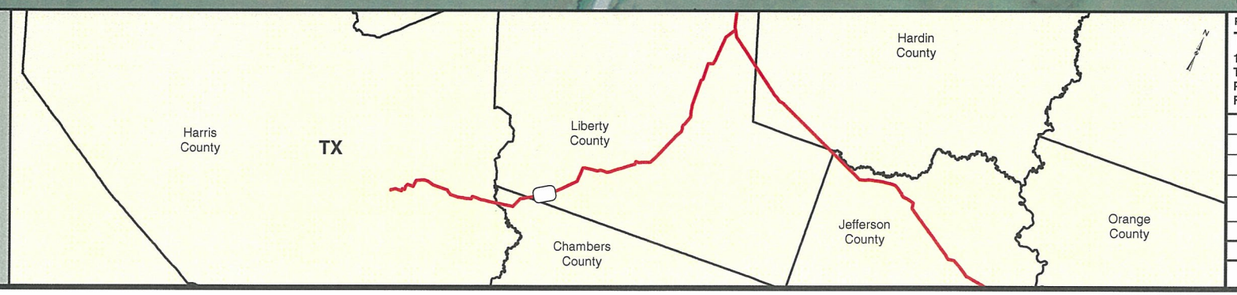
| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 021-A | 021 | 2 |

3/18/09 CENTERLINE
2008 AERIALS

0 250 500 1,000 1,500 2,000 Feet

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

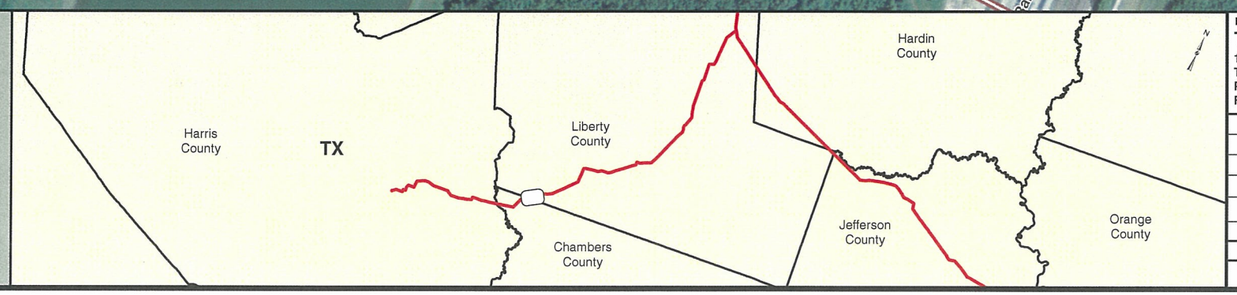
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 022-A | 022 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

