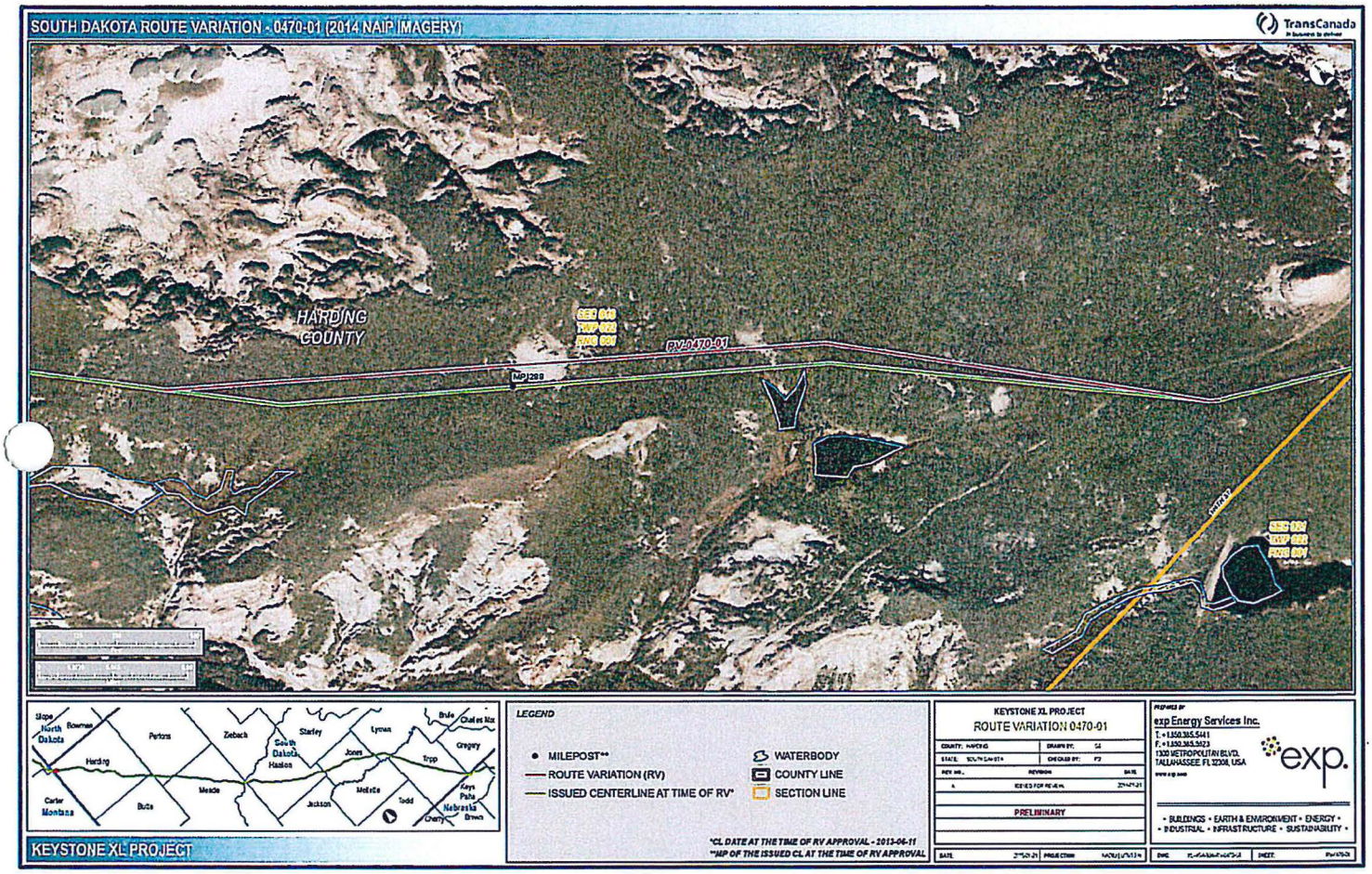
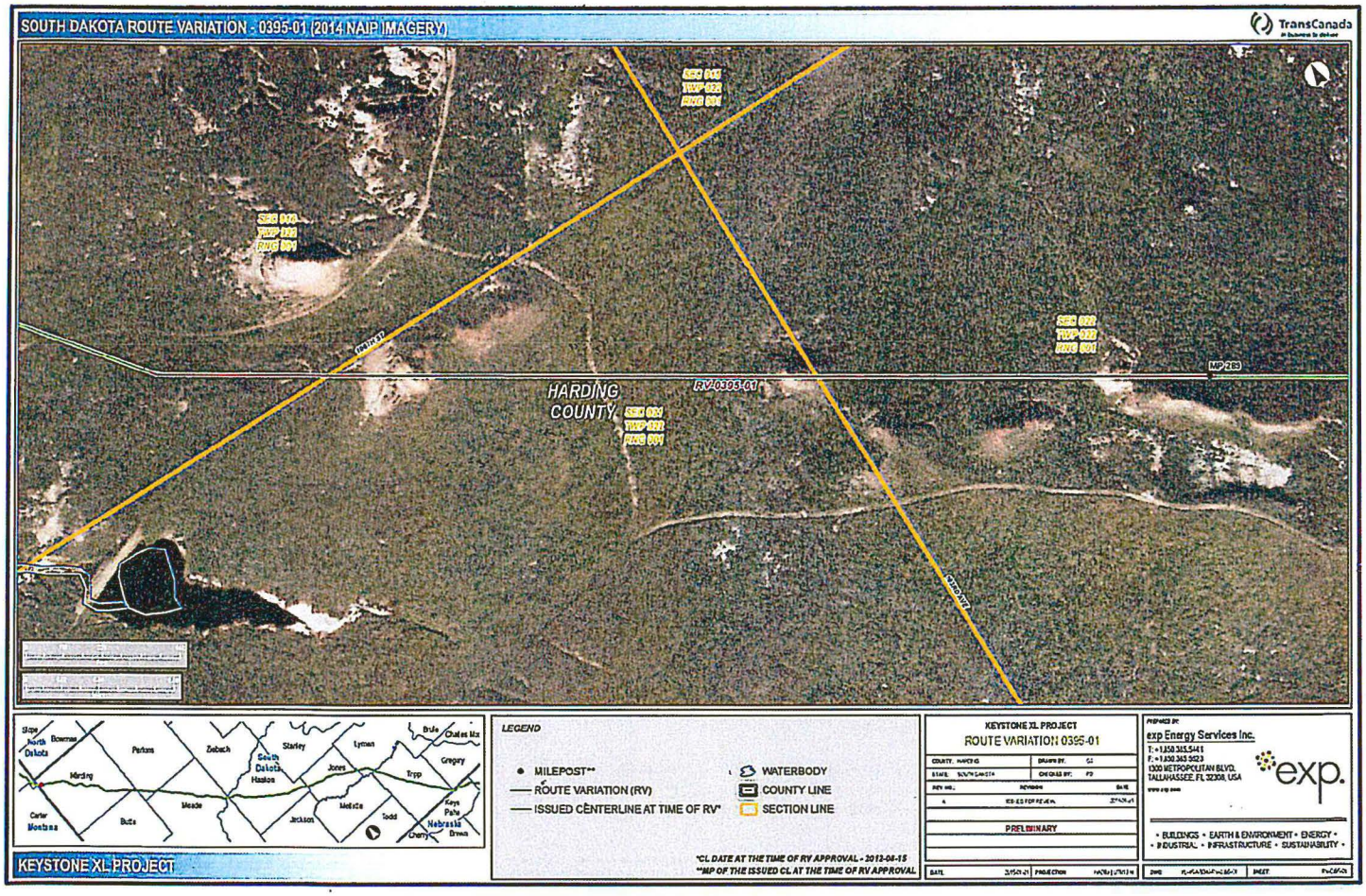
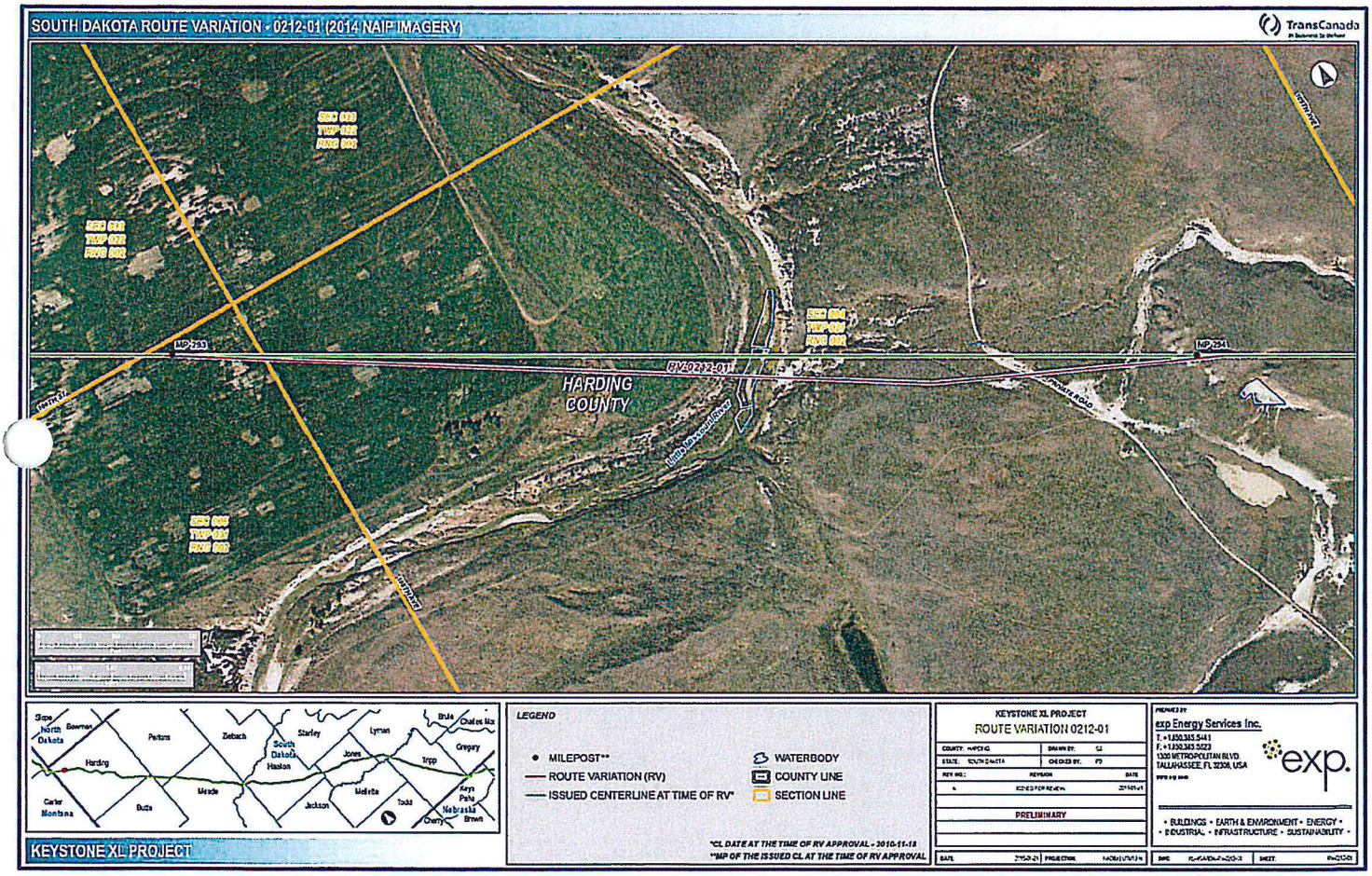


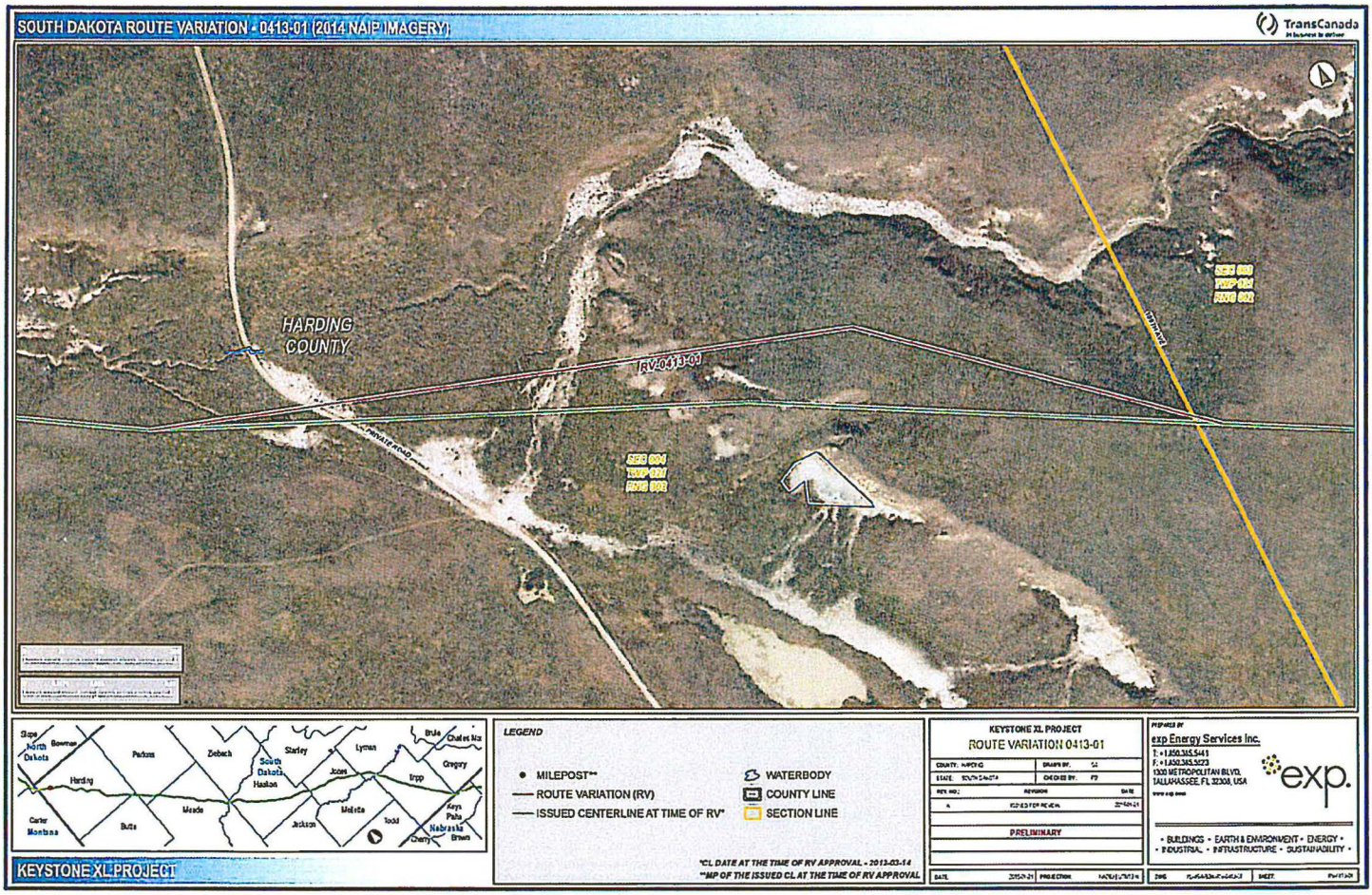
EXHIBIT

2013

KEYSTONE 0470


SOUTH DAKOTA ROUTE VARIATION - 0395-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV-0395-01
MP 283
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0395-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0212-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV0212-01
MP 253
MP 254
PROPOSED ROAD
LITTLE MISSOURI RIVER
NORTH 01
HARDING
SEC 003 TWP 022 RNG 002
SEC 010 TWP 022 RNG 002
SEC 004 TWP 022 RNG 002
SEC 009 TWP 021 RNG 002
Slope
North Dakota
Bowman
Perkins
Ziebach
Starley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Hyde
Harding
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0212-01
COUNTY: HARDING
DRAWN BY: SJ
STATE: SOUTH DAKOTA
CHECKED BY: FD
REV NO.: REVISION DATE
A ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5523
1320 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0413-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV0413-01
PRIVATE ROAD
SEC 004
TWP 021
RNG 002
Slope
North Dakota
Bowman
Harding
Perkins
Zeibach
Butte
Meade
Carter
Montana
Starley
South Dakota
Haakon
Jones
Lyman
Jackson
Mellette
Todd
Tripp
Brule
Charles Mix
Gregory
Keya Paha
Nebraska
Cherry
Brown
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LEGEND
MILEPOST**
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ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
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**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
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ROUTE VARIATION 0413-01
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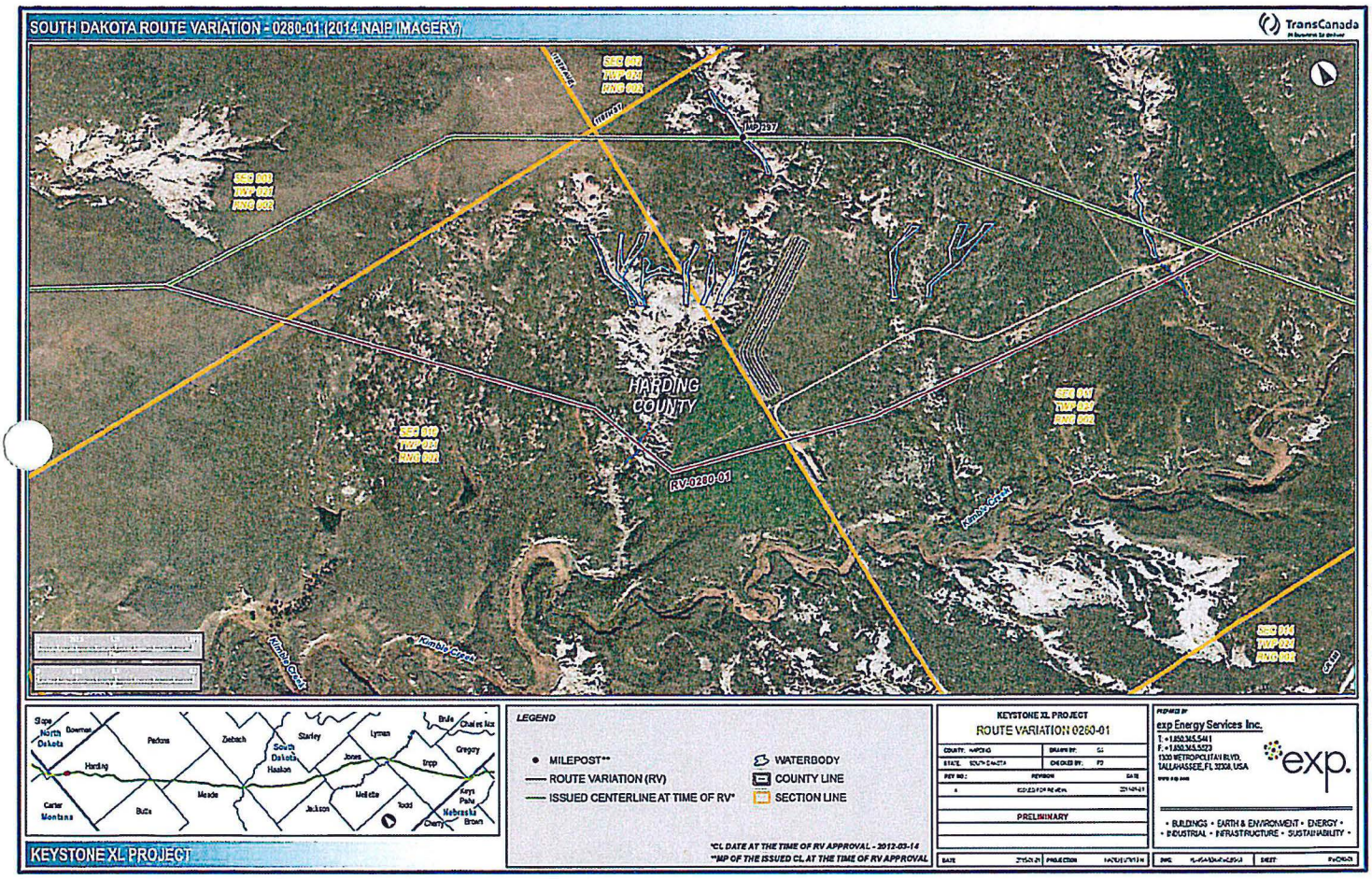
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0280-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV-0280-01
MP 287
Kamby Creek
Slope
North Dakota
Downer
Harding
Perkins
Zeibach
South Dakota
Haakon
Stanley
Jones
Lyman
Brule
Chamberlain
Gregory
Tripp
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
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ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
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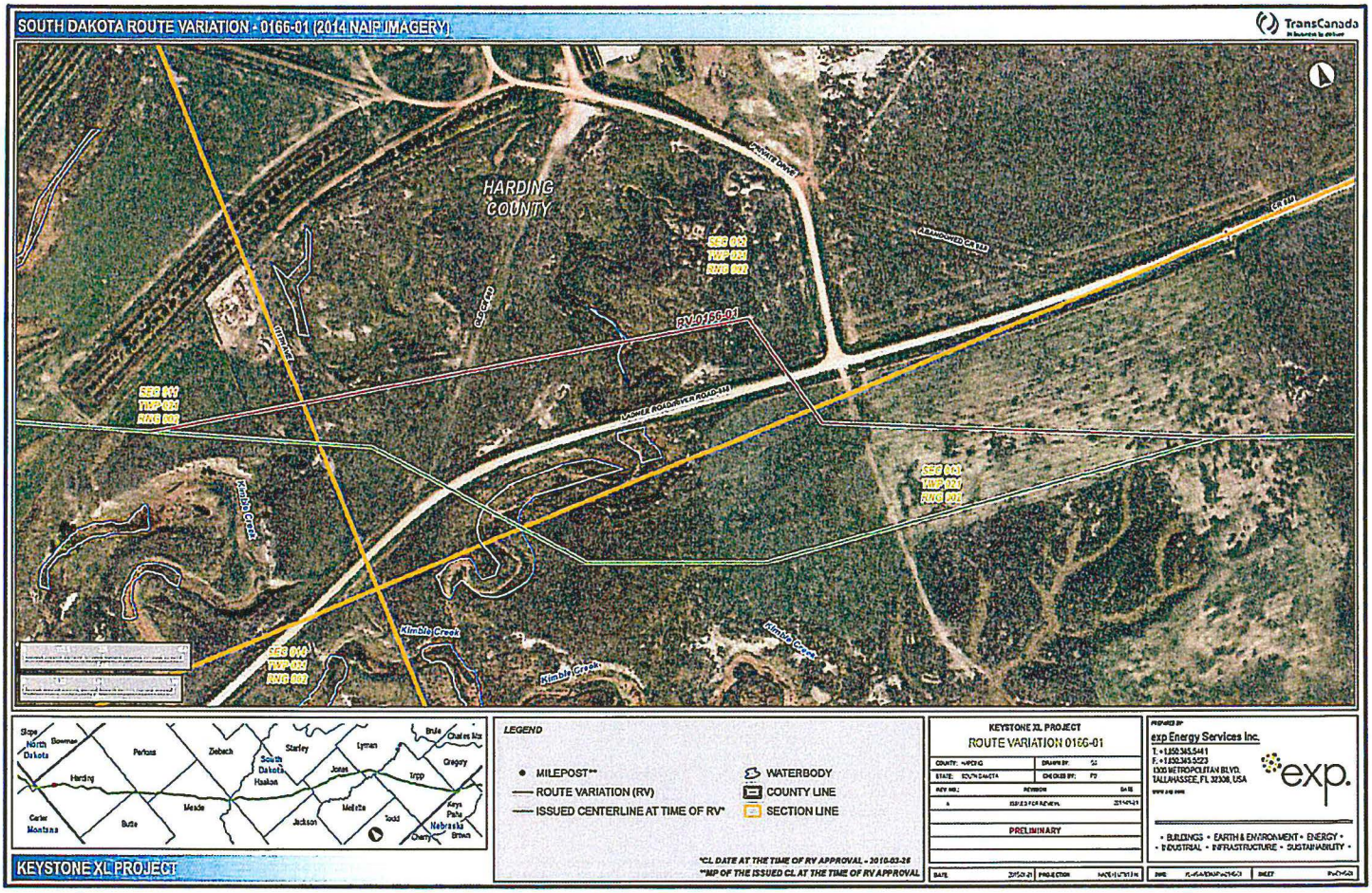
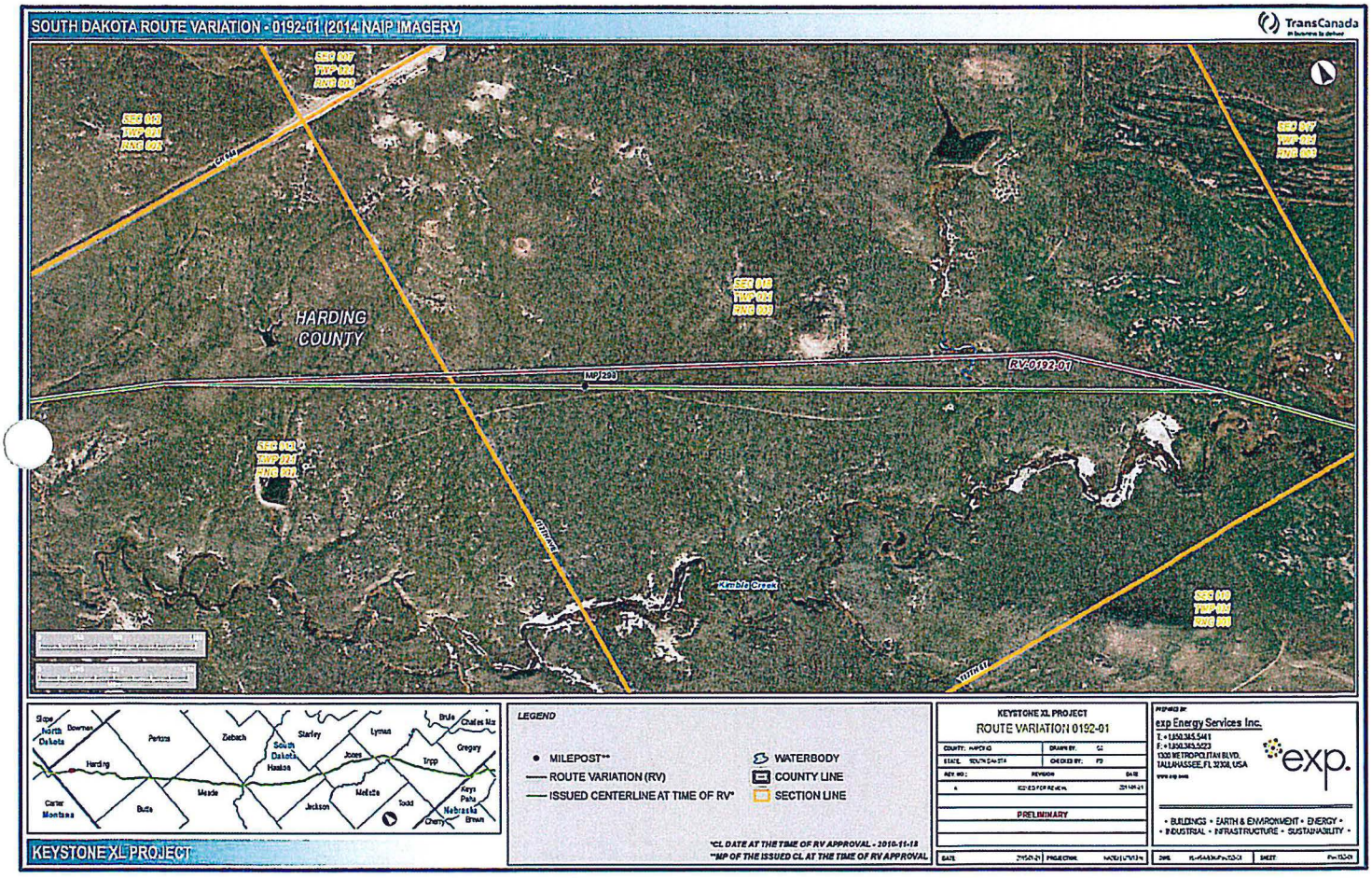
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0166-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV-0166-01
Kimble Creek
Kimble Creek
Kimble Creek
Kimble Creek
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Starley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Meade
Butte
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-03-26
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0166-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0192-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
MP 293
RV-0192-01
Kimble Creek
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0192-01
PRELIMINARY
exp Energy Services Inc.
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• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
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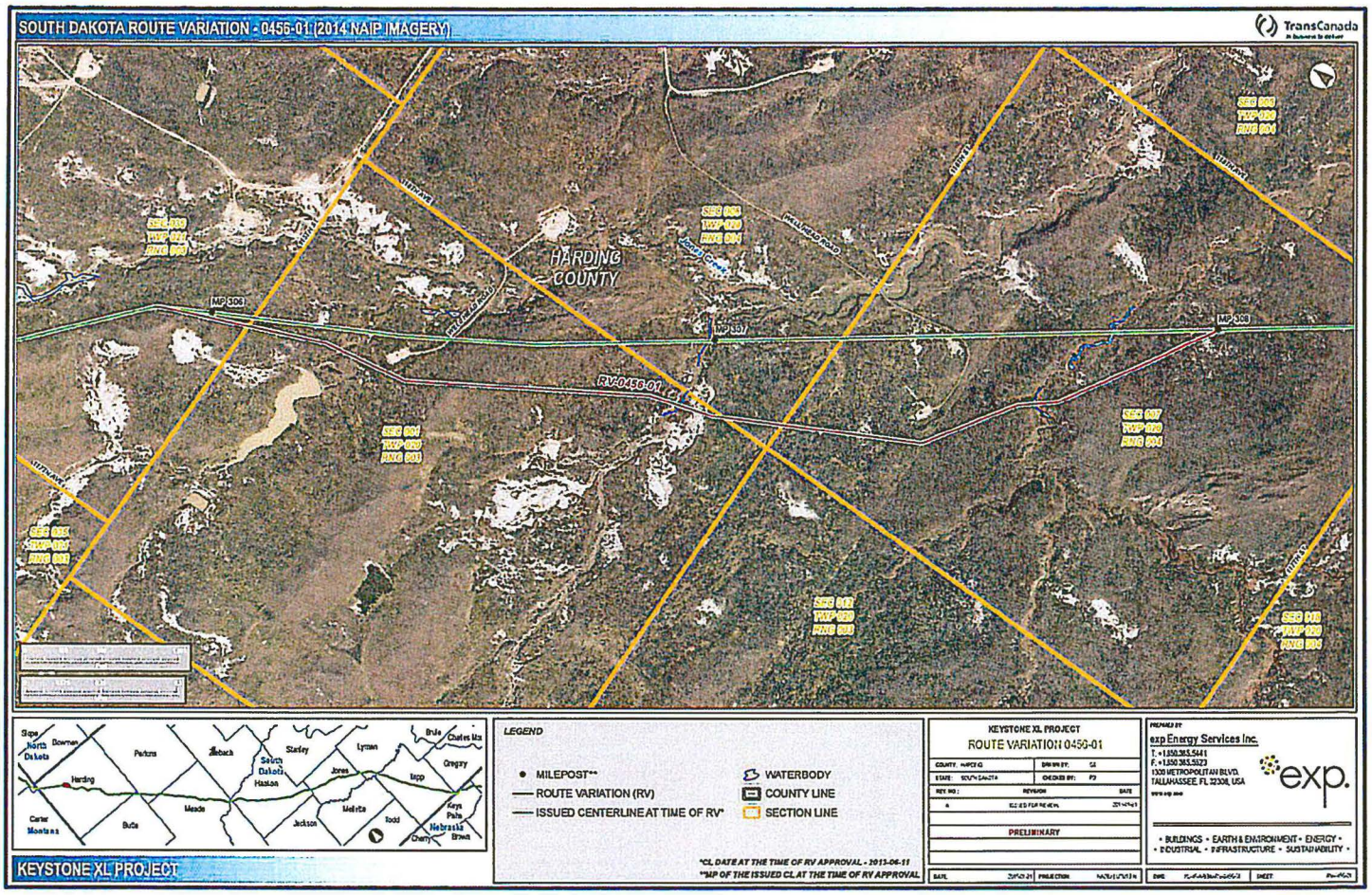
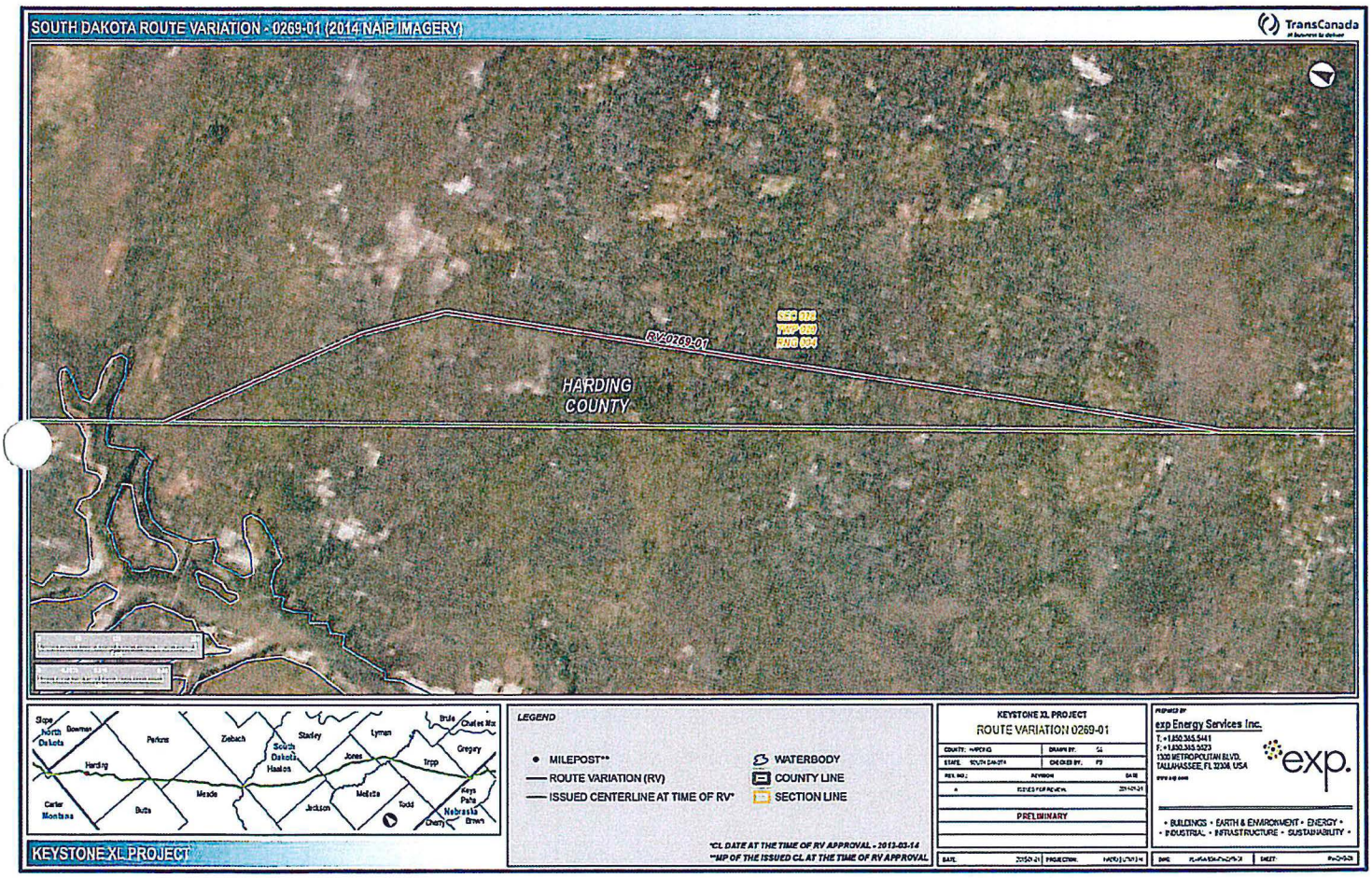