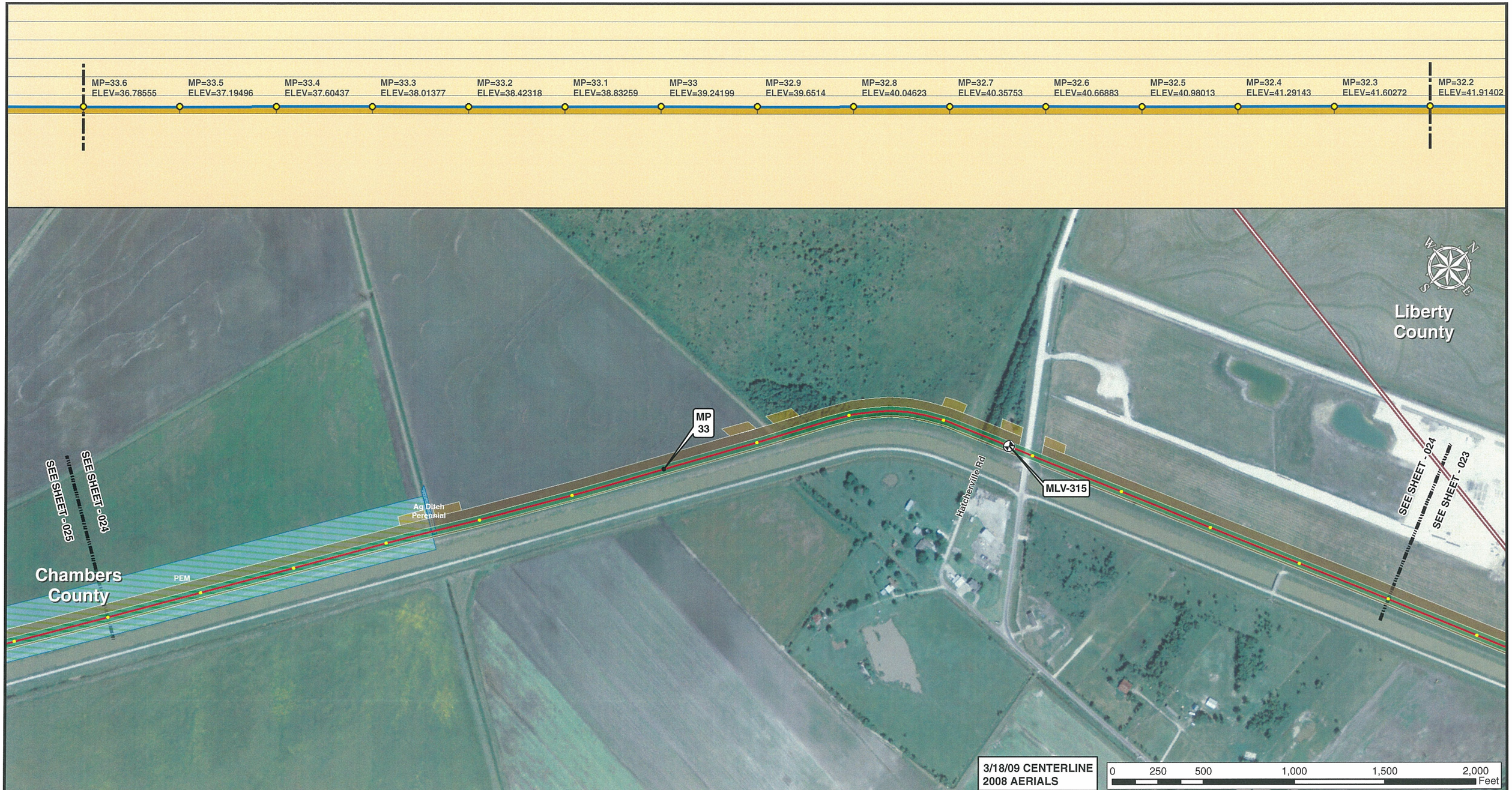
TransCanada
*In business to deliver*

| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
LIBERTY COUNTY, TEXAS

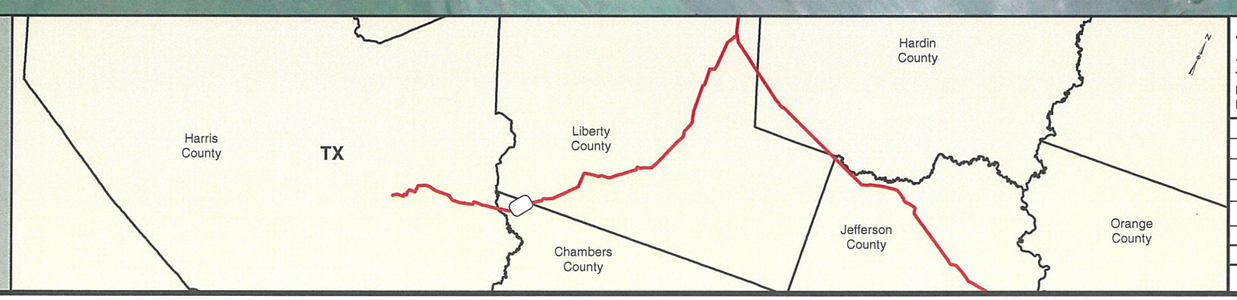
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 023-A | 023 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
CHAMBERS COUNTY, TEXAS

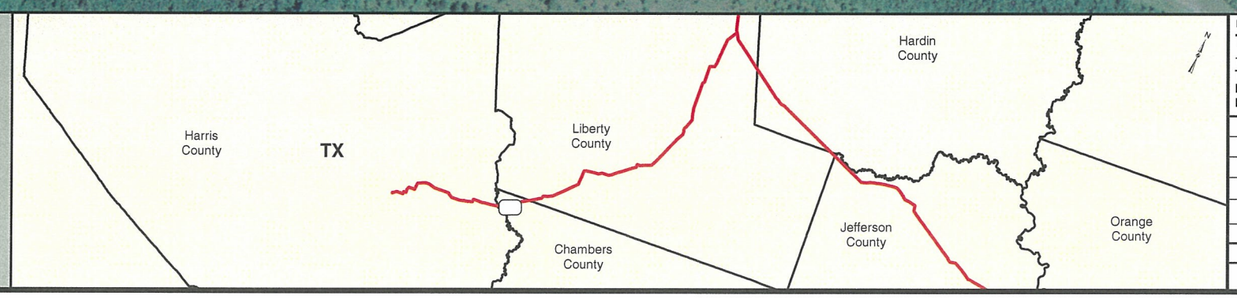
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 024-A | 024 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