SOUTH DAKOTA ROUTE VARIATION - 0456-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
MP 306
MP 307
MP 308
RV-0456-01
SEC 004
TWP 020
RNG 004
SEC 005
TWP 020
RNG 004
SEC 006
TWP 020
RNG 004
SEC 007
TWP 020
RNG 004
SEC 008
TWP 020
RNG 004
SEC 009
TWP 020
RNG 004
SEC 010
TWP 020
RNG 004
SEC 011
TWP 020
RNG 004
SEC 012
TWP 020
RNG 004
SEC 013
TWP 020
RNG 004
SEC 014
TWP 020
RNG 004
SEC 015
TWP 020
RNG 004
SEC 016
TWP 020
RNG 004
SEC 017
TWP 020
RNG 004
SEC 018
TWP 020
RNG 004
Slope
North Dakota
Downen
Perkins
Butte
Meade
Harding
Carter
Montana
Allebach
Ziebach
Stanley
Haakon
Jones
Lyman
Jackson
Mellette
Todd
Tripp
Brule
Charles Mix
Gregory
Keya Paha
Nebraska
Brown
Cherry
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0456-01
PRELIMINARY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5223
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0269-01 (2014 NAIP IMAGERY)
TransCanada
RV-0269-01
HARDING COUNTY
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Jones
Brule
Charles Mix
Gregory
Tripp
Harding
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
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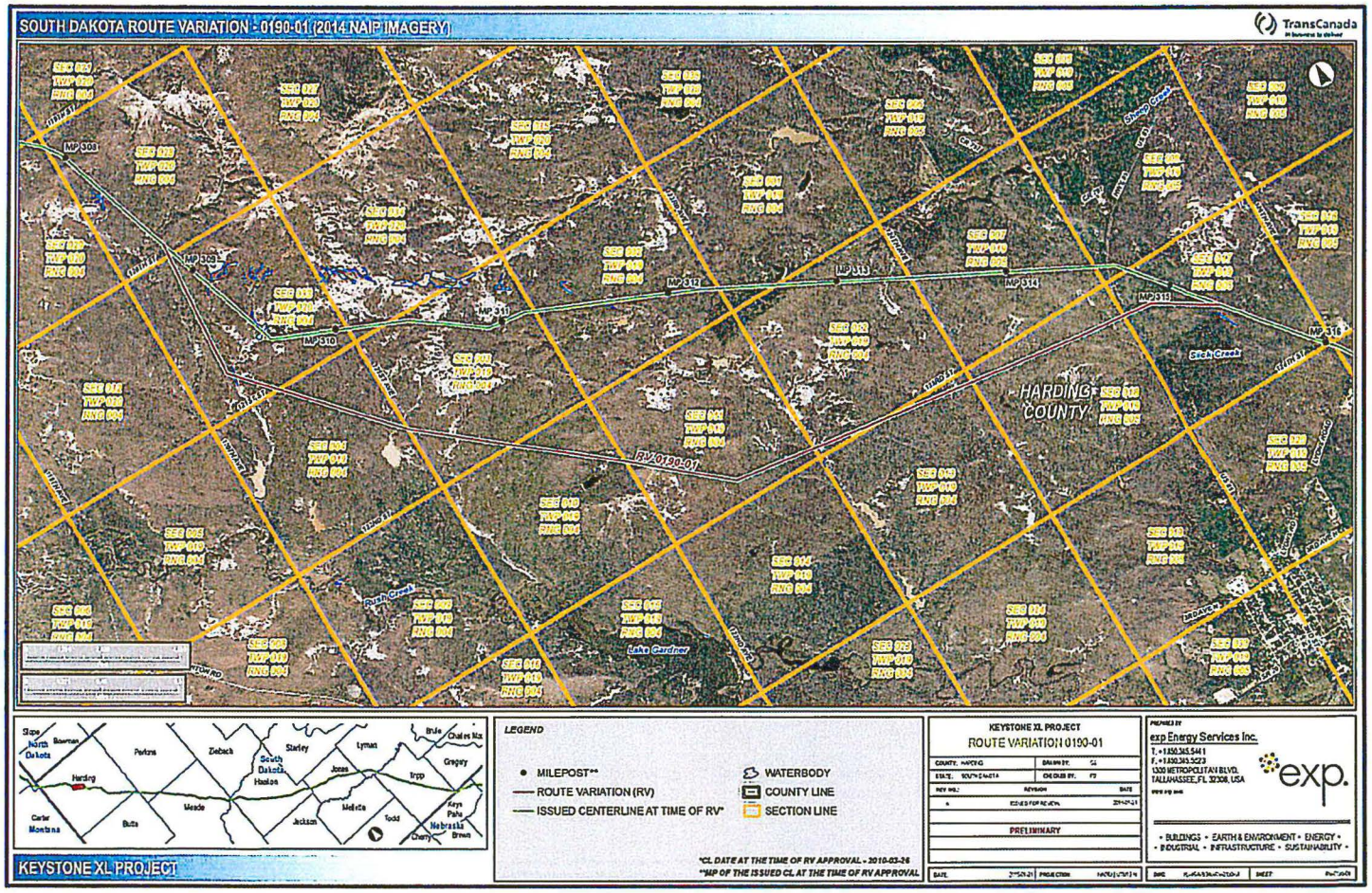
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0190-01 (2014 NAIP IMAGERY)
TransCanada
MP 309
MP 310
MP 311
MP 312
MP 313
MP 314
MP 315
RV 0190-01
HARDING COUNTY
Sheep Creek
Sitch Creek
Rush Creek
Lake Gardner
Harding
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Tripp
Jones
Haakon
Meade
Butte
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
Slope
North Dakota
Bowman
South Dakota
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
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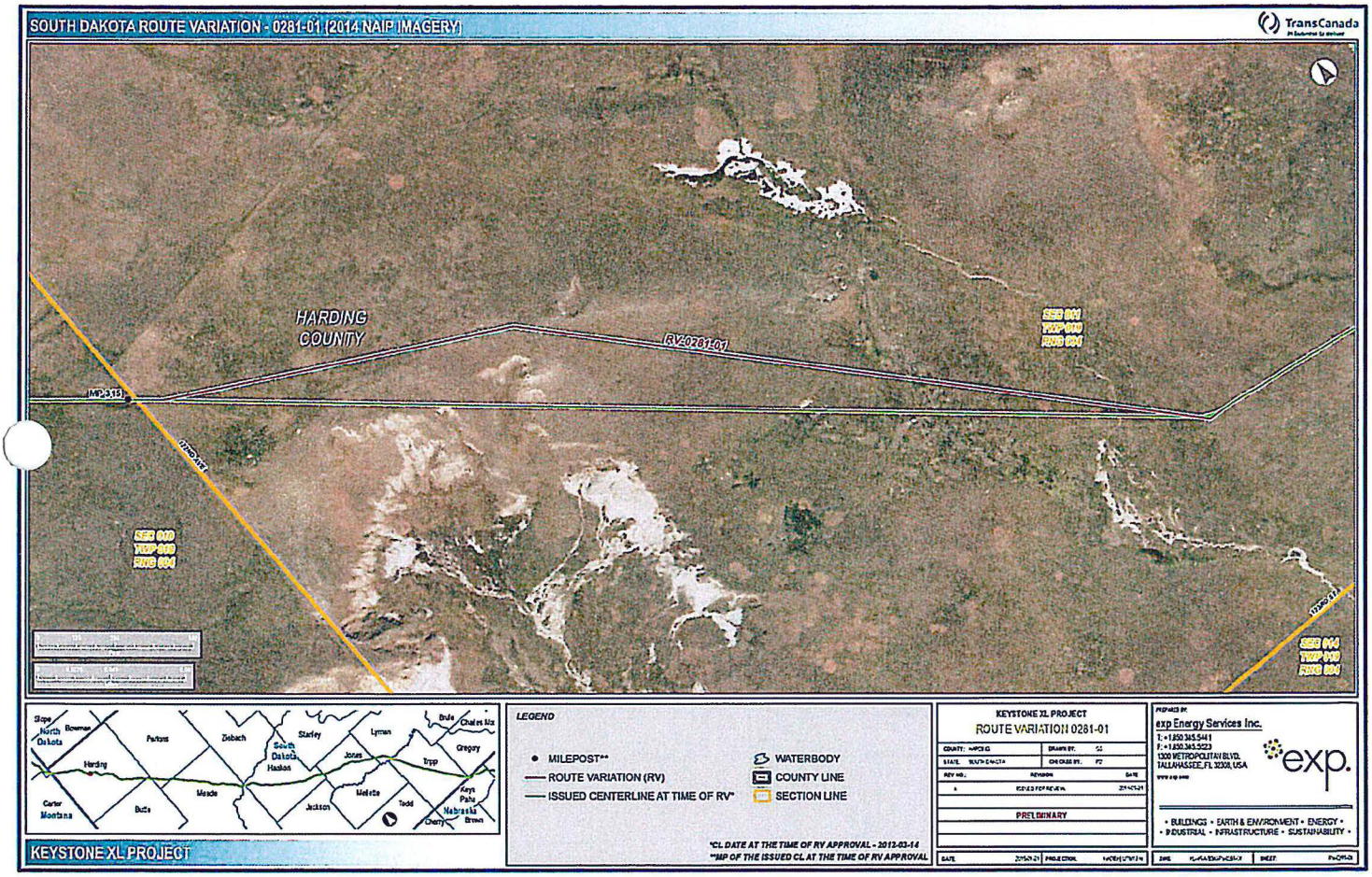
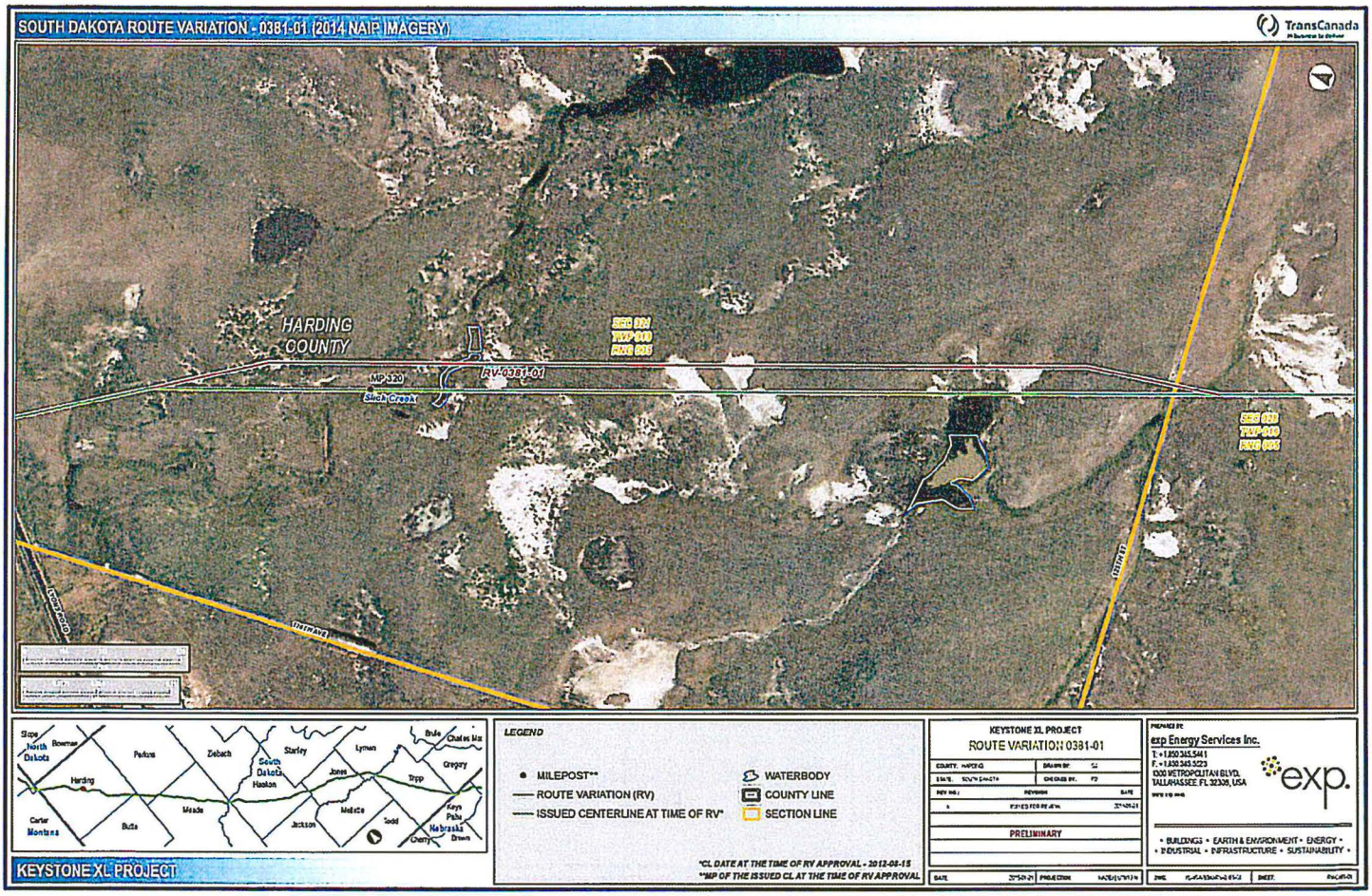
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0190-01
COUNTY: HARDING
STATE: SOUTH DAKOTA
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0281-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV-0281-01
MP 0.13
SEC 010
TWP 019
RNG 004
SEC 014
TWP 019
RNG 004
SEC 014
TWP 019
RNG 004
Slope
North Dakota
Bowman
Harding
Perkins
Zeibach
Meade
Butte
Carter
Montana
Stanley
South Dakota
Haakon
Jones
Jackson
Lyman
Mellette
Todd
Tripp
Brule
Charles Mix
Gregory
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0281-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0381-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
MP 320
Slick Creek
RV-0381-01
SEC 024
TWP 018
RNG 005
SEC 020
TWP 018
RNG 006
Slope
North Dakota
Bowman
Perkins
Zeibach
Starley
Lyman
Brule
Charles Mix
Harding
South Dakota
Haakon
Jones
Tripp
Gregory
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Bennett
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0381-01
PRELIMINARY
exp Energy Services Inc.
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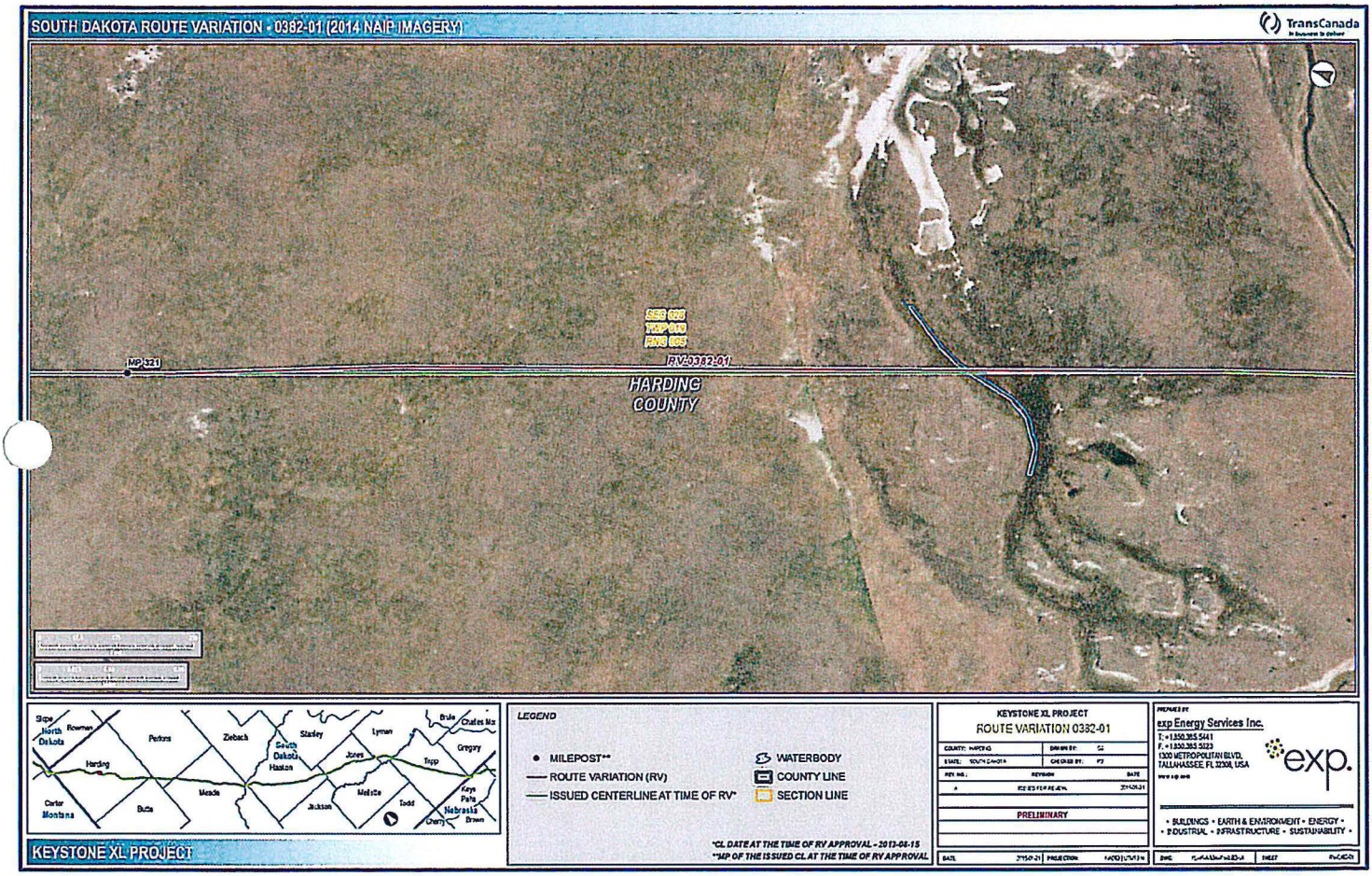
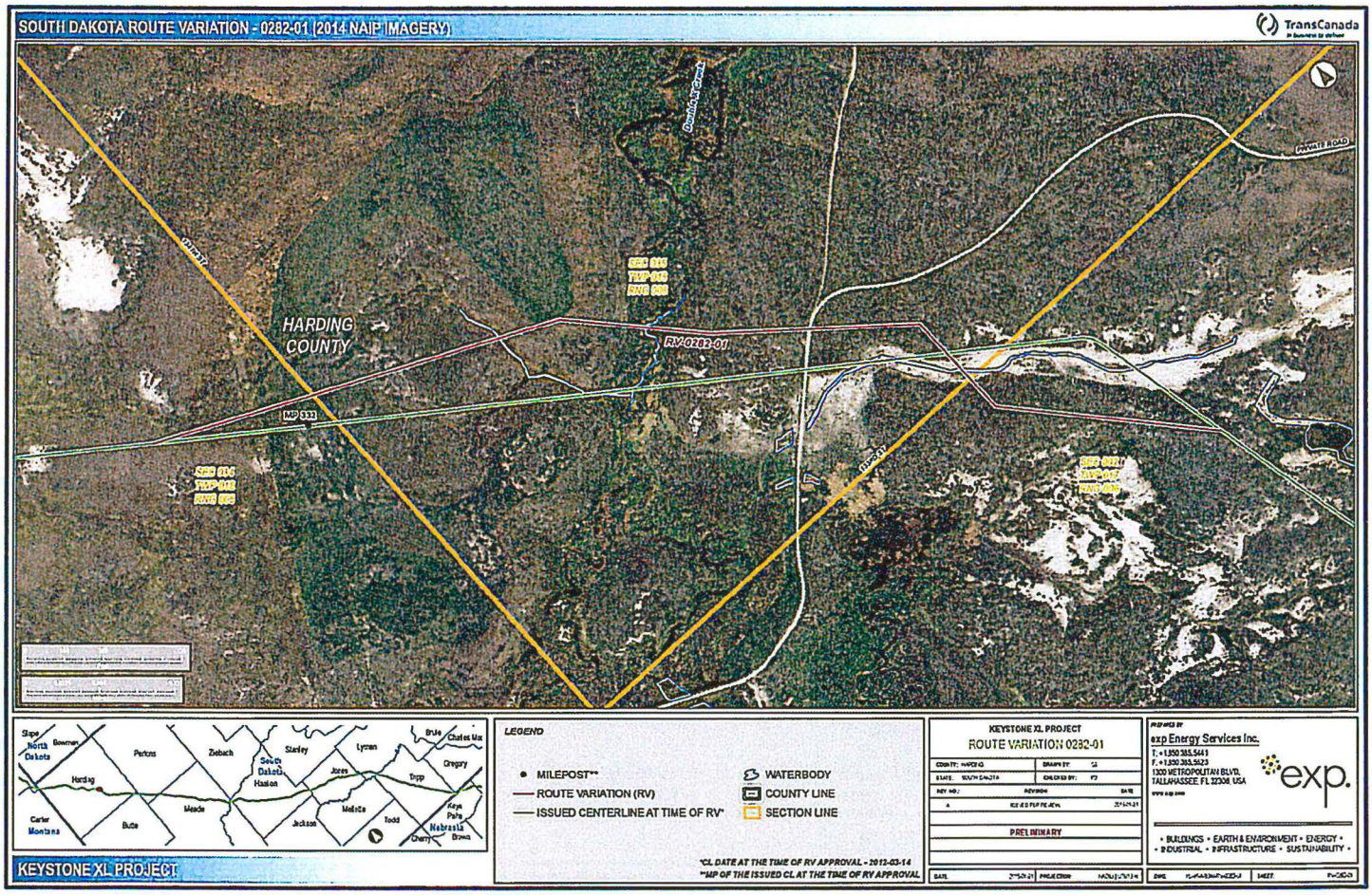
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0382-01 (2014 NAIP IMAGERY)
TransCanada
SEC 028
TWP 019
RNG 005
MP 321
RV 0382-01
HARDING COUNTY
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0382-01
COUNTY: HARDING
DRAWN BY: SZ
STATE: SOUTH DAKOTA
CHECKED BY: PZ
REV NO.:
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5023
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0282-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV-0282-01
MP 933
FARMER ROAD
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
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KEYSTONE XL PROJECT
ROUTE VARIATION 0282-01
PRELIMINARY
exp Energy Services Inc.
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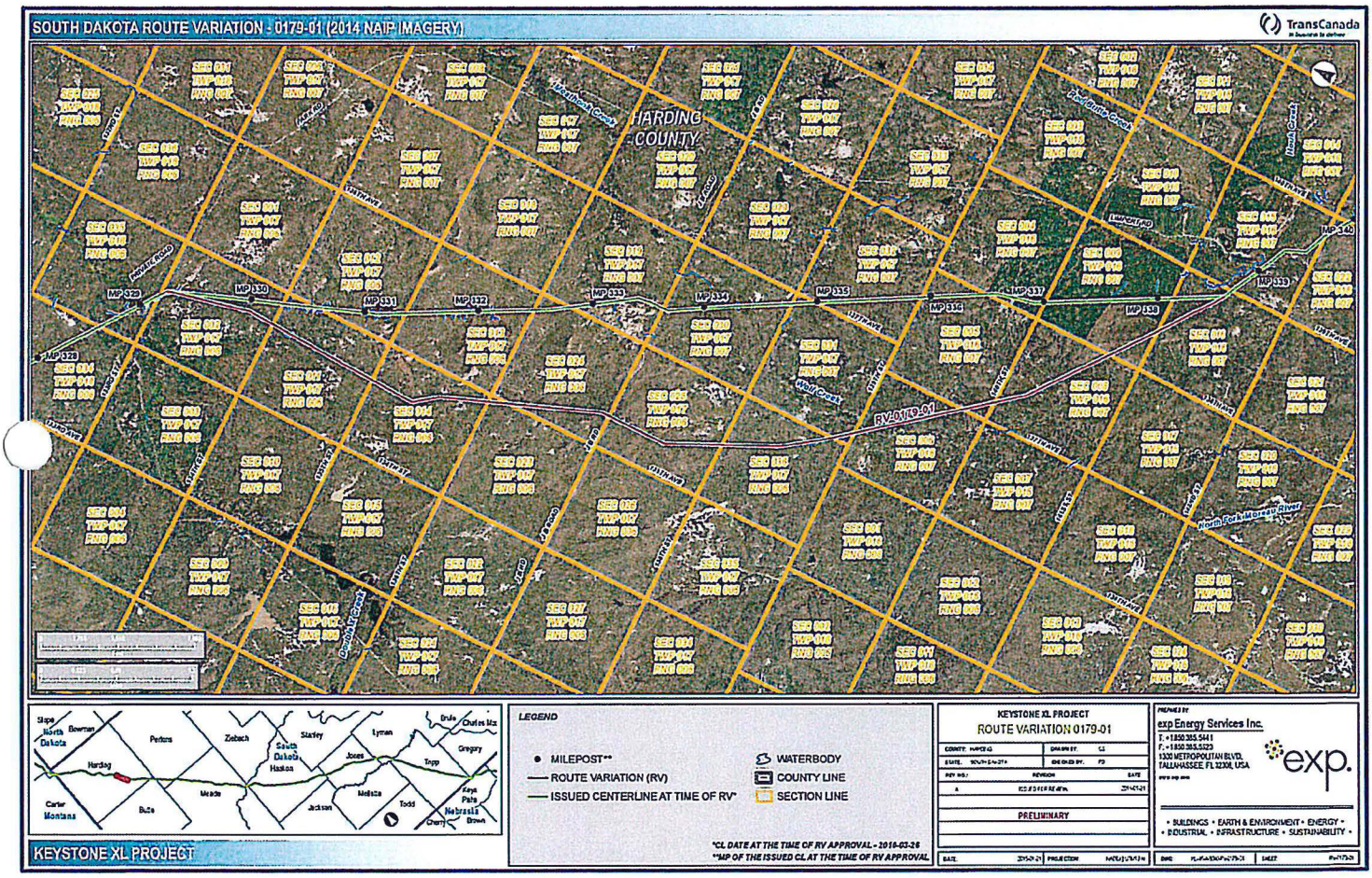
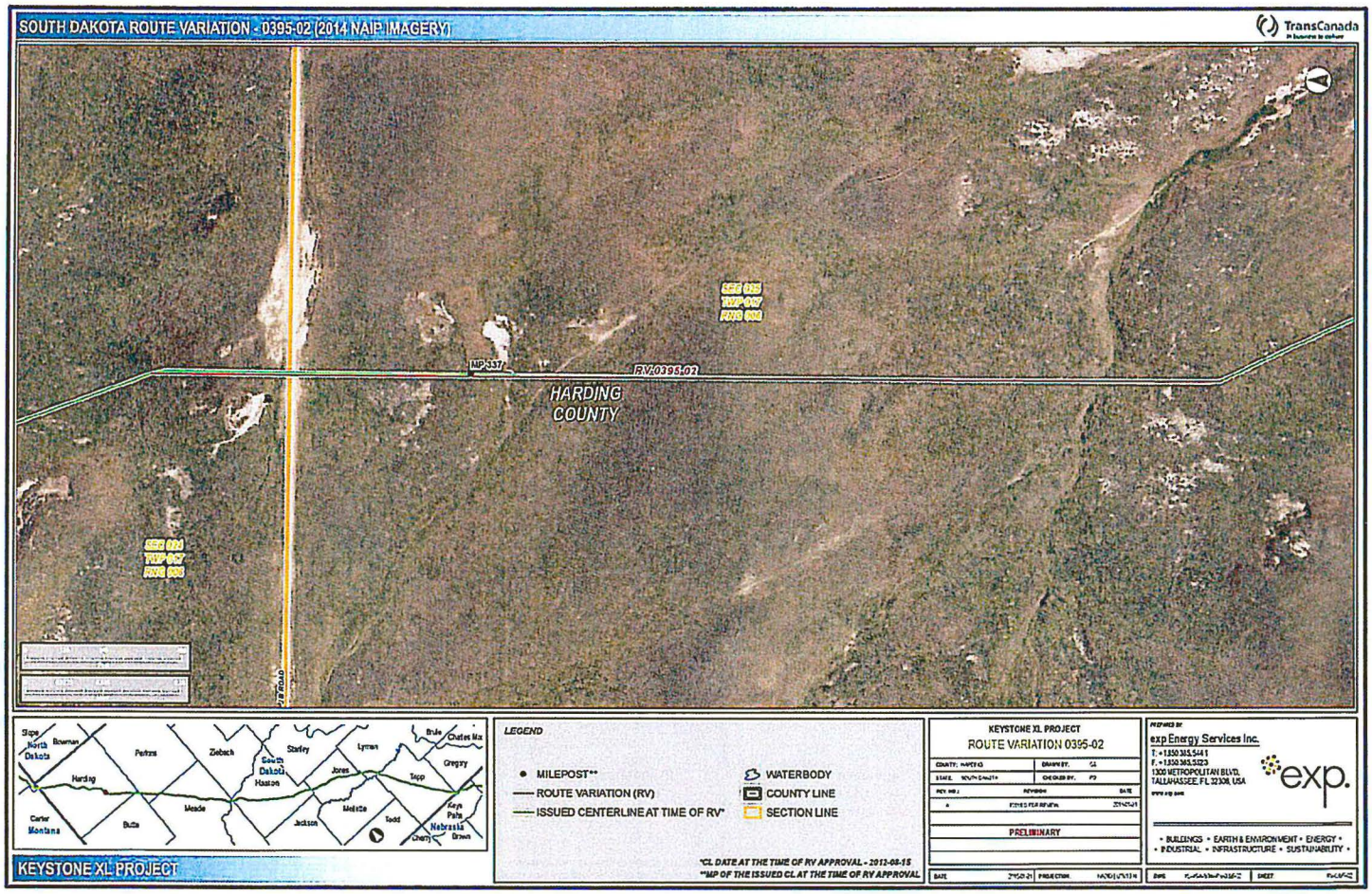
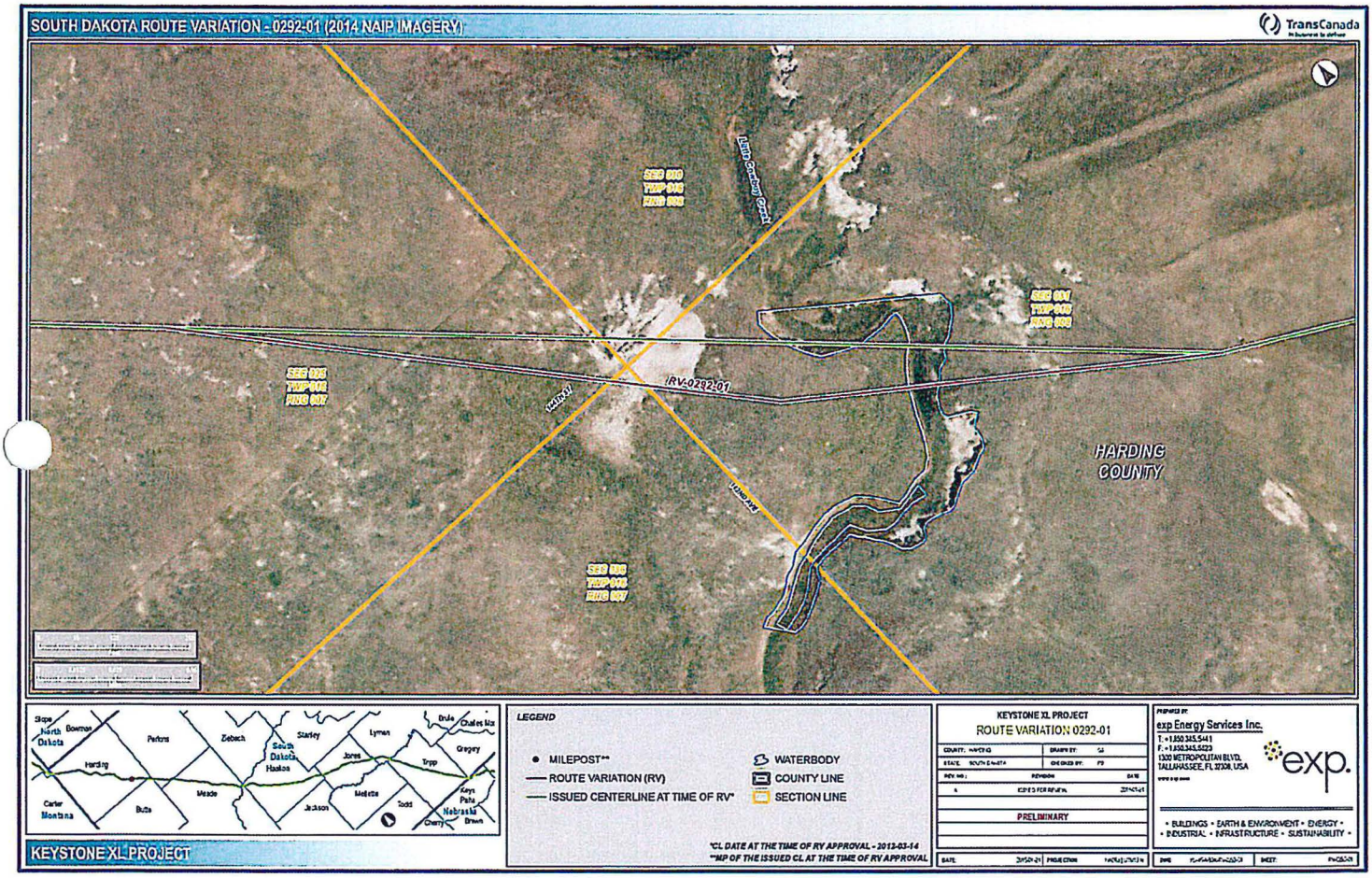
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0179-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV-0179-01
MP 329
MP 330
MP 331
MP 332
MP 333
MP 334
MP 335
MP 336
MP 337
MP 338
MP 339
MP 340
Slope
North Dakota
Bowman
Perkins
Ziebach
Dewey
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Butte
Meade
Haakon
Jones
Tripp
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Boyd
Cherry
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2016-03-28
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0179-01
PRELIMINARY
exp Energy Services Inc.
T: +1850.385.5441
F: +1850.385.5323
1320 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0395-02 (2014 NAIP IMAGERY)
TransCanada
MP 337
RV 0395-02
HARDING COUNTY
SEC 025
TWP 017
RNG 008
SEC 024
TWP 017
RNG 008
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0395-02
PRELIMINARY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5123
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0292-01 (2014 NAIP IMAGERY)
TransCanada
SEC 010
TWP 018
RNG 008
LBTD Section Grid
SEC 001
TWP 018
RNG 008
SEC 005
TWP 018
RNG 007
RV-0292-01
HARDING COUNTY
SEC 006
TWP 018
RNG 007
Slope
North Dakota
Bowman
Perkins
Zeibach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
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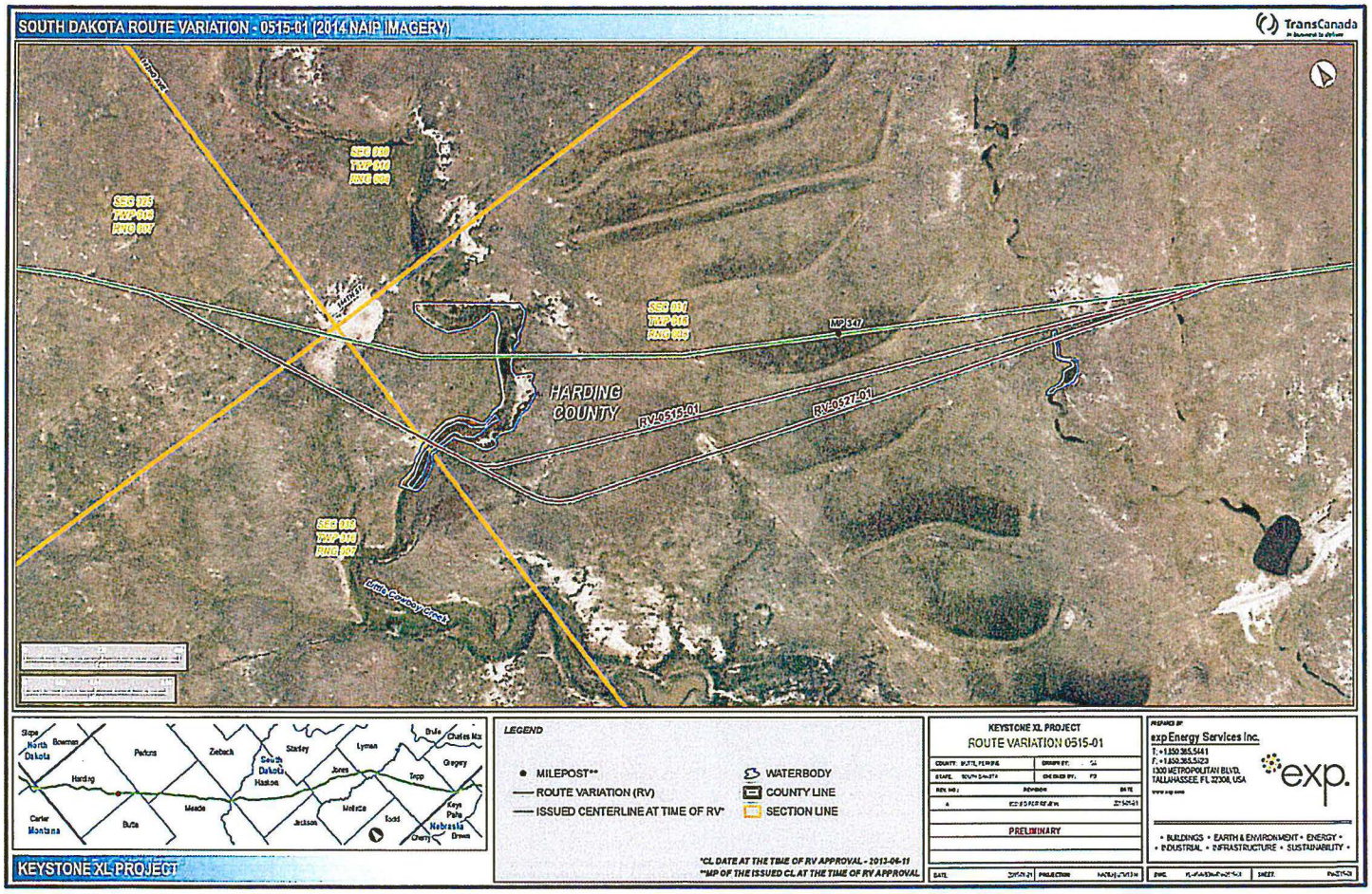
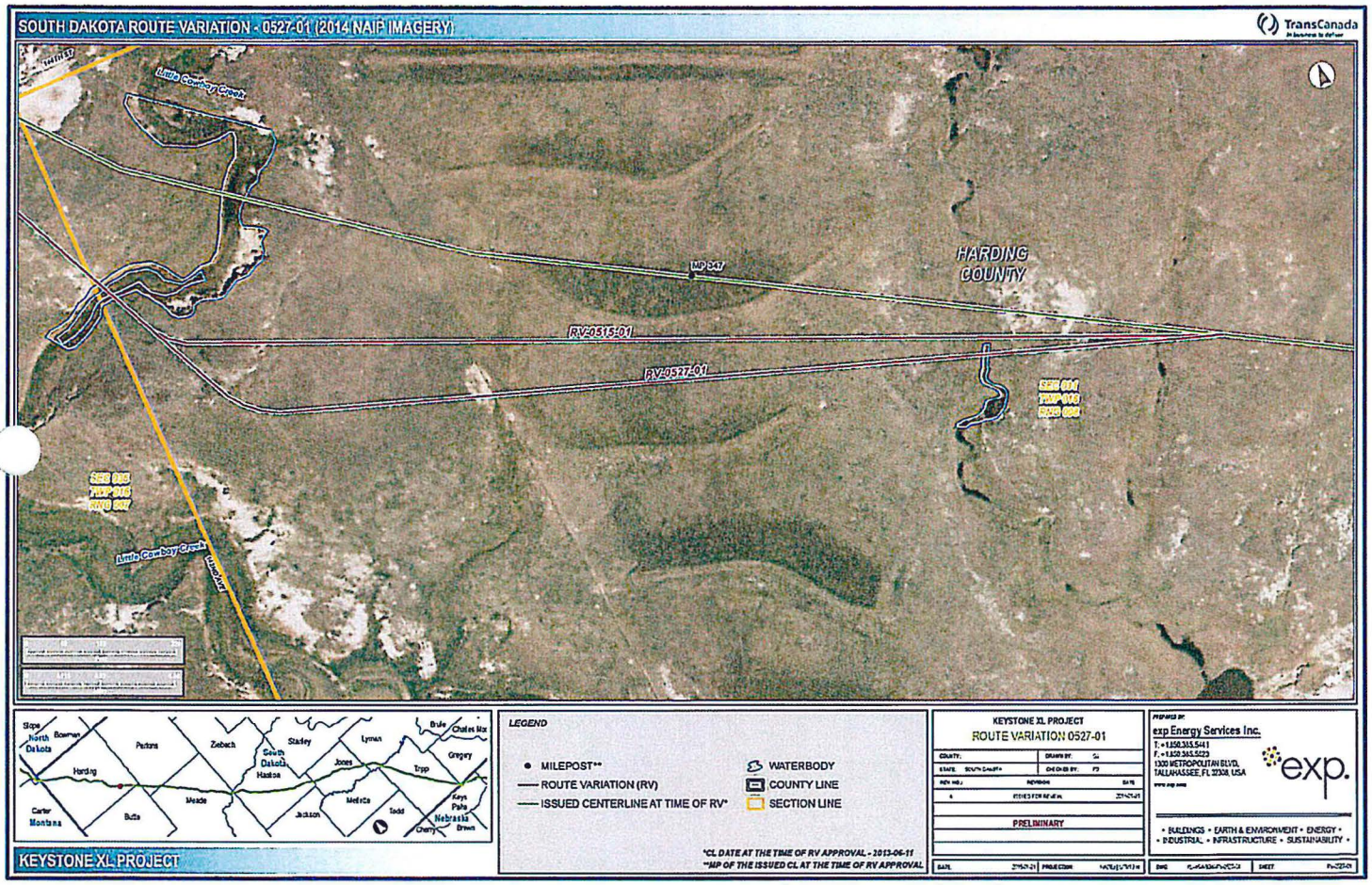
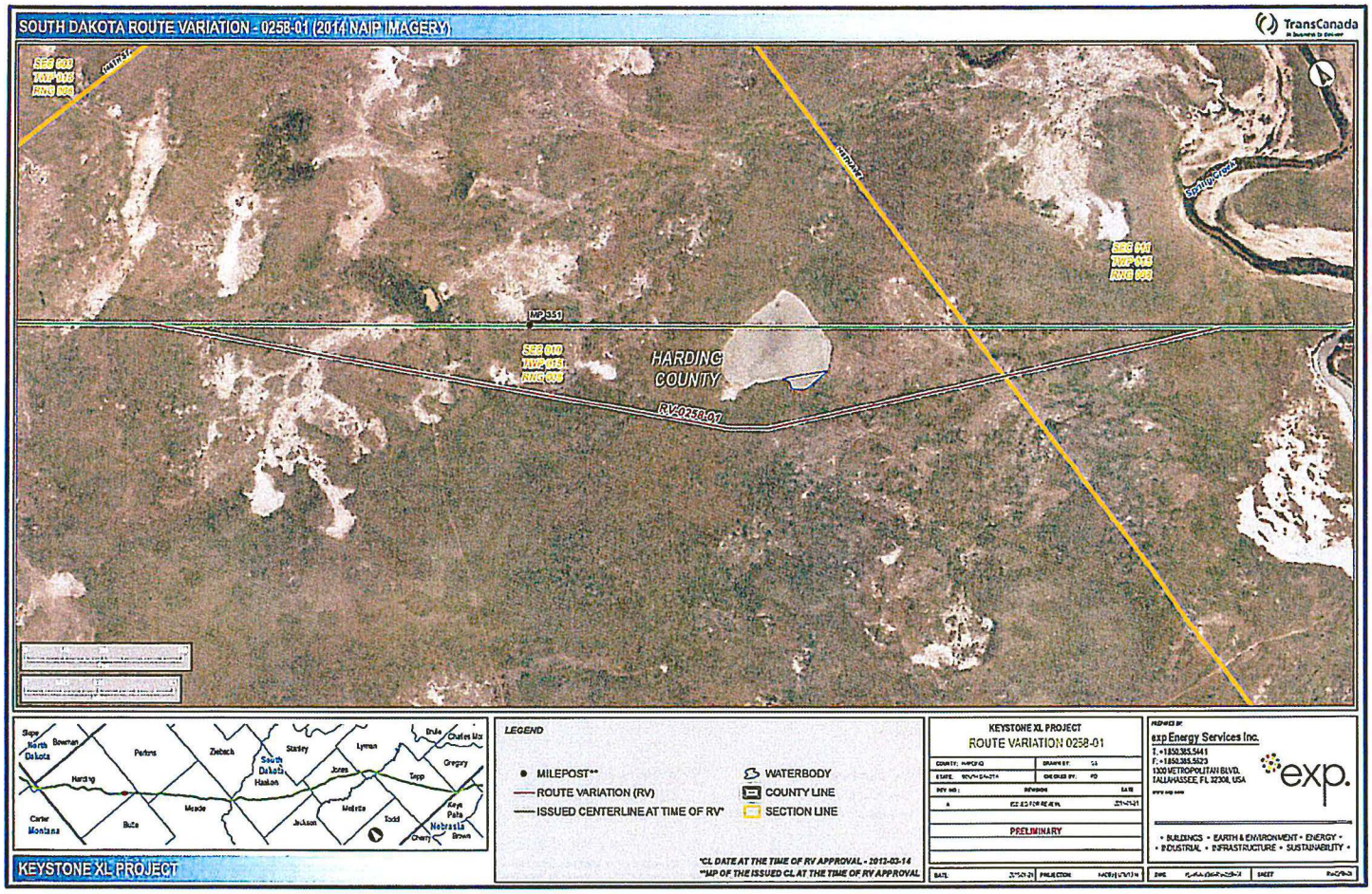
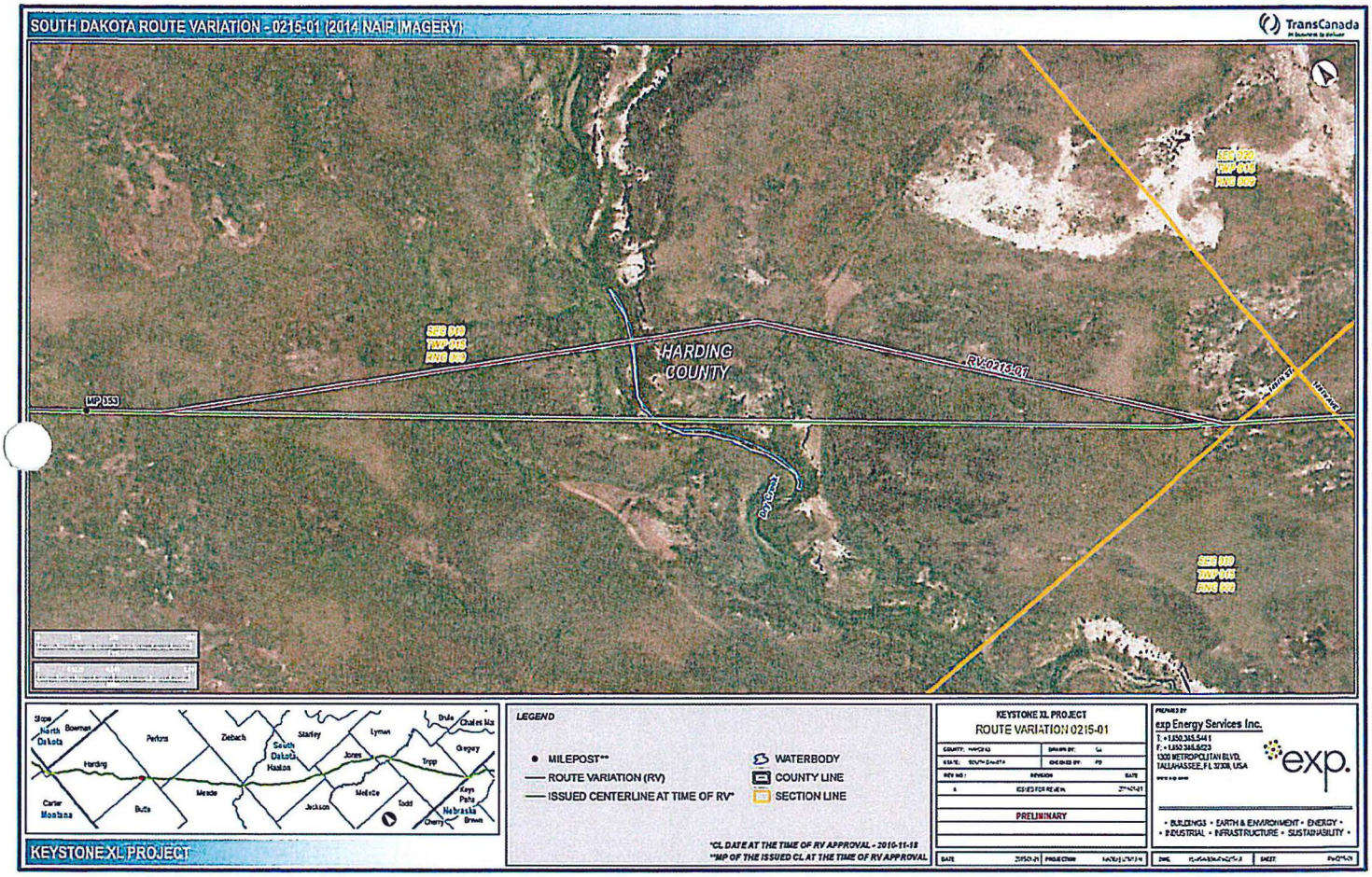
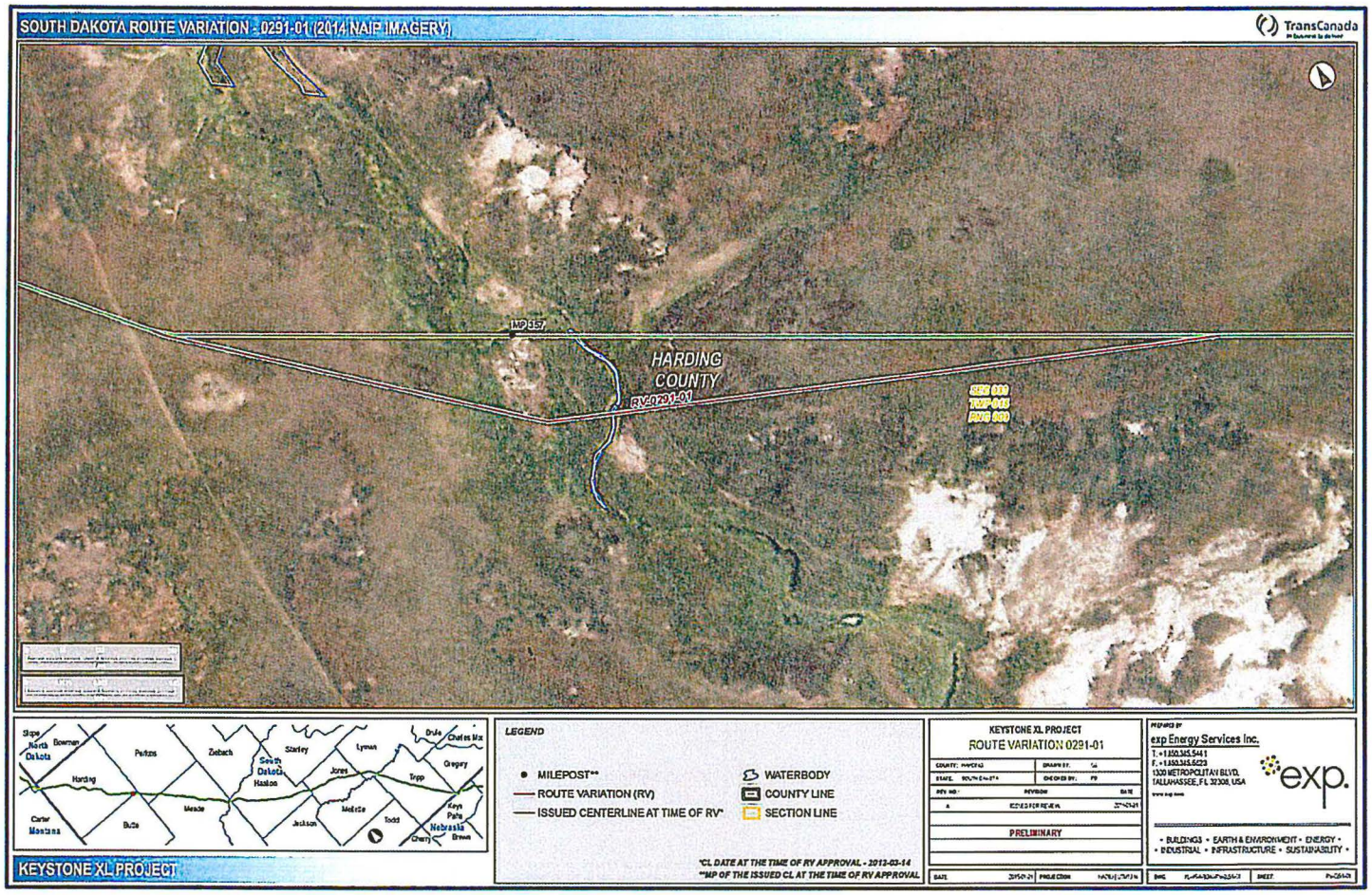
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0292-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