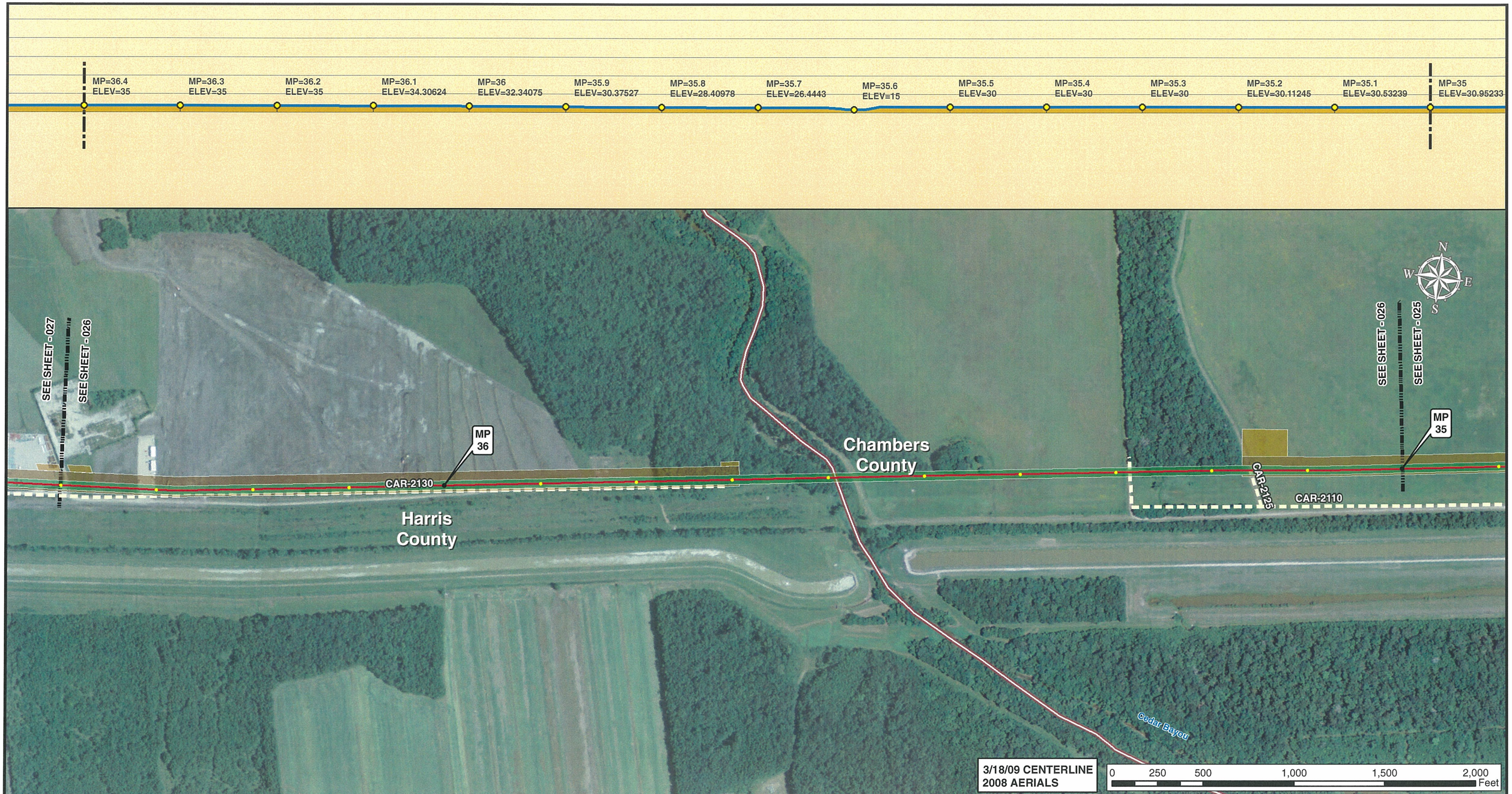
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
CHAMBERS COUNTY, TEXAS

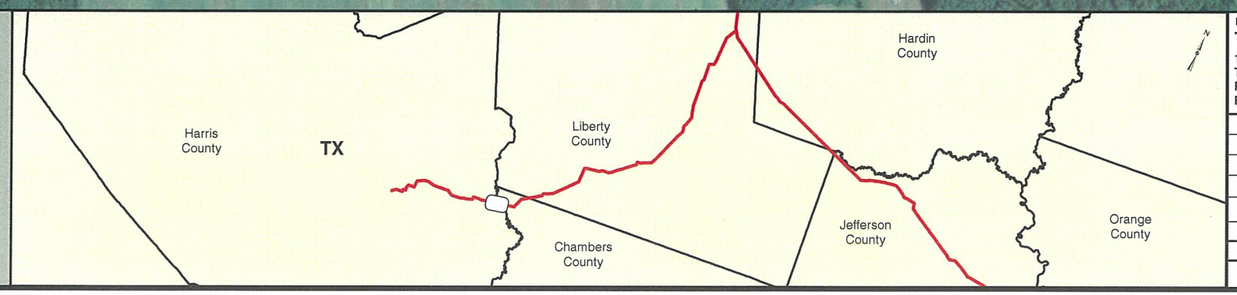
MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 025-A | 025 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