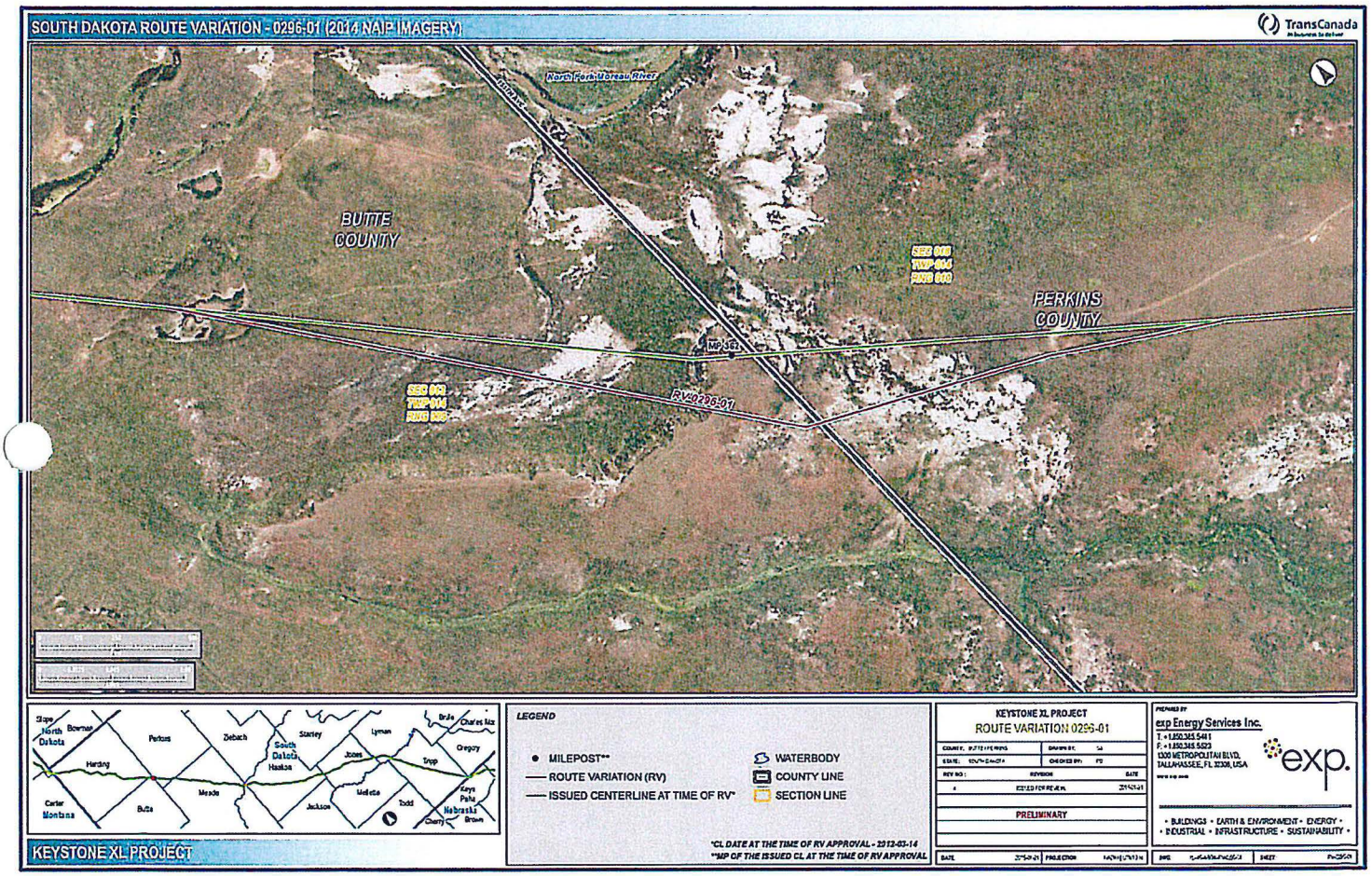

SOUTH DAKOTA ROUTE VARIATION - 0515-01 (2014 NAIP IMAGERY)
TransCanada
SEC 025
TWP 018
RNG 007
SEC 018
TWP 018
RNG 006
SEC 017
TWP 018
RNG 006
MP 547
HARDING COUNTY
RV-0515-01
RV-0527-01
SEC 008
TWP 017
RNG 007
Little Cheyenne Creek
Slope
North Dakota
Bowman
Perkins
Zeebach
South Dakota
Haakon
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0515-01
PRELIMINARY
PREPARED BY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5420
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

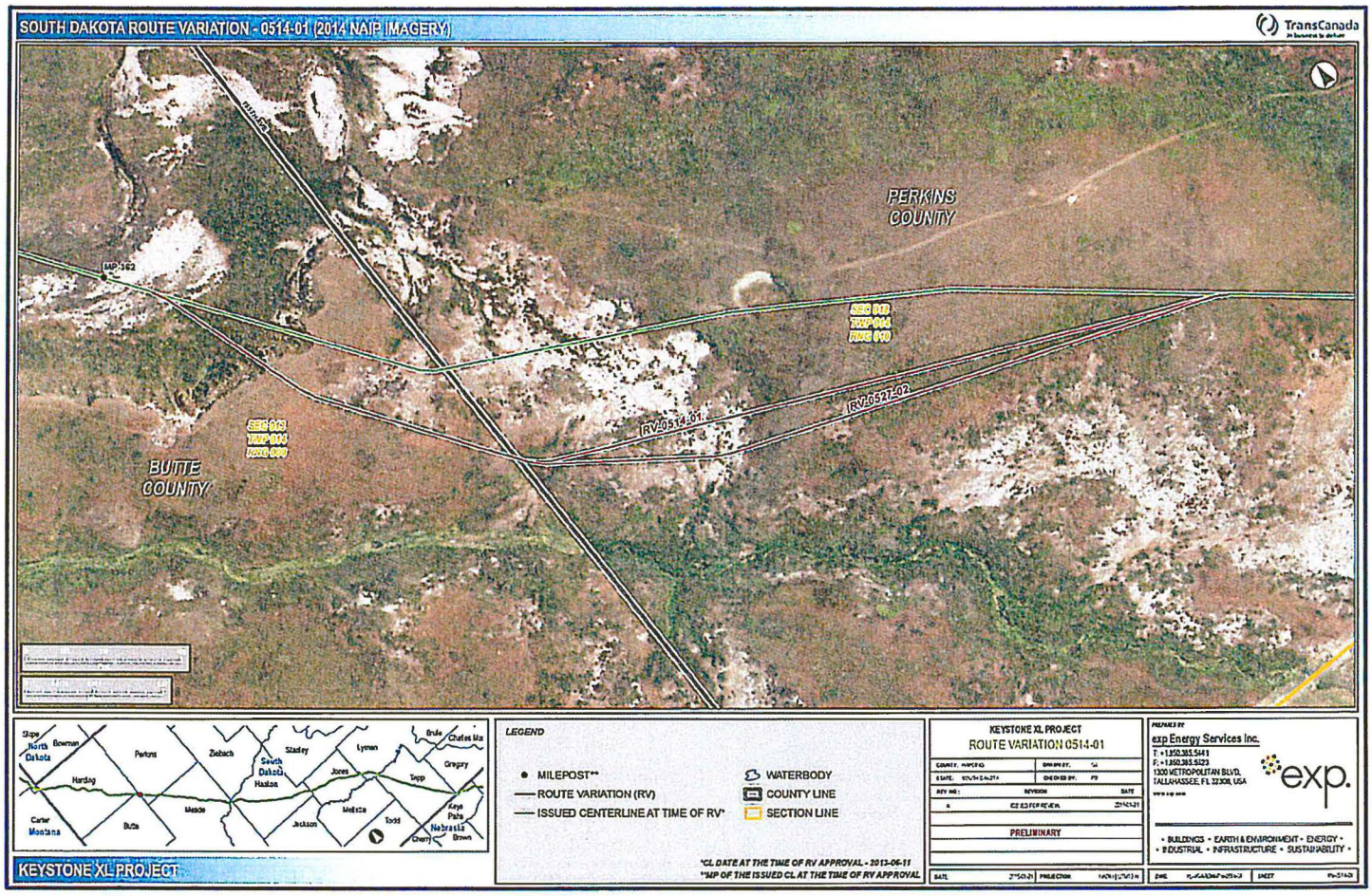

SOUTH DAKOTA ROUTE VARIATION - 0527-01 (2014 NAIP IMAGERY)
TransCanada
Little Cowboy Creek
HARDING COUNTY
MP 547
RV-0515-01
RV-0527-01
Little Cowboy Creek
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0527-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

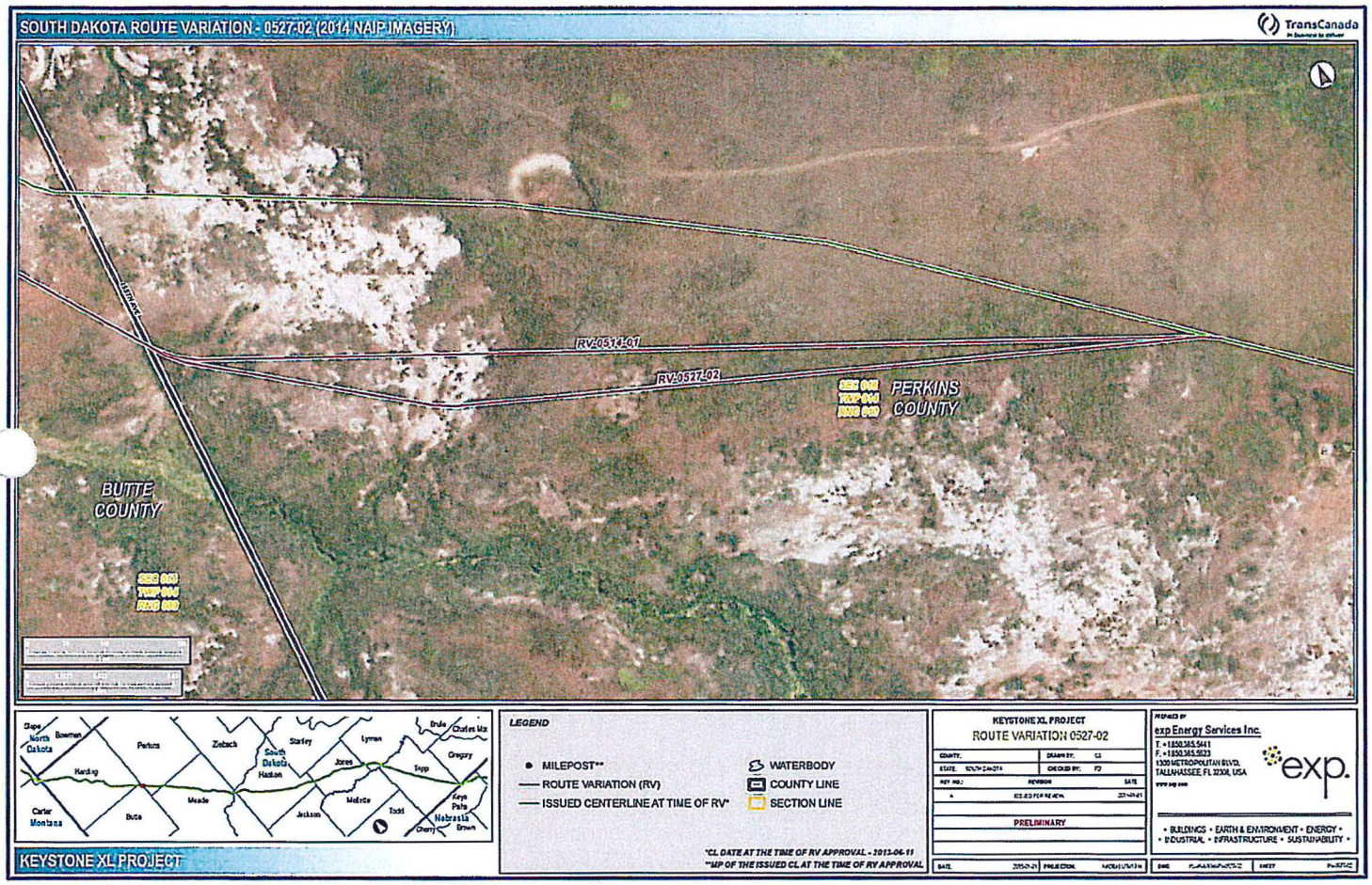

SOUTH DAKOTA ROUTE VARIATION - 0258-01 (2014 NAIP IMAGERY)
TransCanada
MP351
HARDING COUNTY
RV-0258-01
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Jones
Tripp
Gregory
Charles Mix
Harding
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0258-01
PRELIMINARY
exp Energy Services Inc.
T. +1 850.385.5441
F. +1 850.385.5523
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