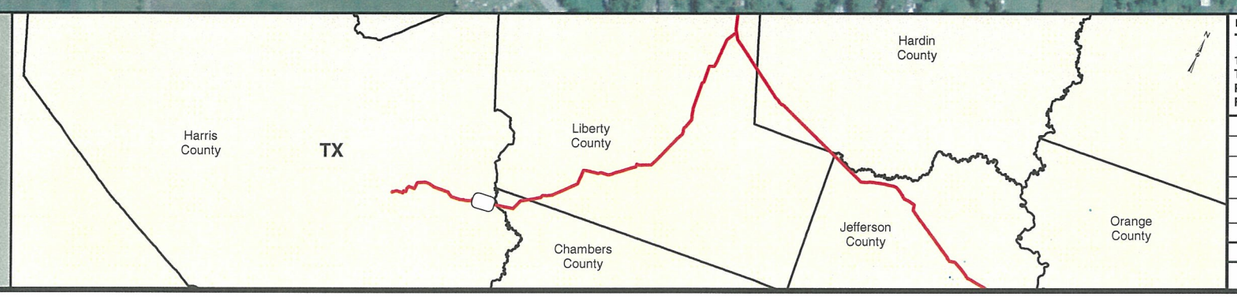
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
CHAMBERS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 026-A | 026 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

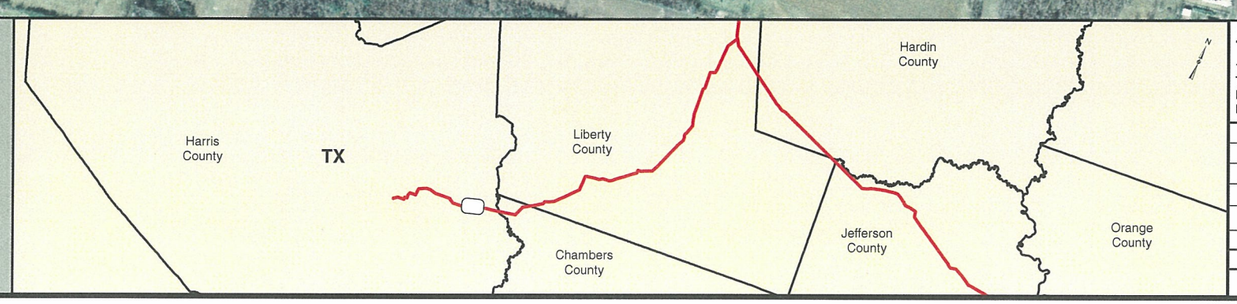
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 027-A | 027 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

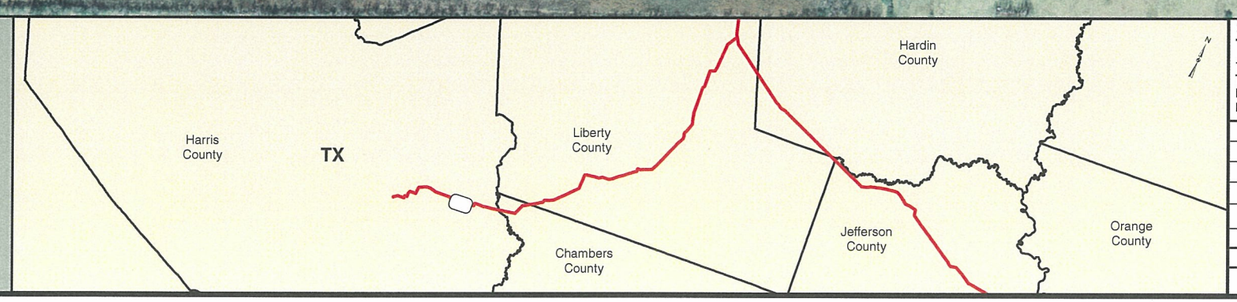
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 028-A | 028 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

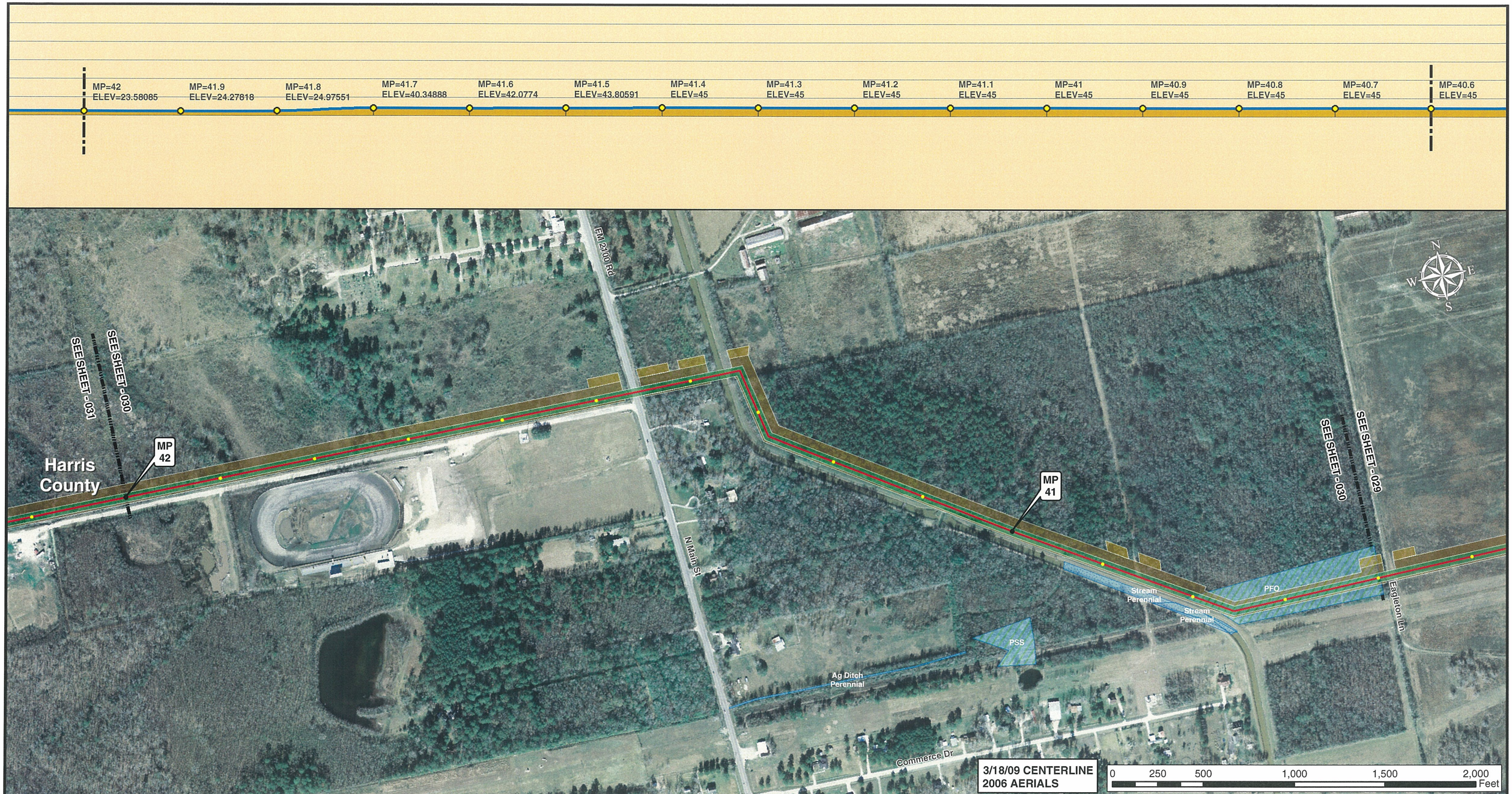
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

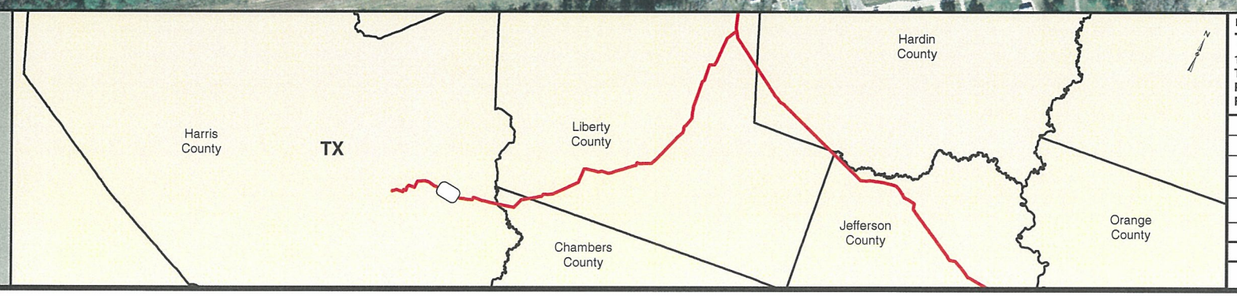
| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 029-A | 029 | 2 |