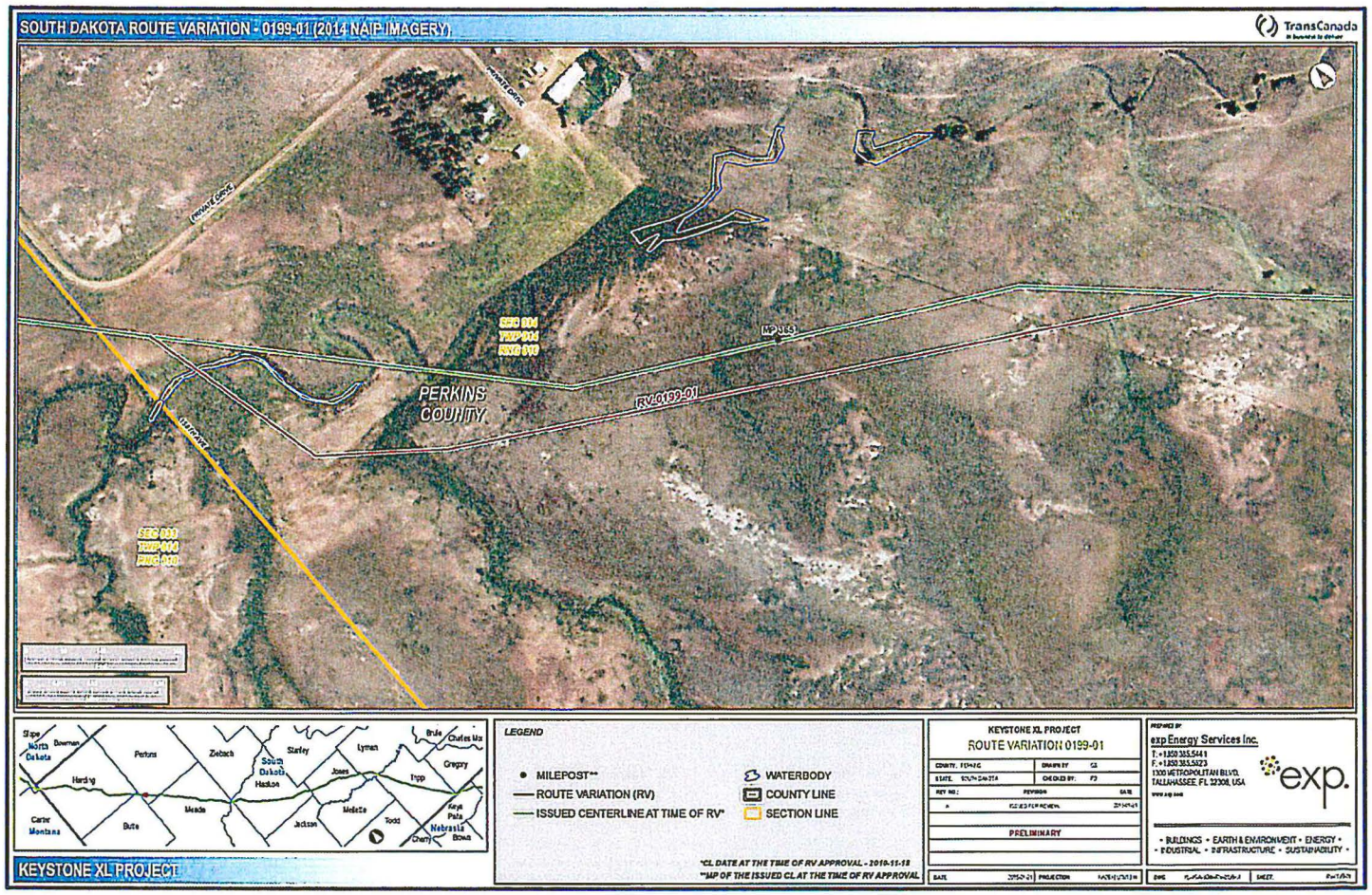

SOUTH DAKOTA ROUTE VARIATION - 0215-01 (2014 NAIP IMAGERY)
TransCanada
HARDING COUNTY
RV-0215-01
MP 353
SEC 010
TWP 018
RNG 005
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Dewey
Chalmers
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Meade
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
Butte
Jackson
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0215-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0291-01 (2014 NAIP IMAGERY)
TransCanada
MP 157
HARDING COUNTY
RV-0291-01
Slope
North Dakota
Bowman
Perkins
Zeibach
South Dakota
Haakon
Stanley
Lyman
Jones
Tripp
Gregory
Harding
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Nebraska
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0291-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0296-01 (2014 NAIP IMAGERY)
TransCanada
North Fork Moreau River
BUTTE COUNTY
PERKINS COUNTY
MP 362
R.V.0296-01
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Meade
Mellette
Todd
Keya Paha
Nebraska
Brown
Carter
Montana
Butte
Jackson
Cherry
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0296-01
PRELIMINARY
exp Energy Services Inc.
T. +1.850.385.5441
F. +1.850.385.5523
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0514-01 (2014 NAIP IMAGERY)
TransCanada
PERKINS COUNTY
BUTTE COUNTY
MP 362
SEC 08
TWP 014
RNG 010
SEC 03
TWP 014
RNG 009
RV-0514-01
RV-0527-02
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0514-01
REVISION
DATE
PRELIMINARY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5123
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0527-02 (2014 NAIP IMAGERY)
TransCanada
RV-0514-01
RV-0527-02
PERKINS COUNTY
BUTTE COUNTY
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0527-02
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0199-01 (2014 NAIP IMAGERY)
TransCanada
PERKINS COUNTY
RV-0199-01
MP 35.3
SEC 004
TWP 014
RNG 010
SEC 003
TWP 010
RNG 010
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0199-01
PRELIMINARY
exp Energy Services Inc.
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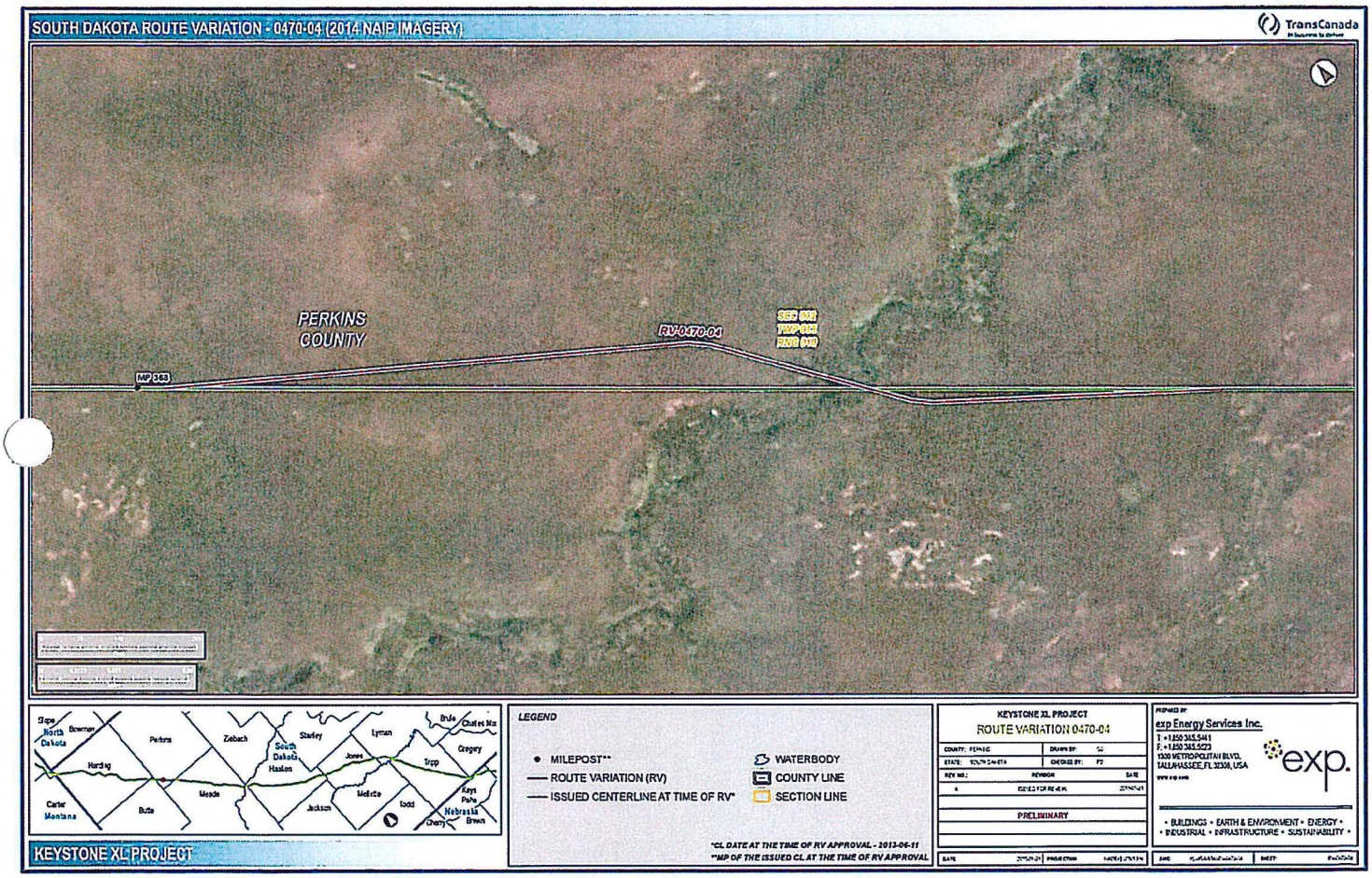
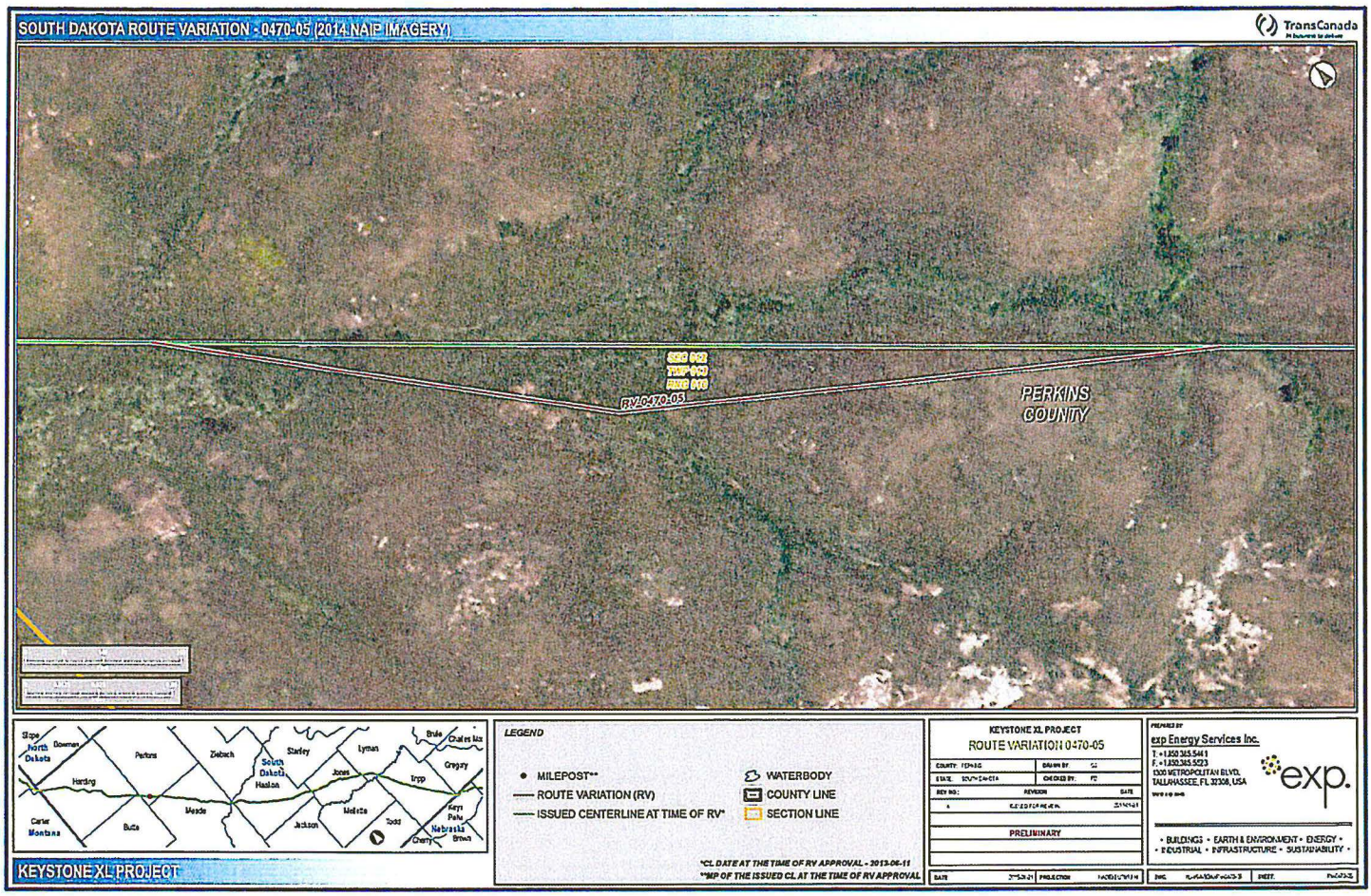
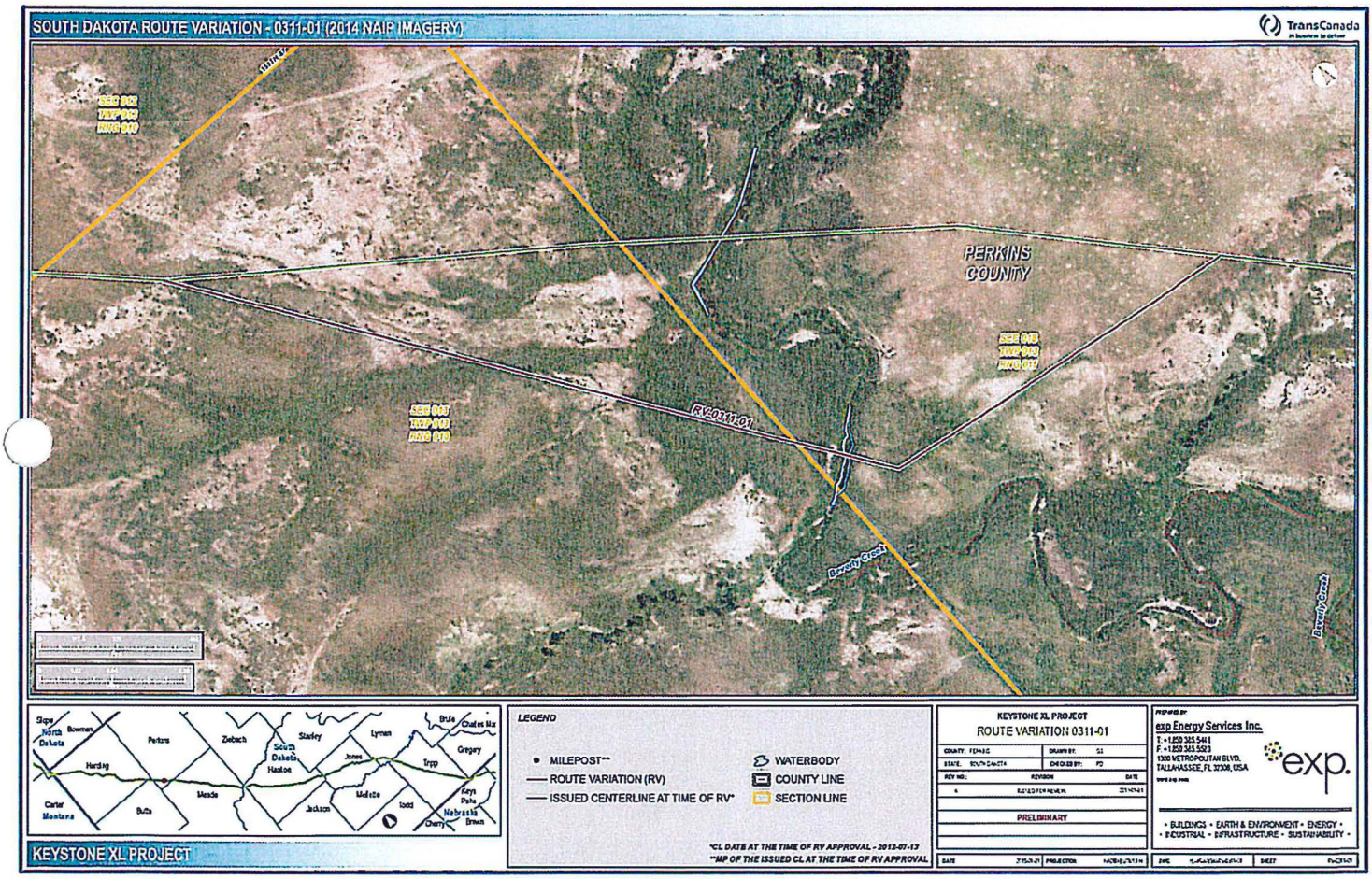
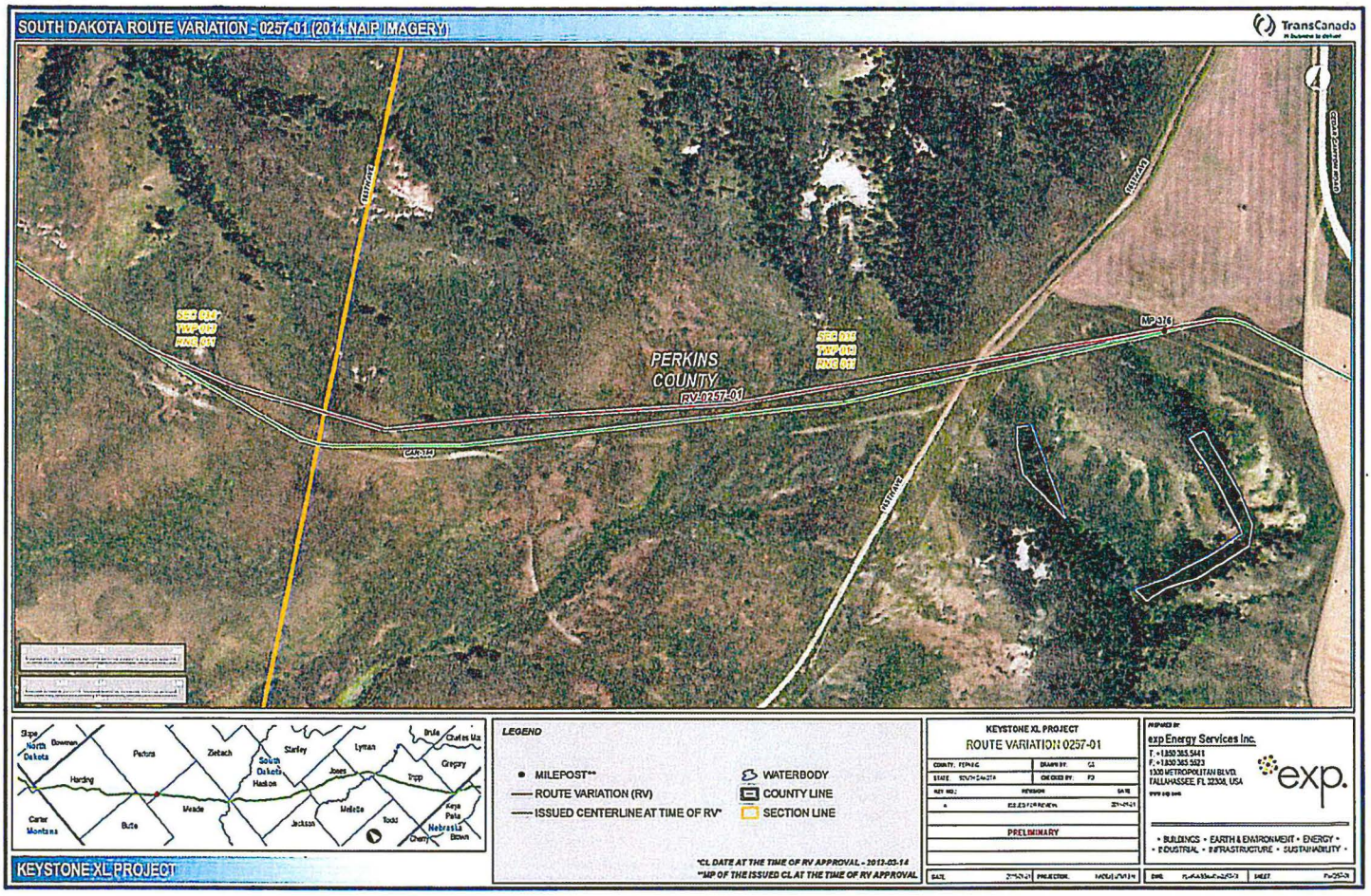
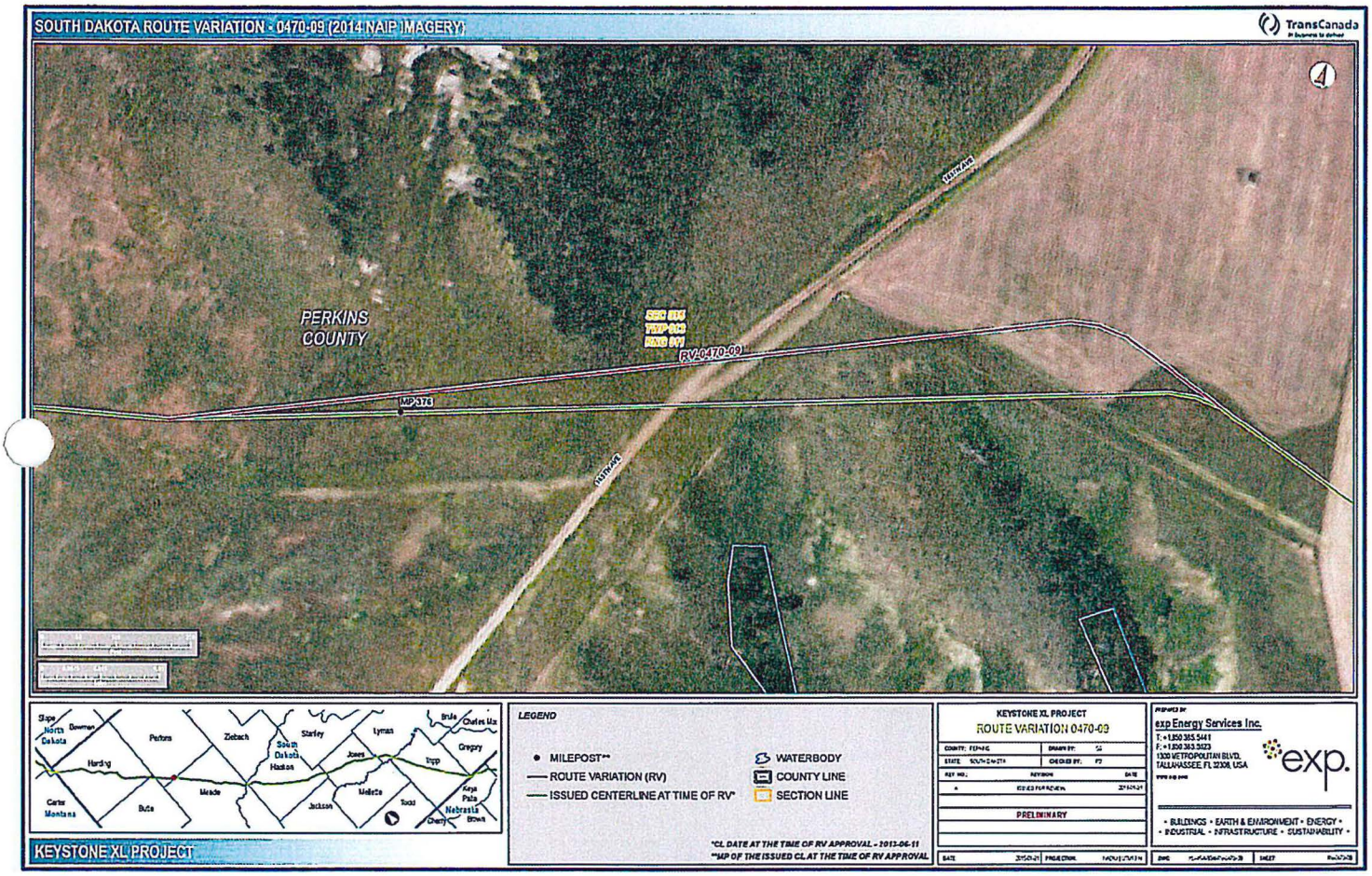
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

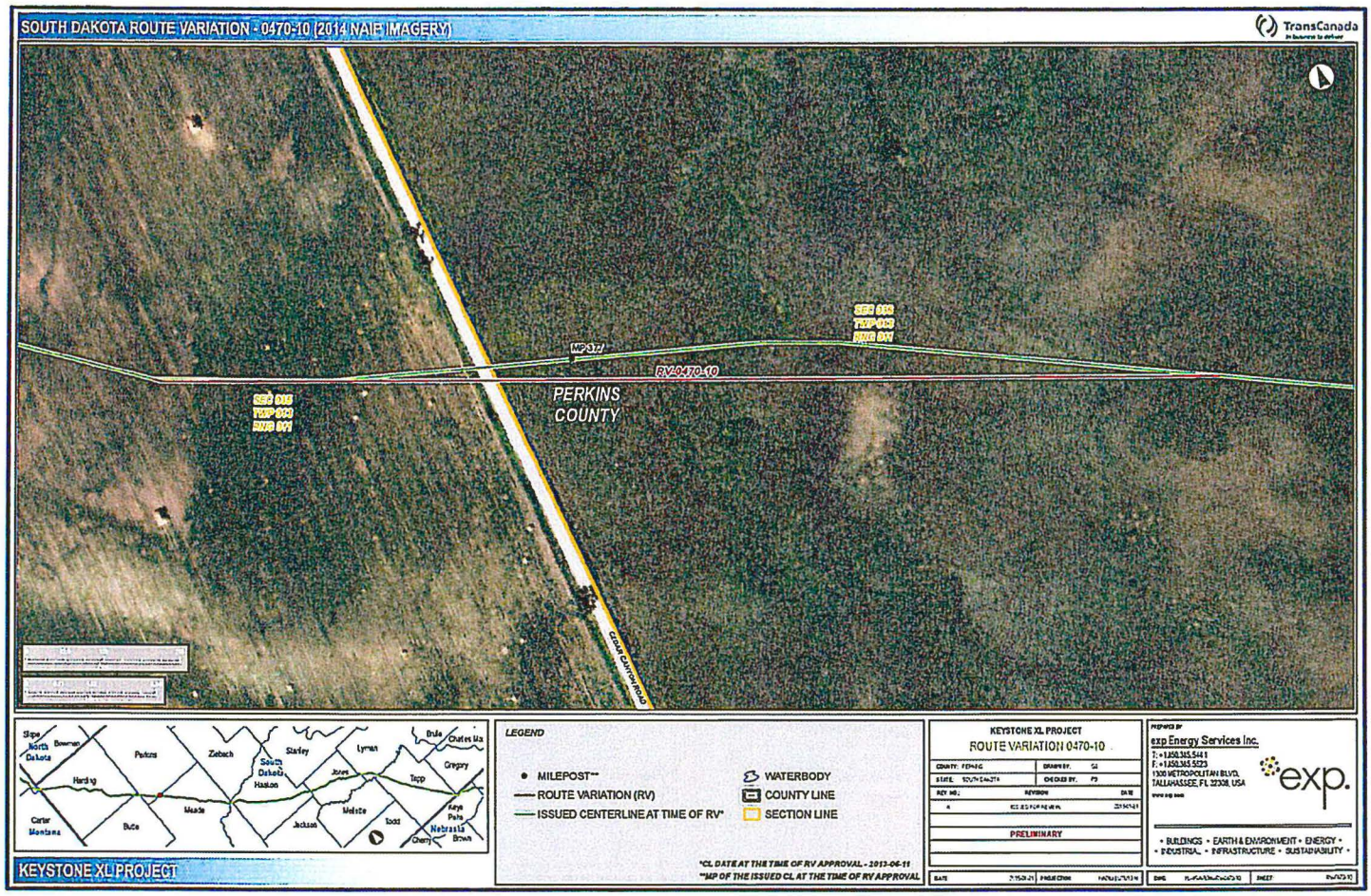

SOUTH DAKOTA ROUTE VARIATION - 0470-04 (2014 NAIP IMAGERY)
TransCanada
PERKINS COUNTY
RV-0470-04
MP 383
Slope
North Dakota
Bowman
Perkins
Zebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0470-04
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