3/18/09 CENTERLINE
2006 AERIALS

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

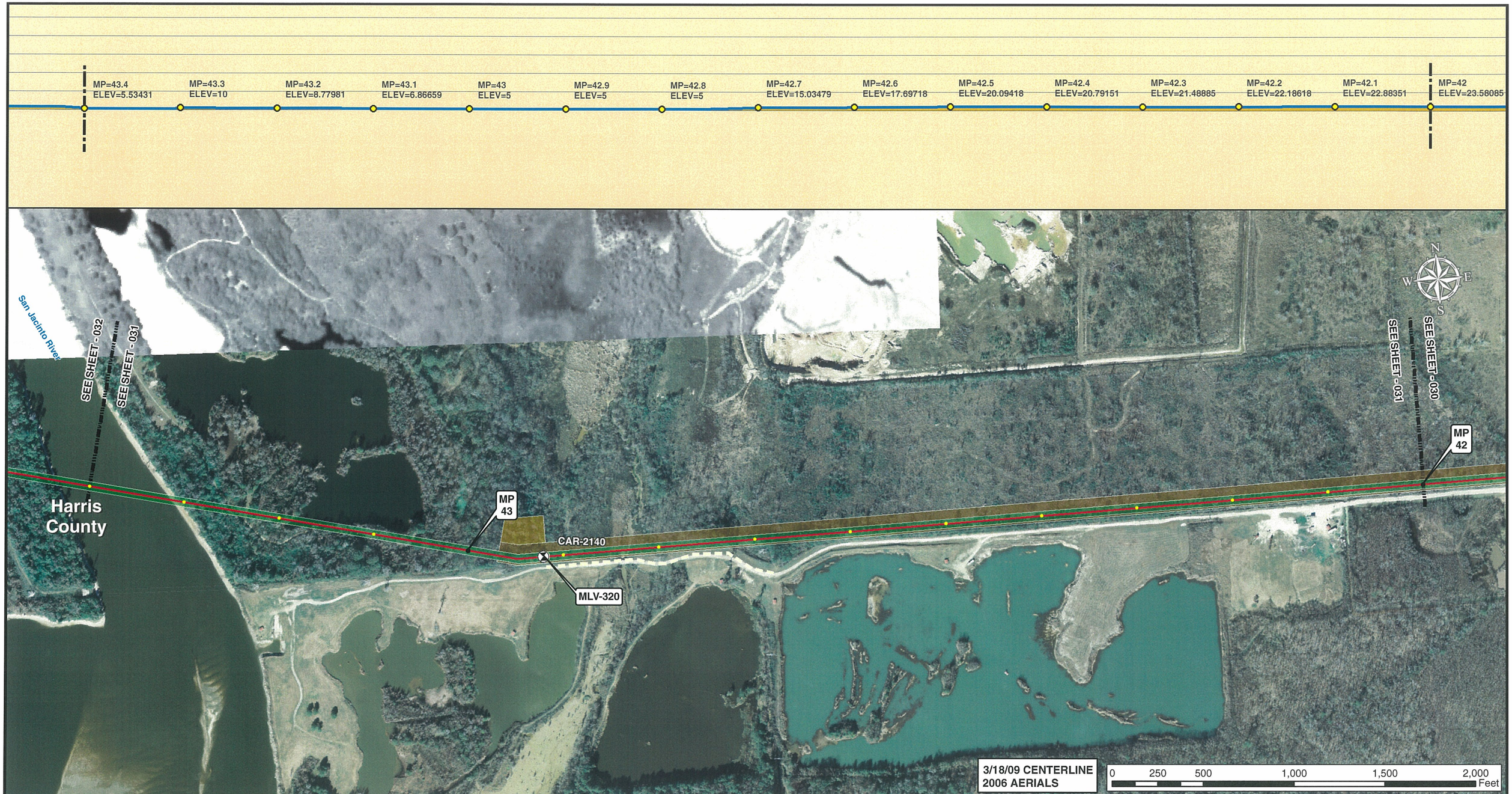
TransCanada
In business to deliver

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

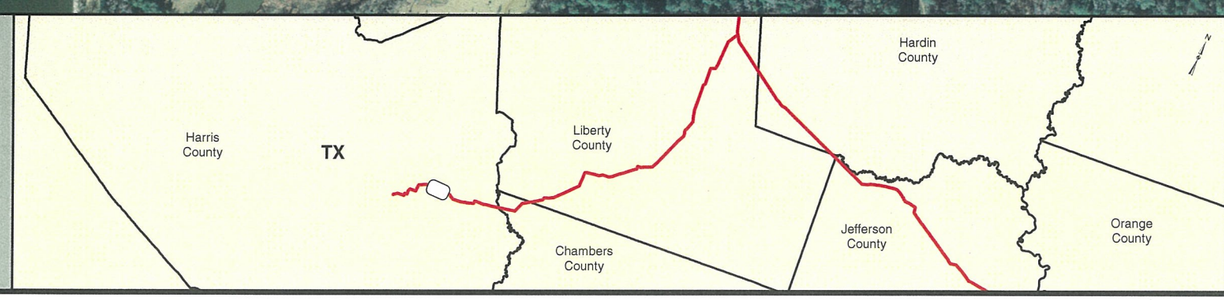
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 030-A | 030 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