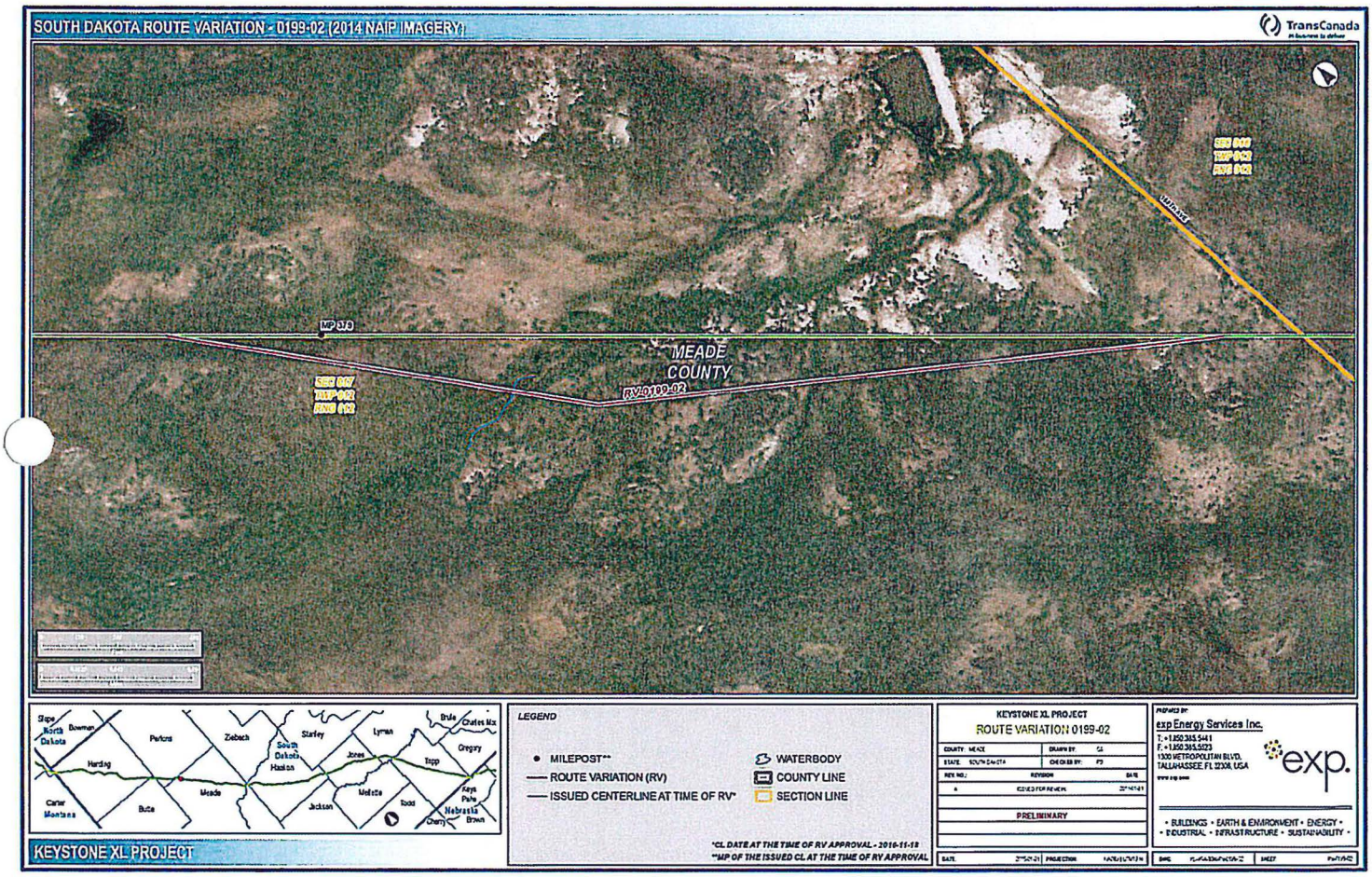

SOUTH DAKOTA ROUTE VARIATION - 0470-05 (2014 NAIP IMAGERY)
TransCanada
RV 0470-05
PERKINS COUNTY
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0470-05
PRELIMINARY
PREPARED BY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

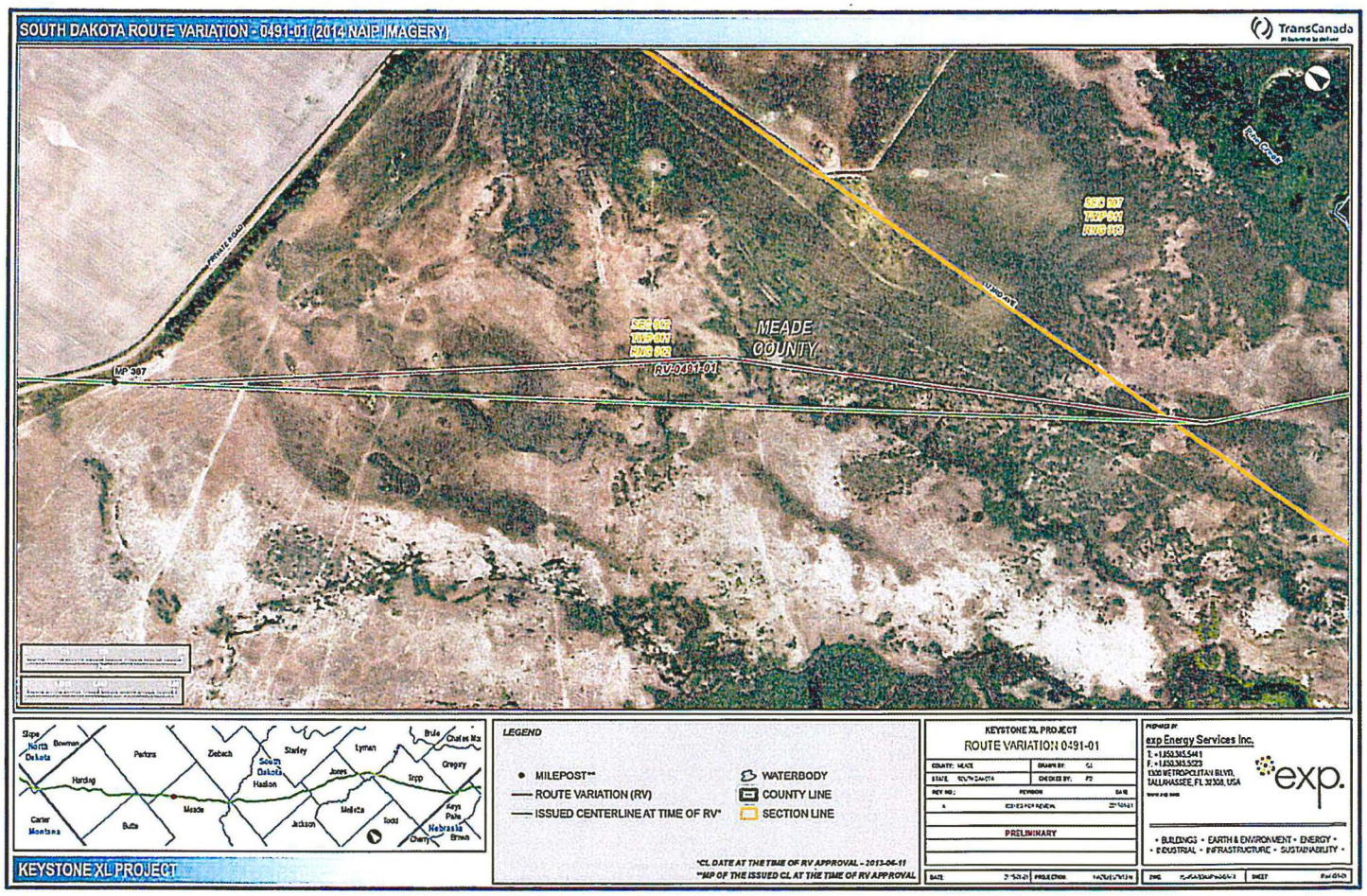

SOUTH DAKOTA ROUTE VARIATION - 0311-01 (2014 NAIP IMAGERY)
TransCanada
PERKINS COUNTY
RV-0311-01
Beverly Creek
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Meade
Butte
Jackson
Mellette
Todd
Keya Paha
Carter
Montana
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-07-13
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0311-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

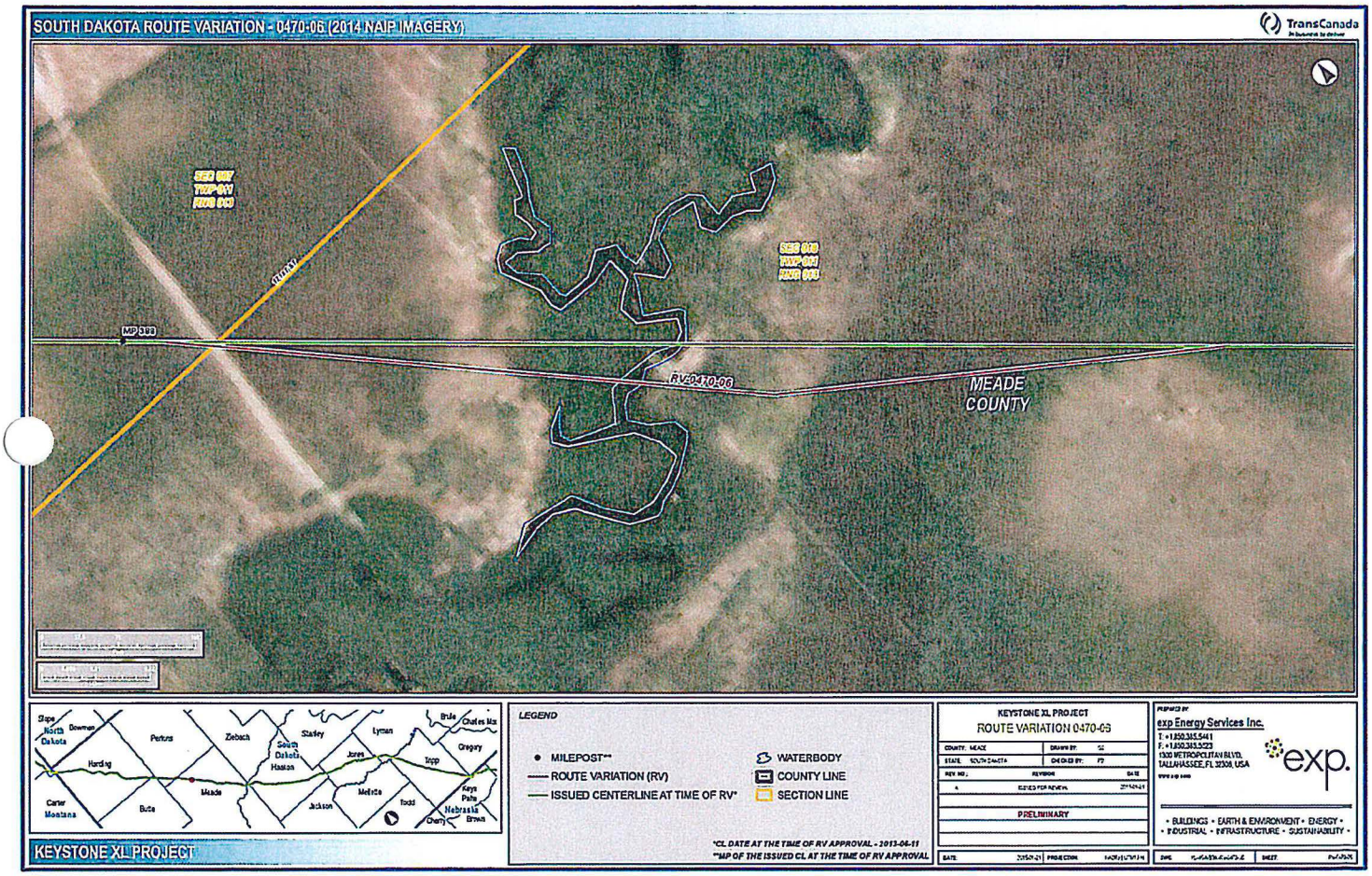

SOUTH DAKOTA ROUTE VARIATION - 0257-01 (2014 NAIP IMAGERY)
TransCanada
PERKINS COUNTY
RV-0257-01
MP 316
RAILROAD
KEYSTONE-XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0257-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

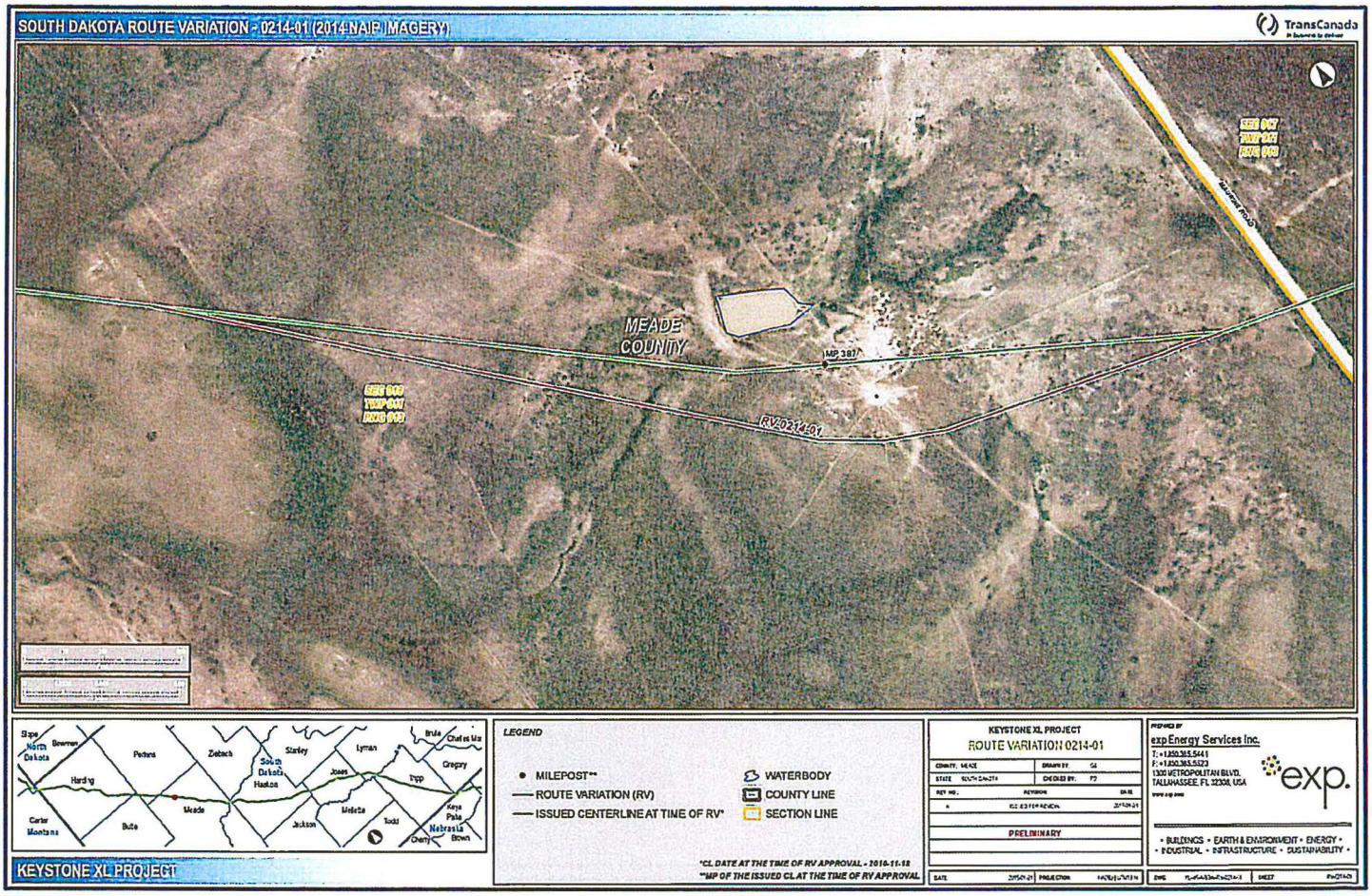

SOUTH DAKOTA ROUTE VARIATION - 0470-09 (2014 NAIP IMAGERY)
TransCanada
4
PERKINS COUNTY
RV-0470-09
MP 376
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Meade
Mellette
Todd
Keya Paha
Carter
Montana
Butte
Jackson
Cherry
Nebraska
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0470-09
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0470-10 (2014 NAIP IMAGERY)
TransCanada
MP 317
RV 0470-10
PERKINS COUNTY
SEC 033
TWP 023
RNG 07
SEC 033
TWP 023
RNG 08
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Meade
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Cartier
Montana
Butte
Jackson
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0470-10
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0199-02 (2014 NAIP IMAGERY)
TransCanada
MP 370
MEADE COUNTY
RV 0199-02
SEC 007
TWP 002
RNG 012
SEC 009
TWP 002
RNG 012
Slope
North Dakota
Bowman
Harding
Perkins
Ziebach
South Dakota
Haakon
Stanley
Jones
Lyman
Brule
Charles Mix
Gregory
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2016-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0199-02
COUNTY: MEADE
STATE: SOUTH DAKOTA
REV NO.
REVISION
DATE
PRELIMINARY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5023
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0491-01 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
RV 0491-01
UP 307
PRIVATE ROAD
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Meade
Carter
Montana
Butte
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0491-01
COUNTY: MEADE
STATE: SOUTH DAKOTA
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0470-06 (2014 NAIP IMAGERY)
TransCanada
SEC 007
TWP 041
RNG 003
SEC 008
TWP 041
RNG 003
MP 388
RV-0470-06
MEADE COUNTY
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0470-06
COUNTY: MEADE
STATE: SOUTH DAKOTA
DRAWN BY:
CHECKED BY:
REV NO.
REVISION
DATE
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
exp Energy Services Inc.
T. +1.850.385.5441
F. +1.850.385.5223
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0214-01 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
MP 387
RV 0214-01
SEC 007
TWP 011
RNG 003
SEC 009
TWP 011
RNG 003
Slope
North Dakota
Bowman
Perkins
Zeibach
South Dakota
Harding
Meade
Butte
Carter
Montana
Haakon
Stanley
Jones
Lyman
Jackson
Mellette
Todd
Tripp
Gregory
Brule
Chef et Mix
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2016-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0214-01
PRELIMINARY
exp Energy Services Inc.
exp.
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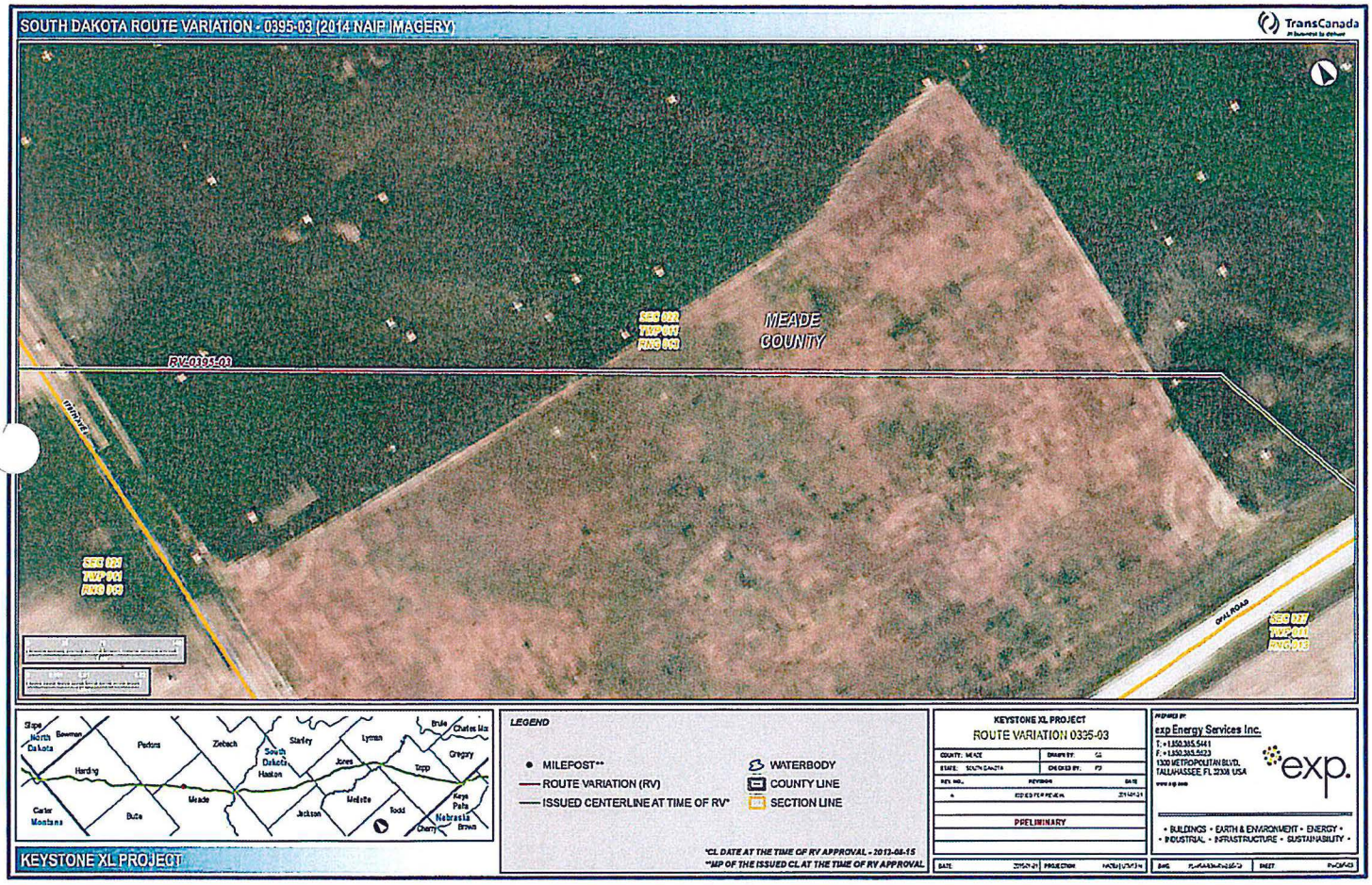
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0395-03 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
RV-0395-03
OPAL ROAD
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0395-03
PRELIMINARY
exp Energy Services Inc.
exp.
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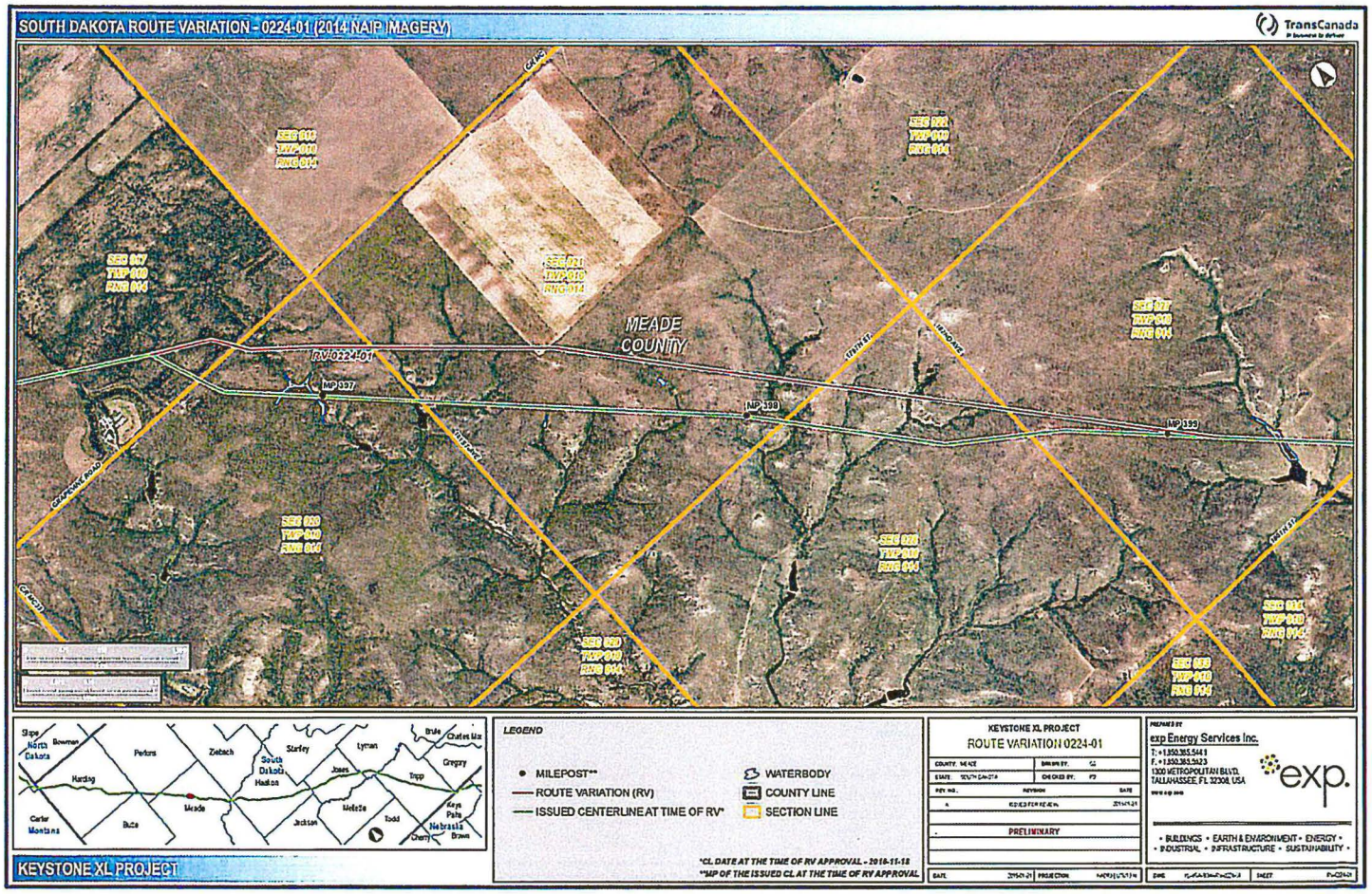
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0224-01 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
RV 0224-01
MP 397
MP 398
MP 399
SEC 016 TWP 010 RNG 014
SEC 021 TWP 010 RNG 014
SEC 028 TWP 010 RNG 014
SEC 033 TWP 010 RNG 014
SEC 034 TWP 010 RNG 014
SEC 035 TWP 010 RNG 014
SEC 036 TWP 010 RNG 014
SEC 031 TWP 010 RNG 014
SEC 032 TWP 010 RNG 014
SEC 017 TWP 010 RNG 014
SEC 020 TWP 010 RNG 014
SEC 029 TWP 010 RNG 014
SEC 030 TWP 010 RNG 014
SEC 019 TWP 010 RNG 014
SEC 018 TWP 010 RNG 014
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Brule
Chaffee Ma
Gregory
Harding
Jones
Tripp
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT THE TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2016-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0224-01
COUNTY: MEADE
DRAWN BY: SL
STATE: SOUTH DAKOTA
CHECKED BY: FP
REV. NO.
REVISION
DATE
A
ISSUED FOR REVIEW
2016-11-21
PRELIMINARY
DATE