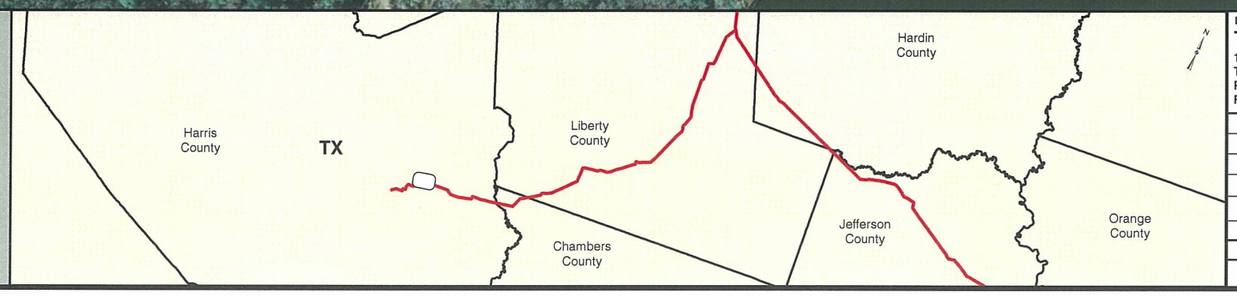
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 031-A | 031 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 032-A | 032 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE

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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

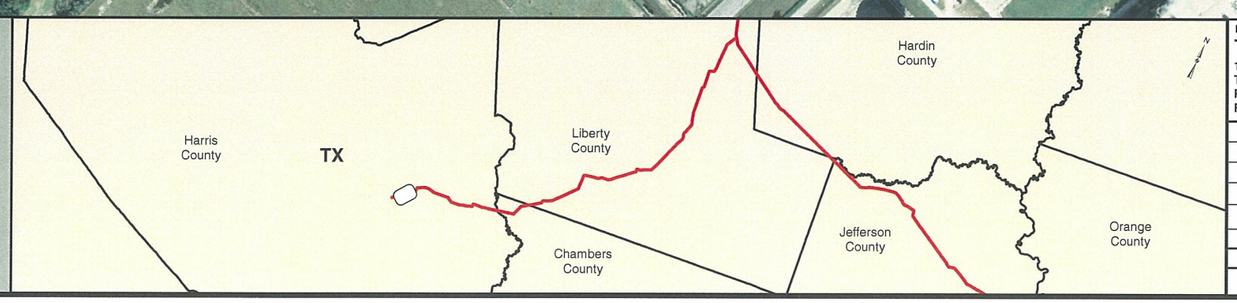
KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 033-A | 033 | 2 |

Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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

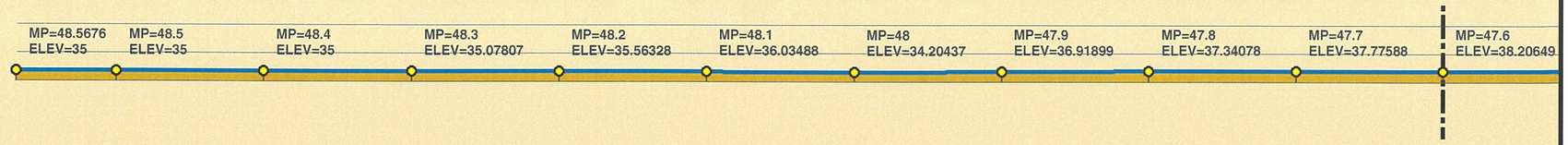
| NO. | REVISION | DATE |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

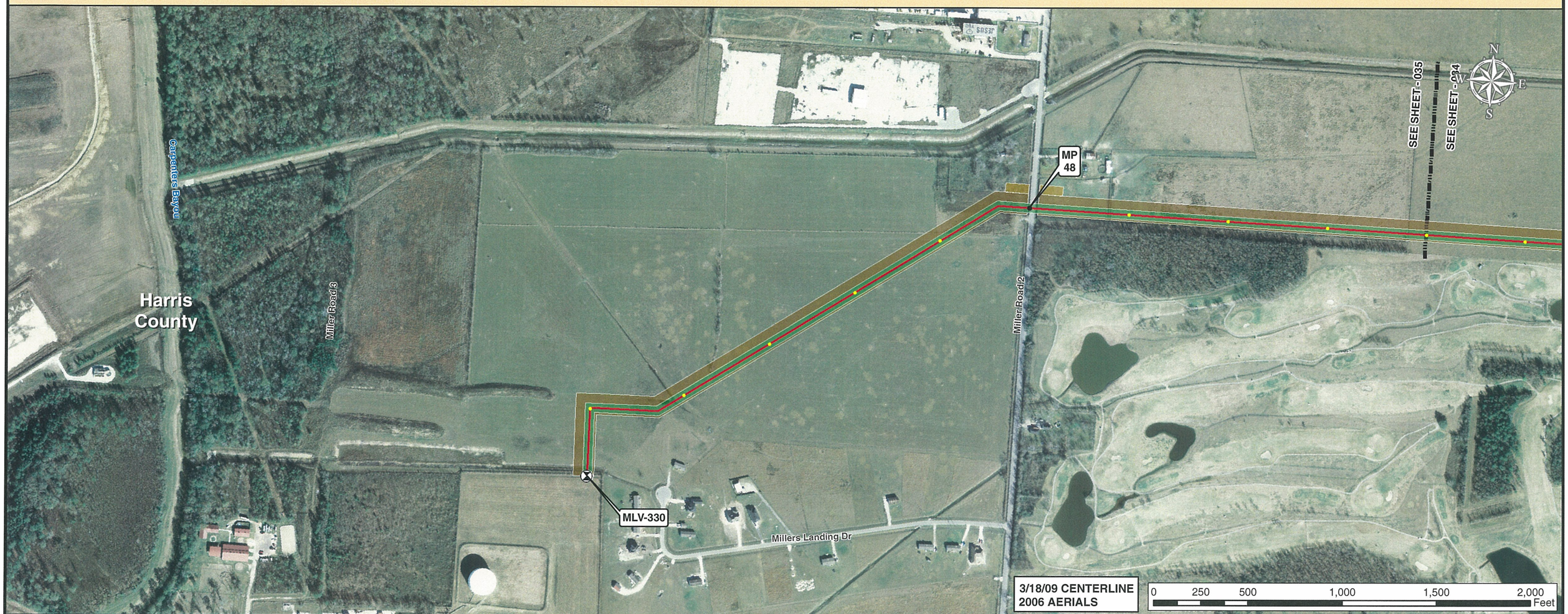
TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

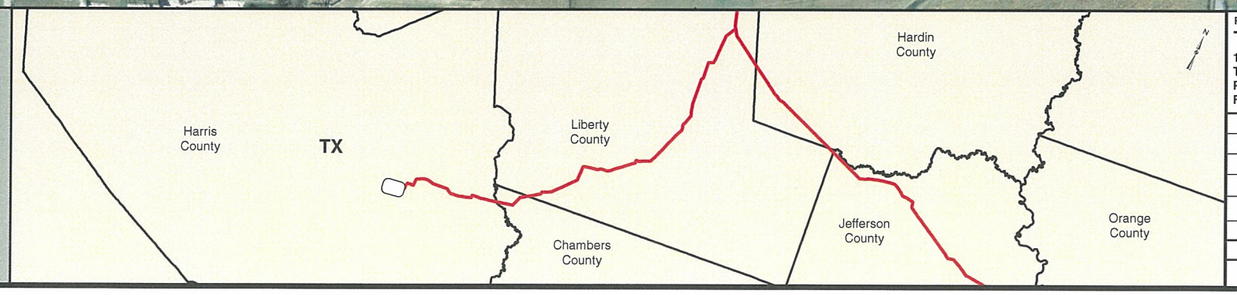
| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 034-A | 034 | 2 |




Legend

- MILE POST
- 0.1 MILE TICK MARK
- VALVE
- KEYSTONE XL PROJECT
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXTRA WORKSPACE
- ACCESS ROAD
- TRANSMISSION LINE
- PUMP STATION
- STAGING AREA
- PIPE YARD
- CONTRACTOR YARD
- WATER BODY
- WETLAND
- COUNTY LINE
- SECTION LINE




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 |
|---|---|---|
| | | |
| | | |
| 2 | ISSUED FOR DEIS COMMENT SUBMITTAL TO U.S. DEPT. OF STATE (3.18.09 CL) | 5.19.10 |
| 1 | ISSUED FOR SUPPLEMENTAL U.S. DEPT. OF STATE FILING (3.18.09 CL) | 7.6.09 |
| 0 | ISSUED FOR UNITED STATES DEPARTMENT OF STATE (7.31.08 CL) | 11.19.08 |

TransCanada
*In business to deliver*

KEYSTONE XL PROJECT
ROUTE SHEETS
HOUSTON LATERAL
HARRIS COUNTY, TEXAS

MAP PARAMETERS
PROJECTION: NAD83, UTM:15N
SCALE: 1:6,000 ; 1" = 500'

| DRAWN BY | CHECKED BY | APPROVED BY | PROJECT: | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|---|---|---|
| GS | SS | RG | 50388X | XL-48-LA-2002-P- 035-A | 035 | 2 |