2016-01-21
PROJECTION
PREPARED BY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5623
1300 METROPOLITAN BLVD.
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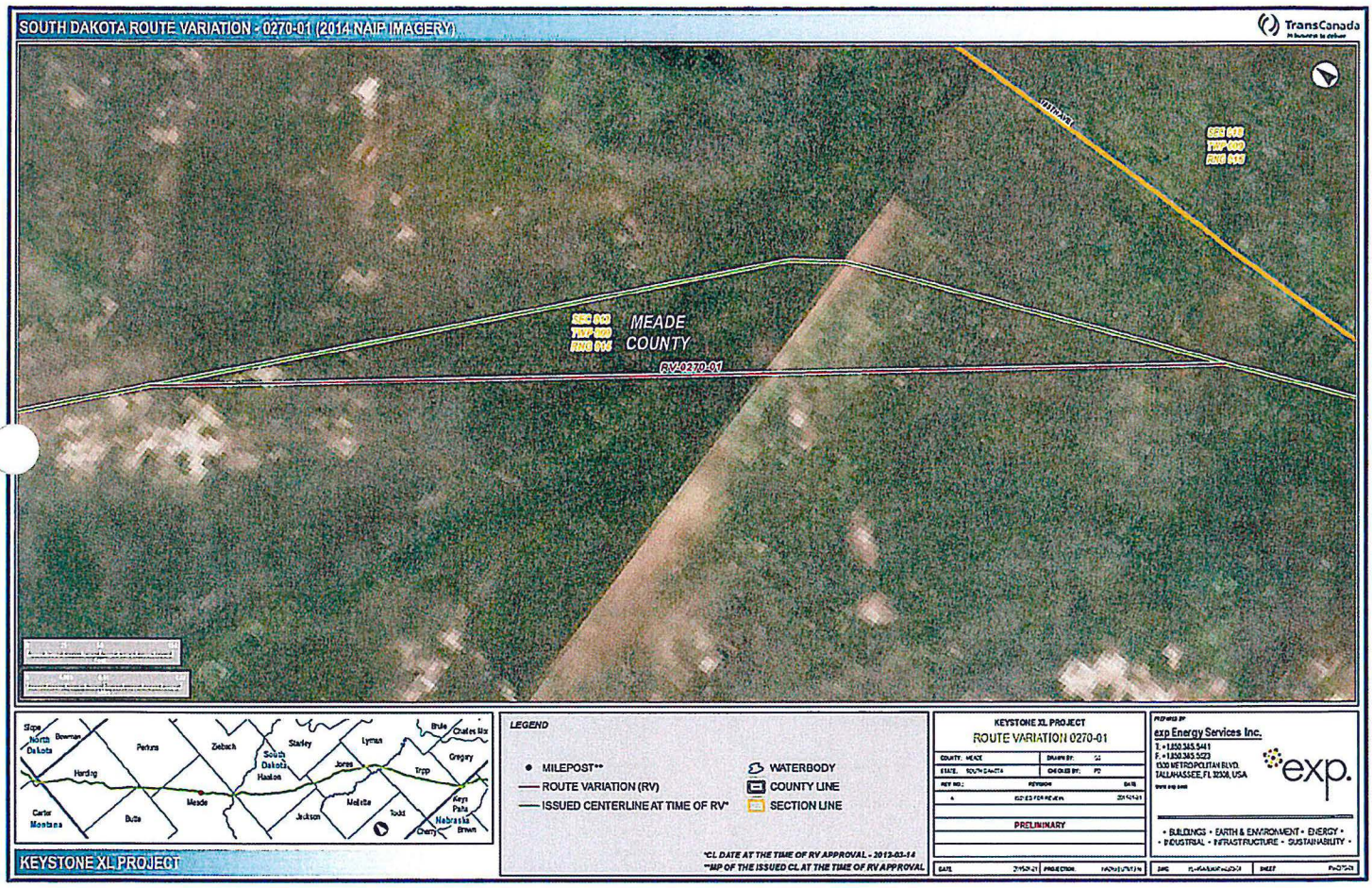
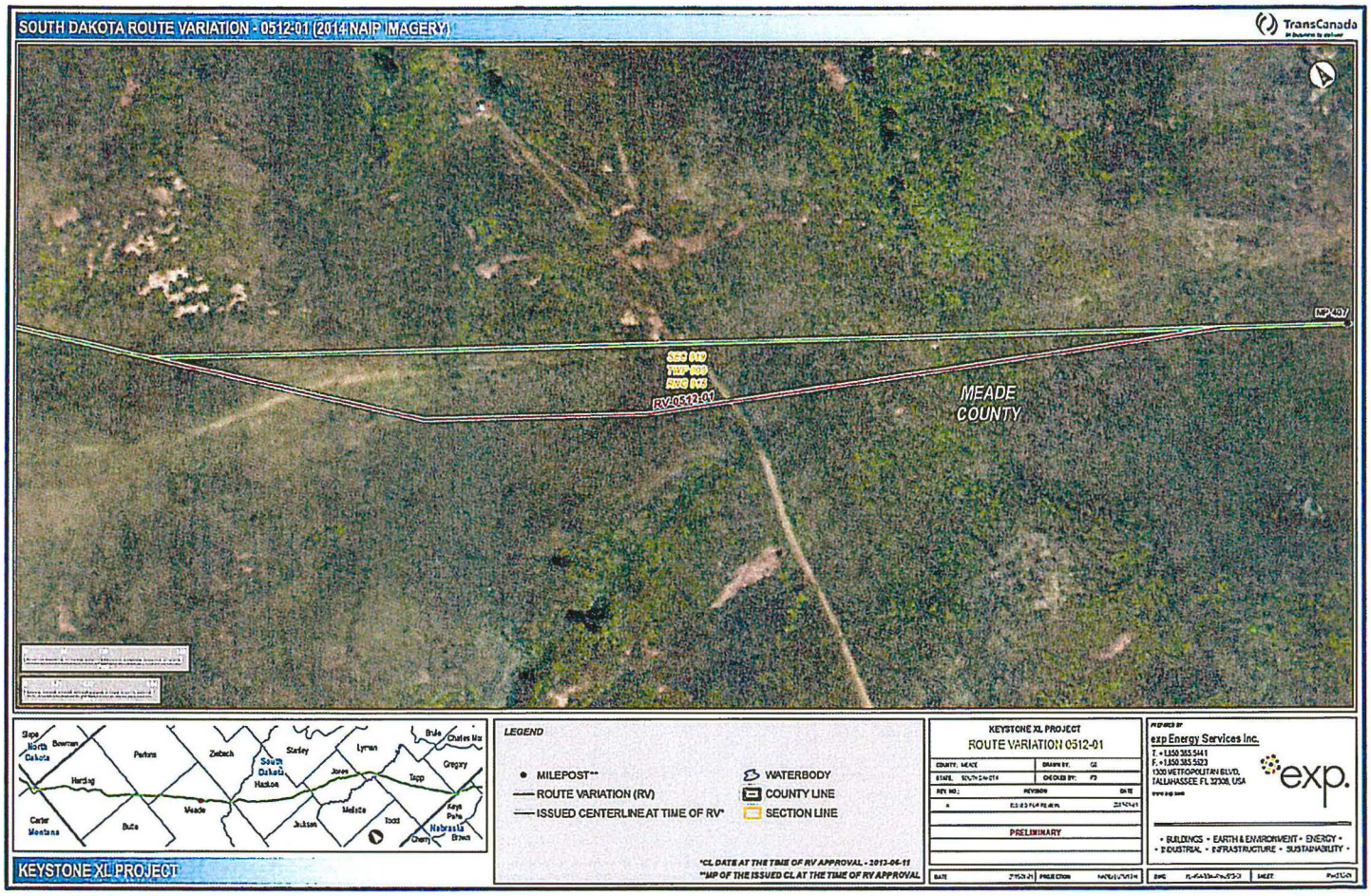
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
ZONE
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0270-01 (2014 NAIP IMAGERY)
TransCanada
MEADE
COUNTY
RV-0270-01
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0270-01
COUNTY: MEADE
DRAWN BY:
STATE: SOUTH DAKOTA
CHECKED BY:
REV NO.:
REVISION
DATE
PRELIMINARY
exp Energy Services Inc.
T. +1.850.345.5441
F. +1.850.345.5623
1000 METROPOLITAN BLVD
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
DATE
PROJECTION
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0512-01 (2014 NAIP IMAGERY)
TransCanada
MP 407
SEC 010
TWP 009
RNG 045
RV-0512-01
MEADE COUNTY
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Meade
Mellette
Todd
Keya Paha
Carter
Montana
Butte
Jackson
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0512-01
COUNTY: MEADE
DRAWN BY: GE
STATE: SOUTH DAKOTA
CHECKED BY: FD
REV NO.:
REVISION
DATE
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
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F. +1.850.385.5023
1300 METROPOLITAN BLVD.
TALLAHASSEE FL 32308, USA
exp.
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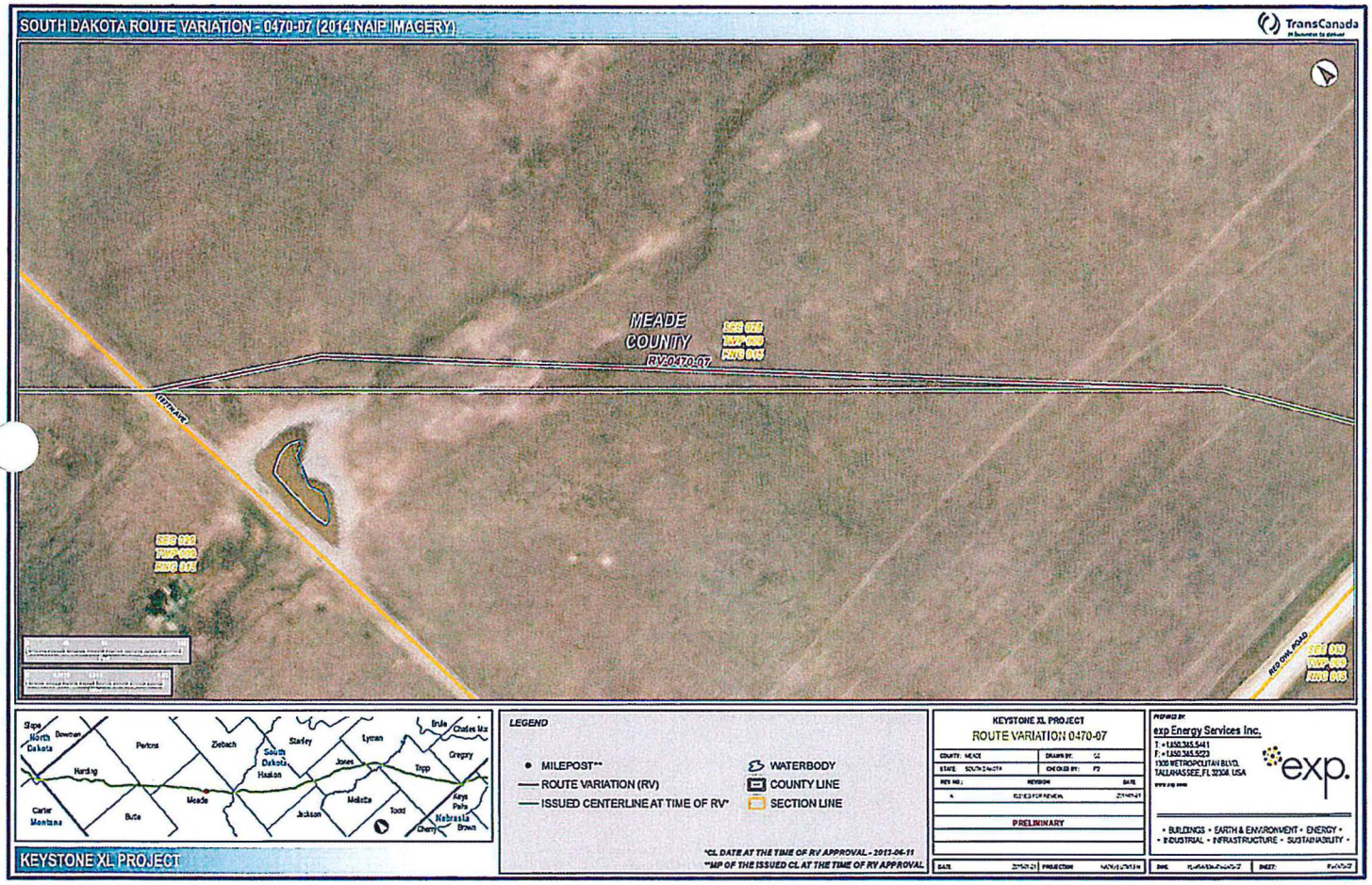
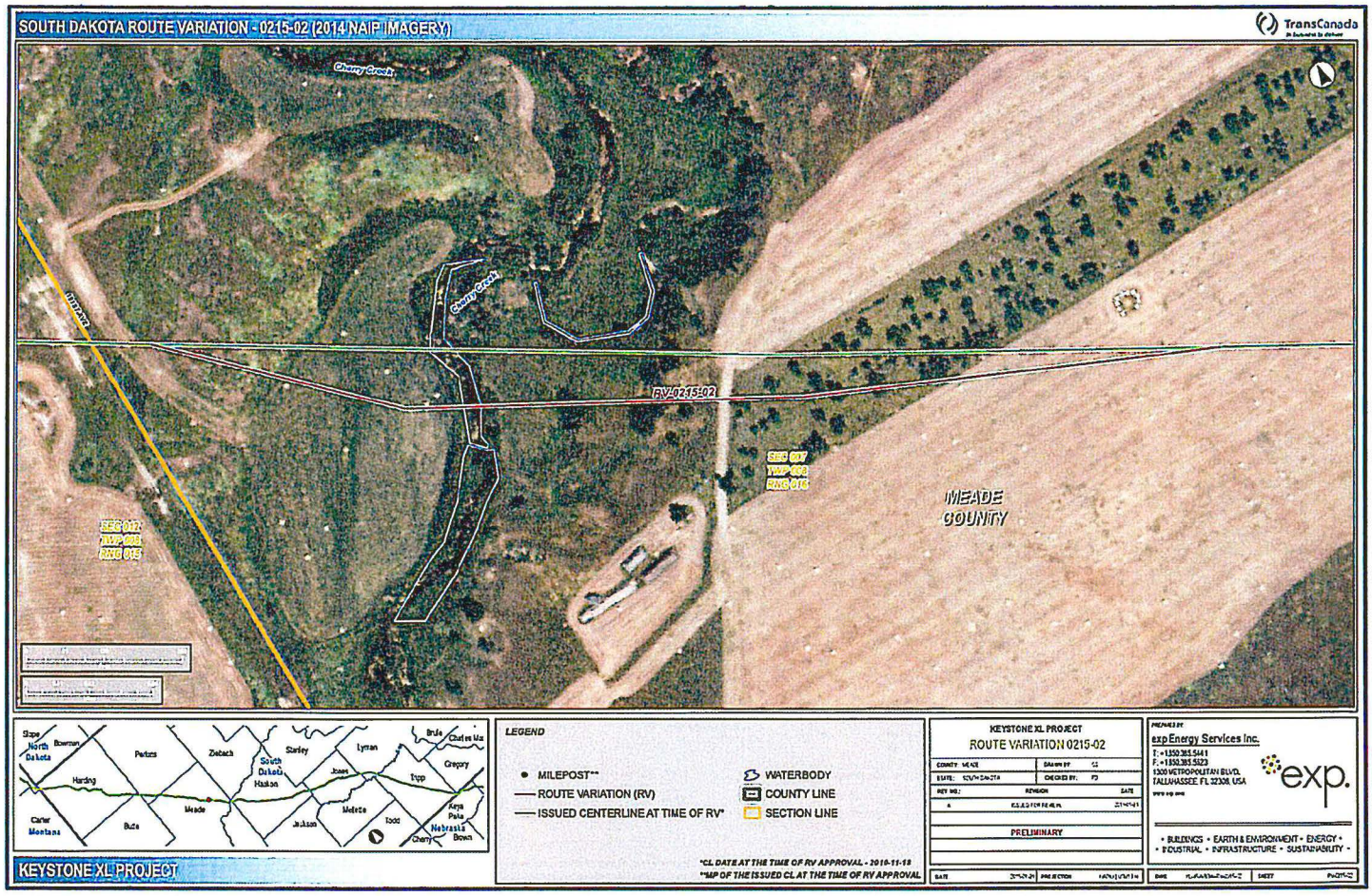
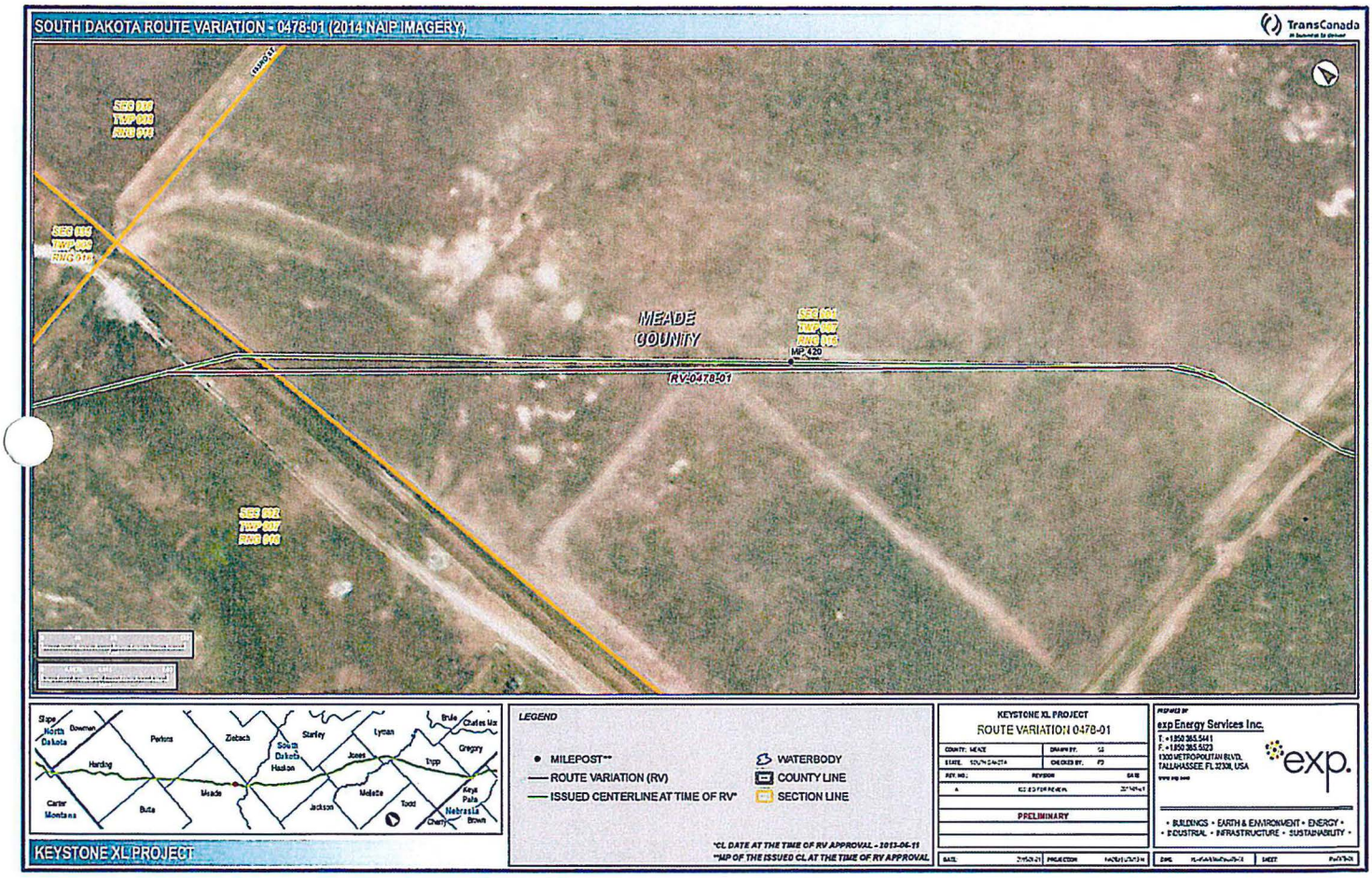
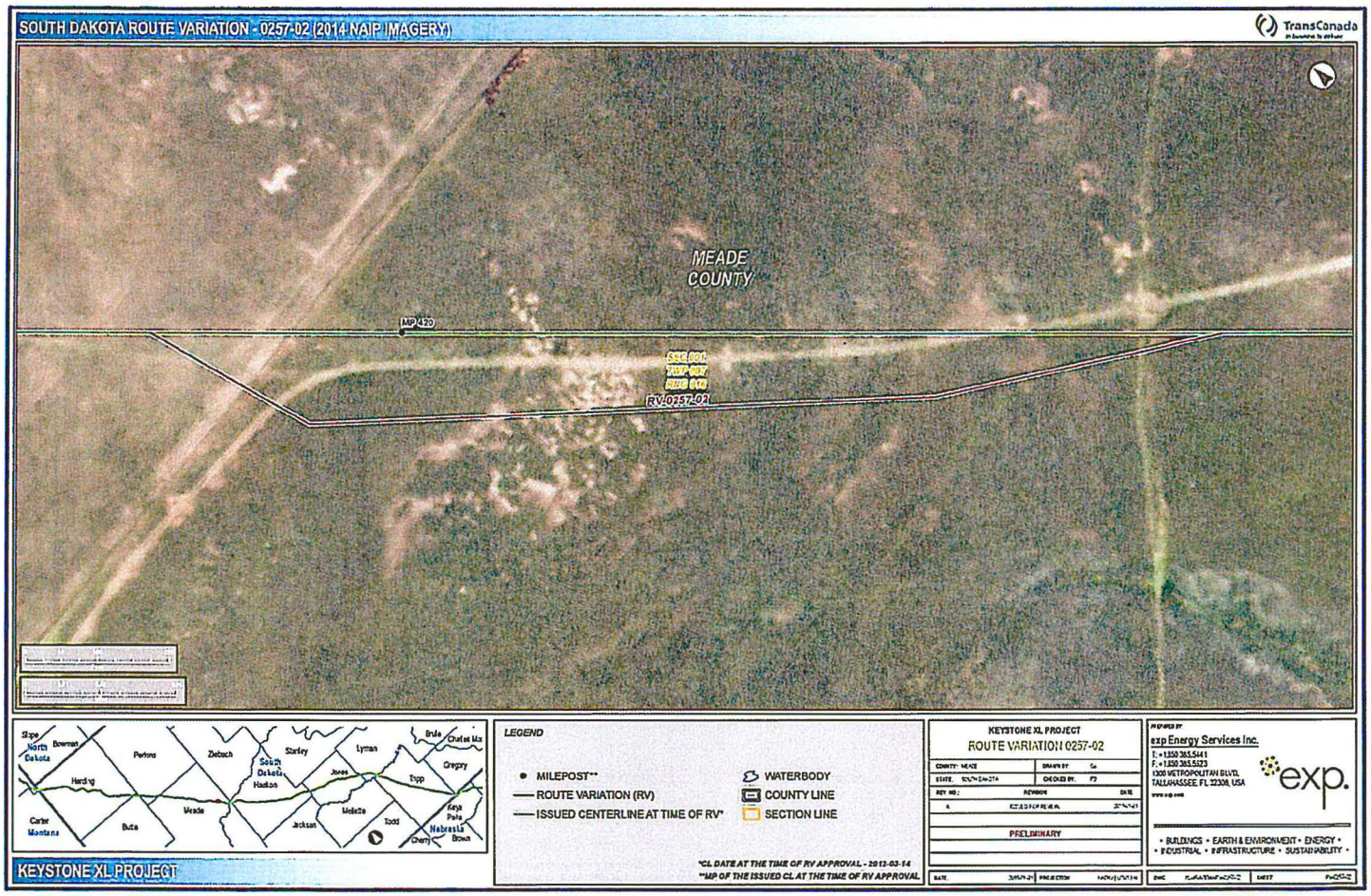
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SIZE
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0470-07 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
RV 0470-07
SEC 010
TWP 020
RNG 015
SEC 010
TWP 020
RNG 015
SEC 010
TWP 020
RNG 015
RED OAK ROAD
Slope
North Dakota
Dewey
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0470-07
COUNTY: MEADE
DRAWN BY:
STATE: SOUTH DAKOTA
CHECKED BY:
REV NO.
REVISION
DATE
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY:
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5223
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
DWG
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0215-02 (2014 NAIP IMAGERY)
TransCanada
Cherry Creek
Cherry Creek
MONTANA
RV-0215-02
SEC 017
TWP 008
RNG 015
SEC 007
TWP 008
RNG 016
MEADE
COUNTY
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
South Dakota
Haakon
Jones
Gregory
Harding
Tripp
Meade
Mellette
Todd
Keya Paha
Carter
Montana
Butte
Jackson
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0215-02
COUNTY: MEADE
STATE: SOUTH DAKOTA
DRAWN BY:
CHECKED BY:
REV NO.:
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY:
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5323
1300 METROPOLITAN BLVD.
TALLAHASSEE FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0478-01 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
MP 420
RV-0478-01
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0478-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0257-02 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
MP 420
SEC 001
TWP 007
RNG 016
RV 0257-02
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
South Dakota
Haakon
Jones
Gregory
Harding
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0257-02
COUNTY: MEADE
STATE:
DRAWN BY:
CHECKED BY:
REV NO.:
REVISION
DATE
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T: +1.850.385.5441
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1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
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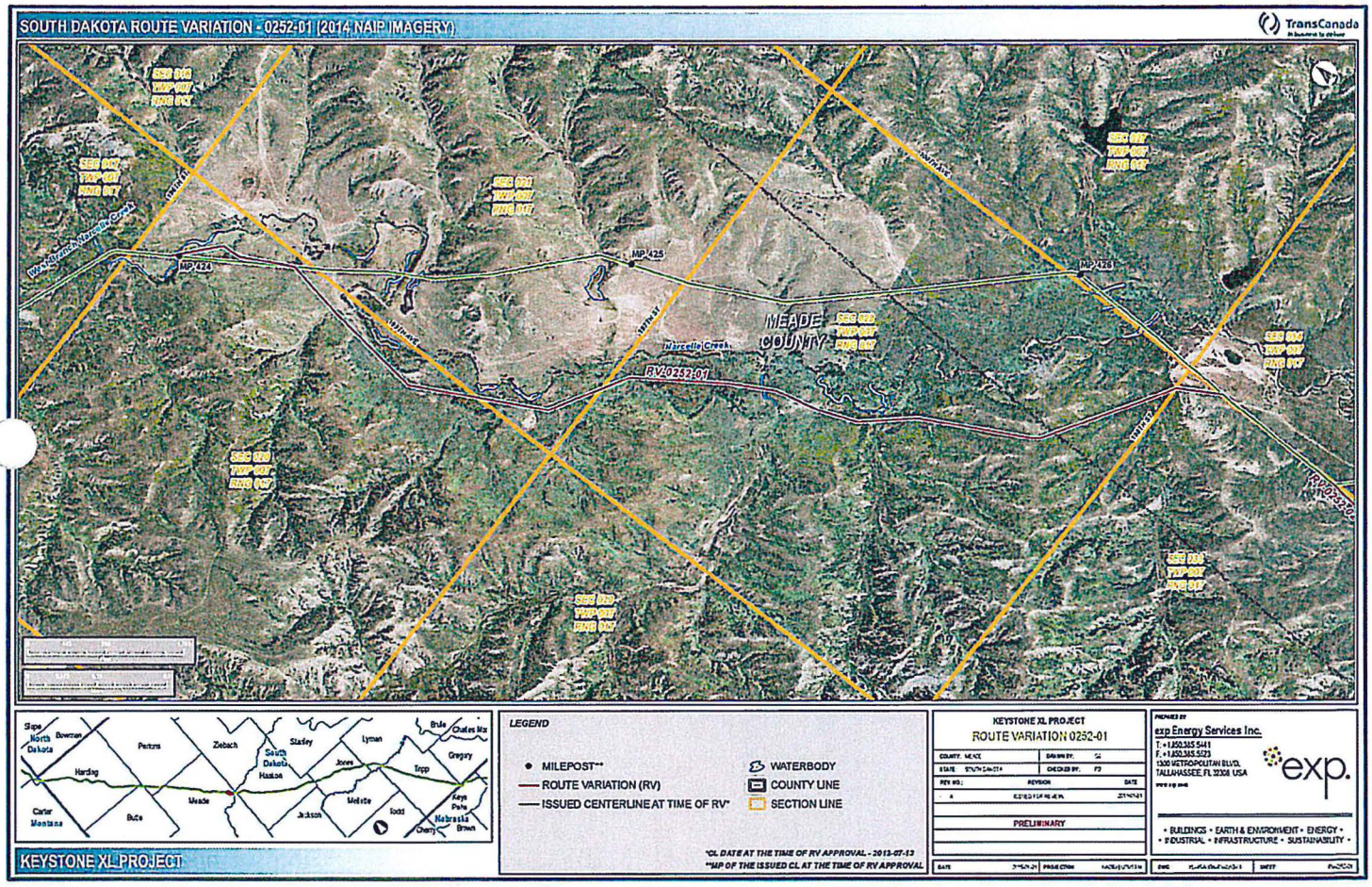
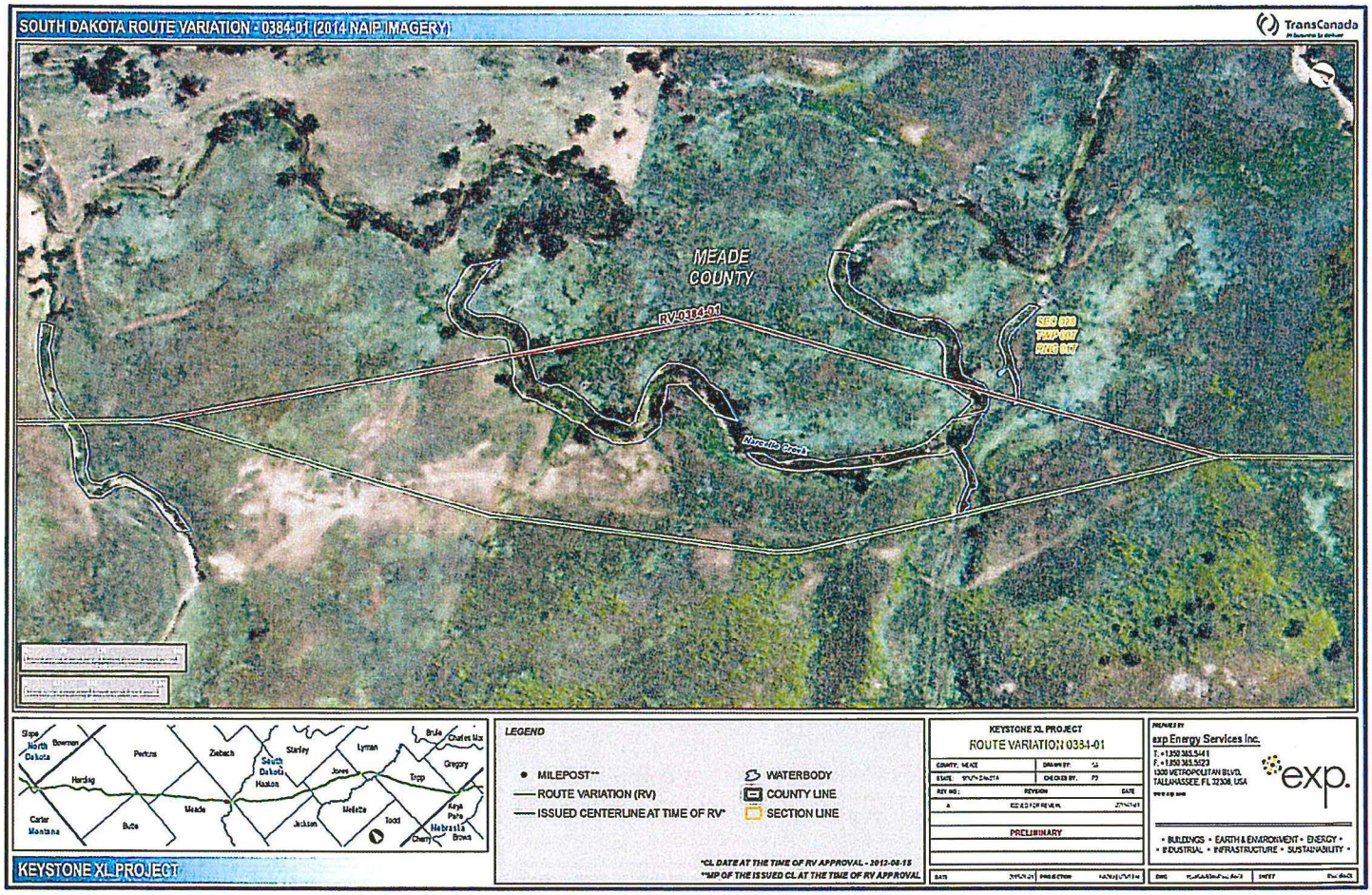
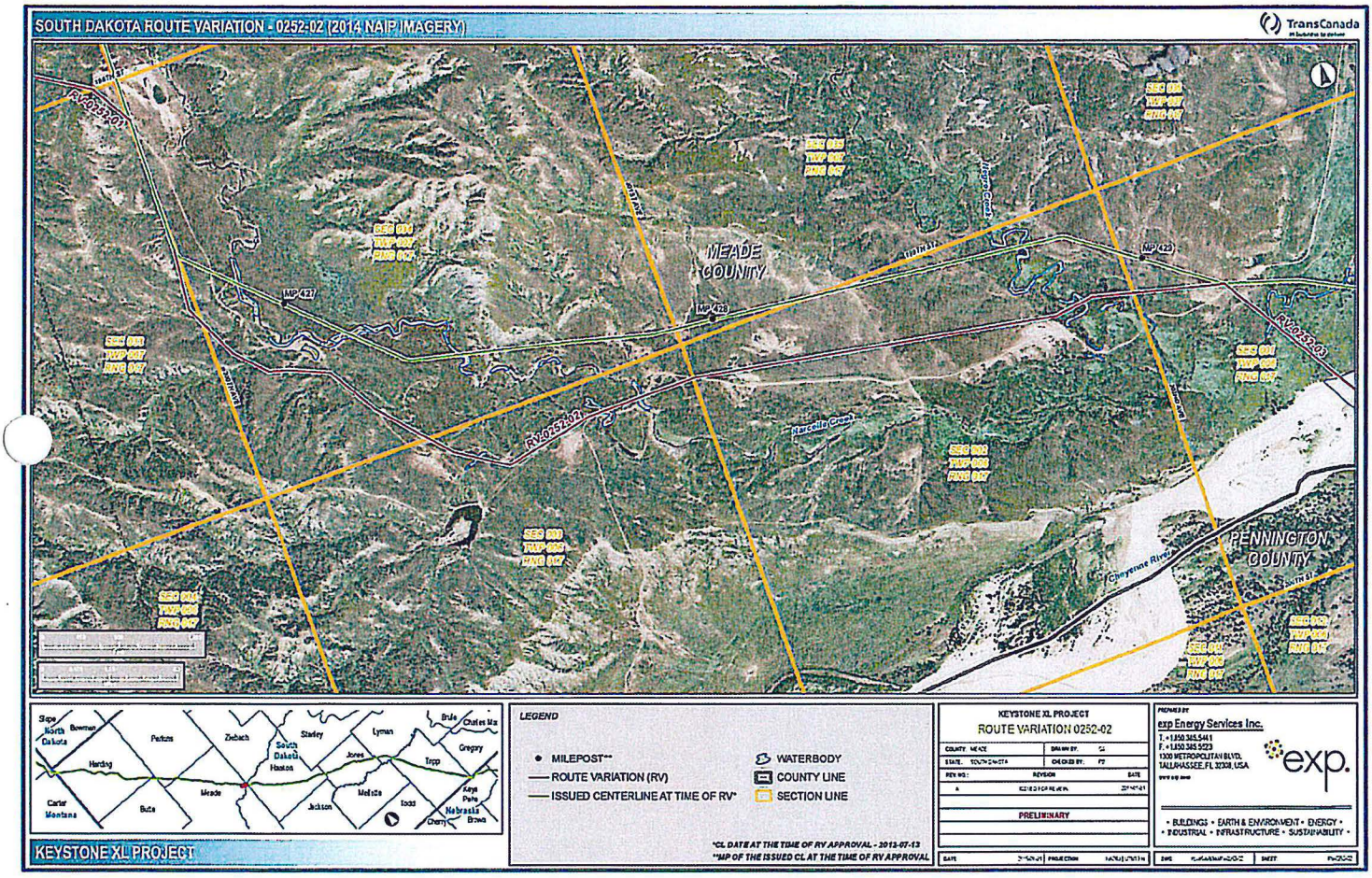
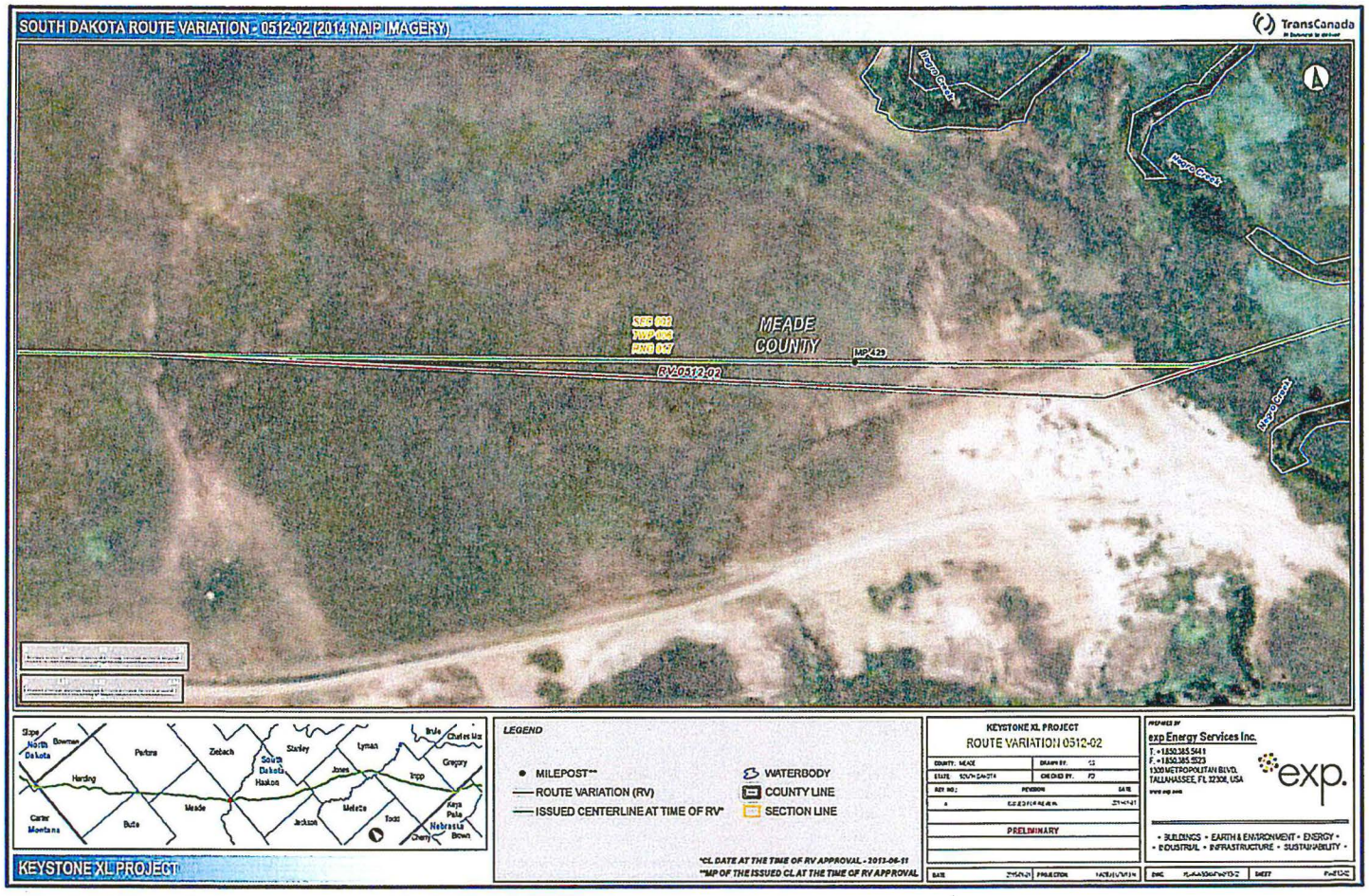
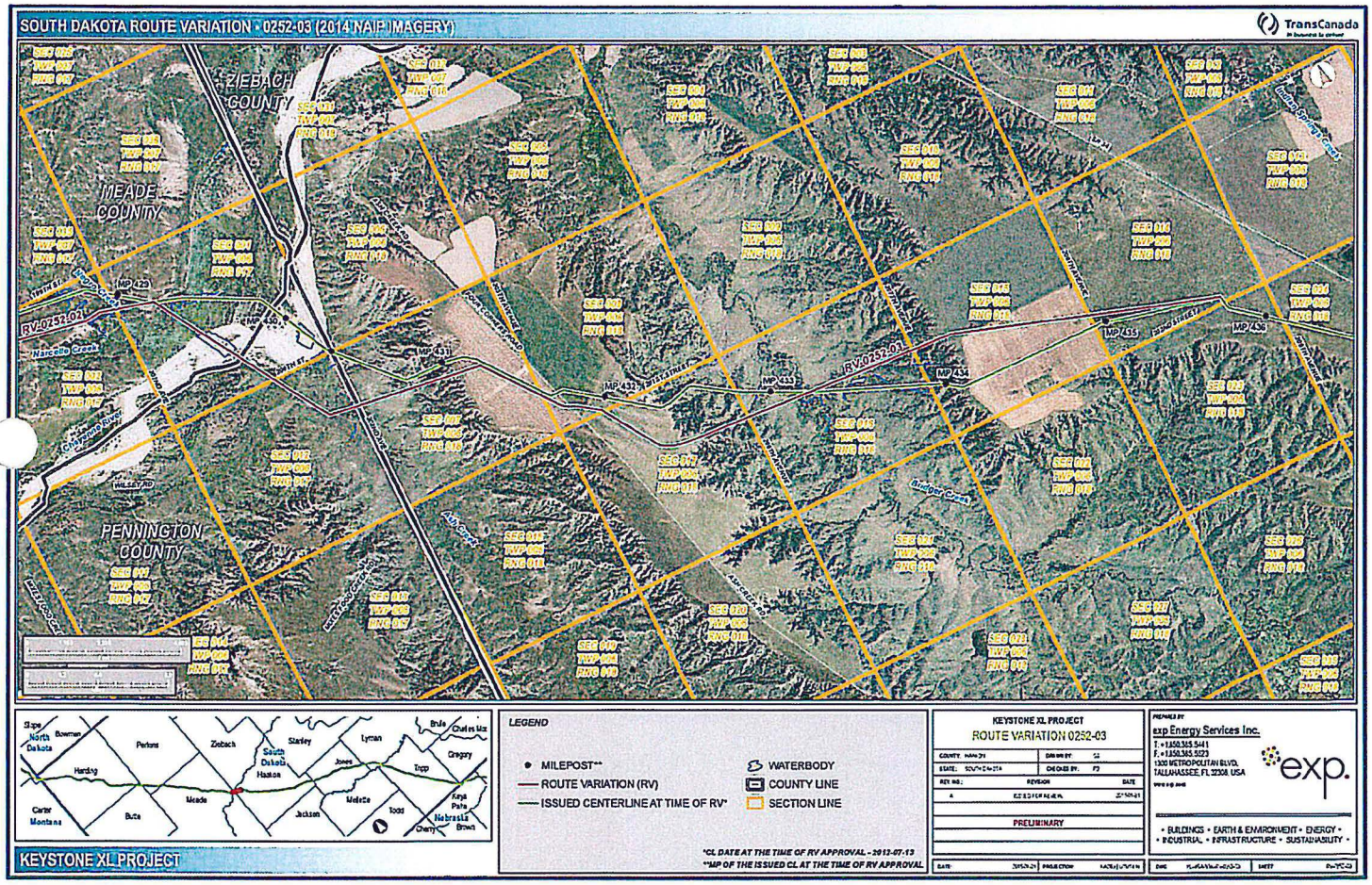
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
DWG
SHEET

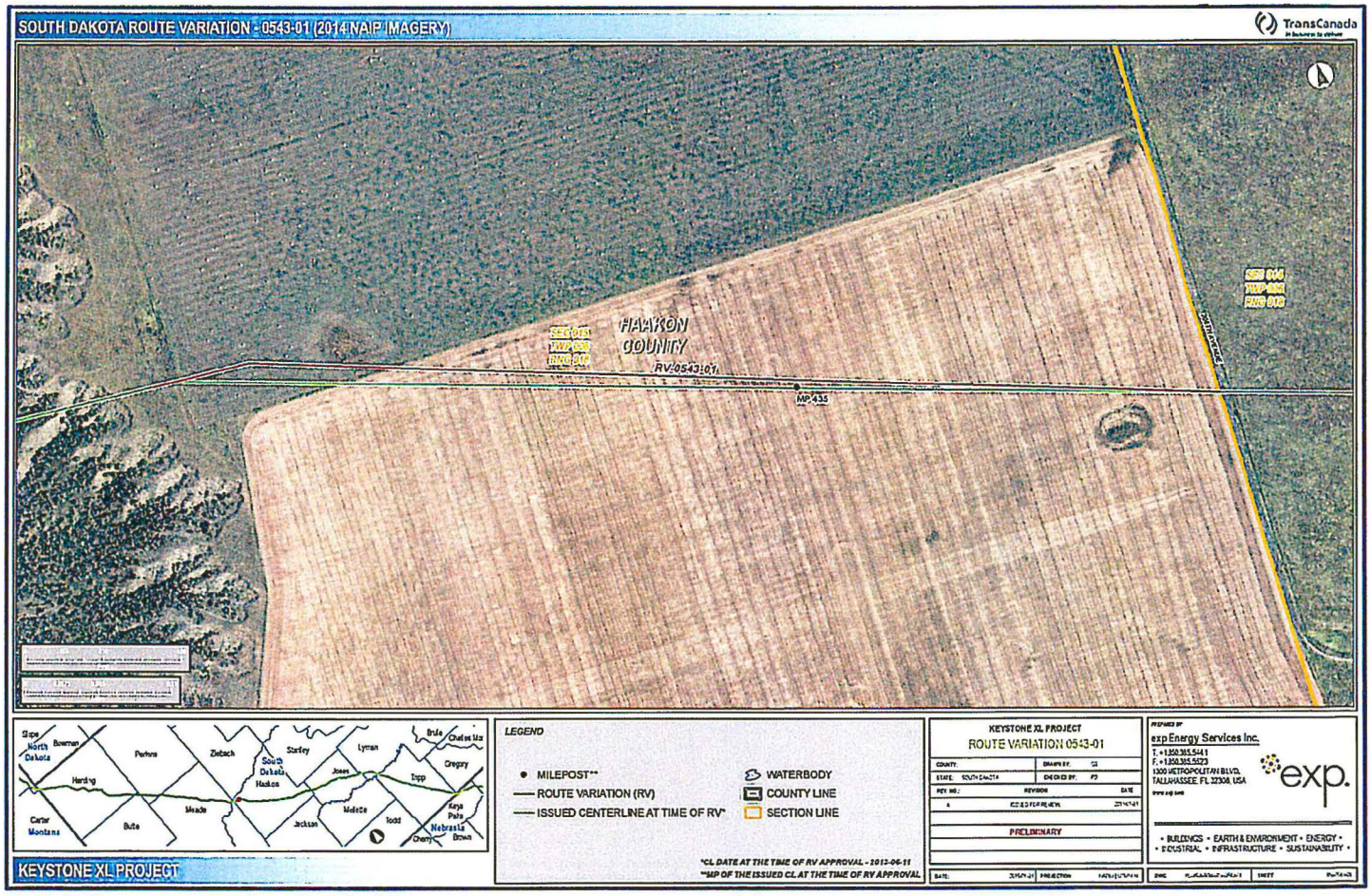

SOUTH DAKOTA ROUTE VARIATION - 0252-01 (2014 NAIP IMAGERY)
TransCanada
MP 424
MP 425
MP 426
MEADE COUNTY
Narcelle Creek
RV 0252-01
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-07-13
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0252-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT

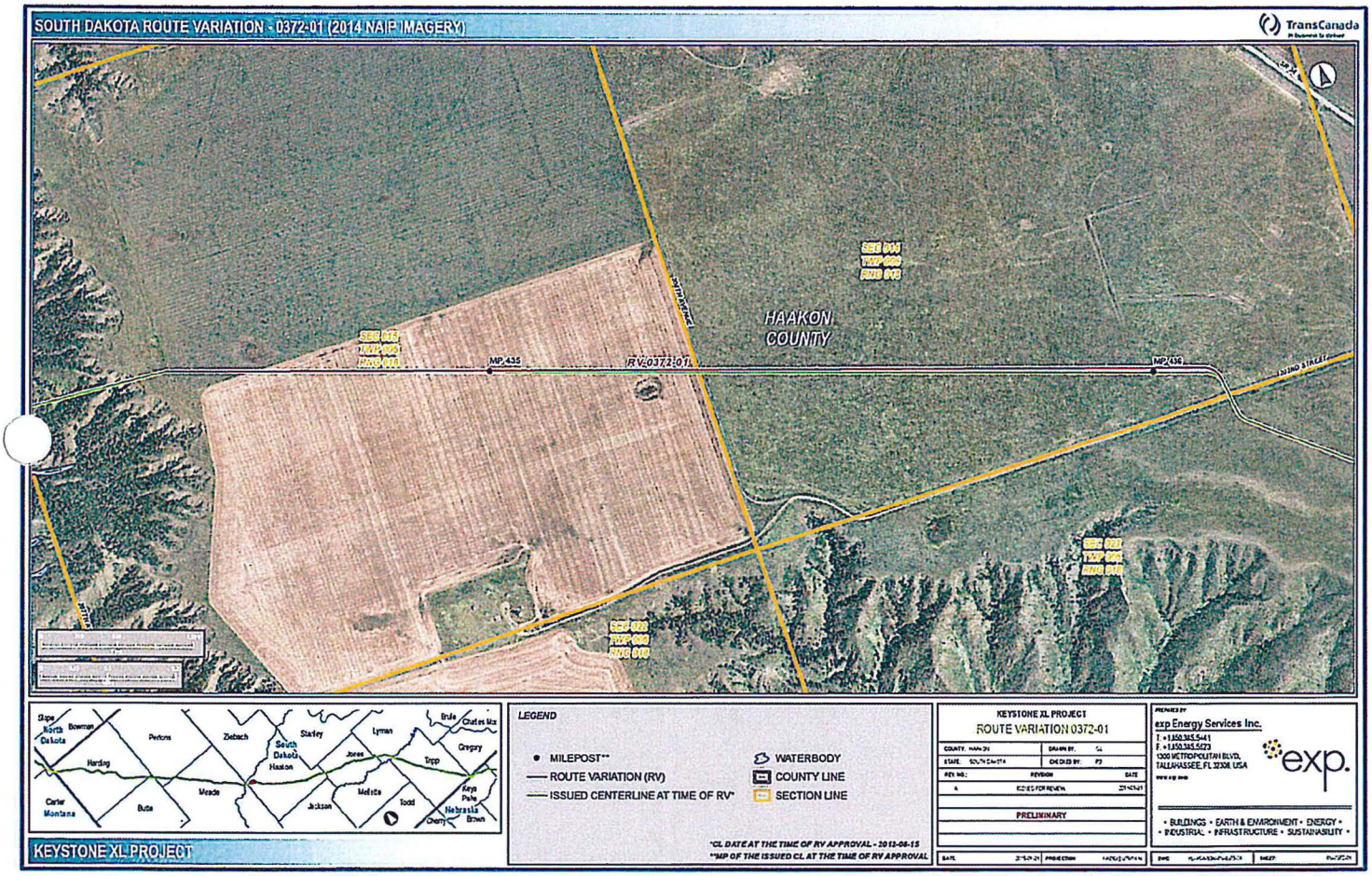

SOUTH DAKOTA ROUTE VARIATION - 0384-01 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
RV-0384-01
SEC 020
TWP 007
RNG 017
Narcelle Creek
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
South Dakota
Haakon
Lyman
Brule
Charles Mix
Gregory
Jones
Tripp
Harding
Meade
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Jackson
Butte
Carter
Montana
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0384-01
COUNTY: MEADE
DRAWN BY:
STATE: SOUTH DAKOTA
CHECKED BY:
REV NO.:
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
PREPARED BY
exp Energy Services Inc.
T. +1 850 385.5141
F. +1 850 385.5123
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
DATE
PROJECTION
DWG
SHEET

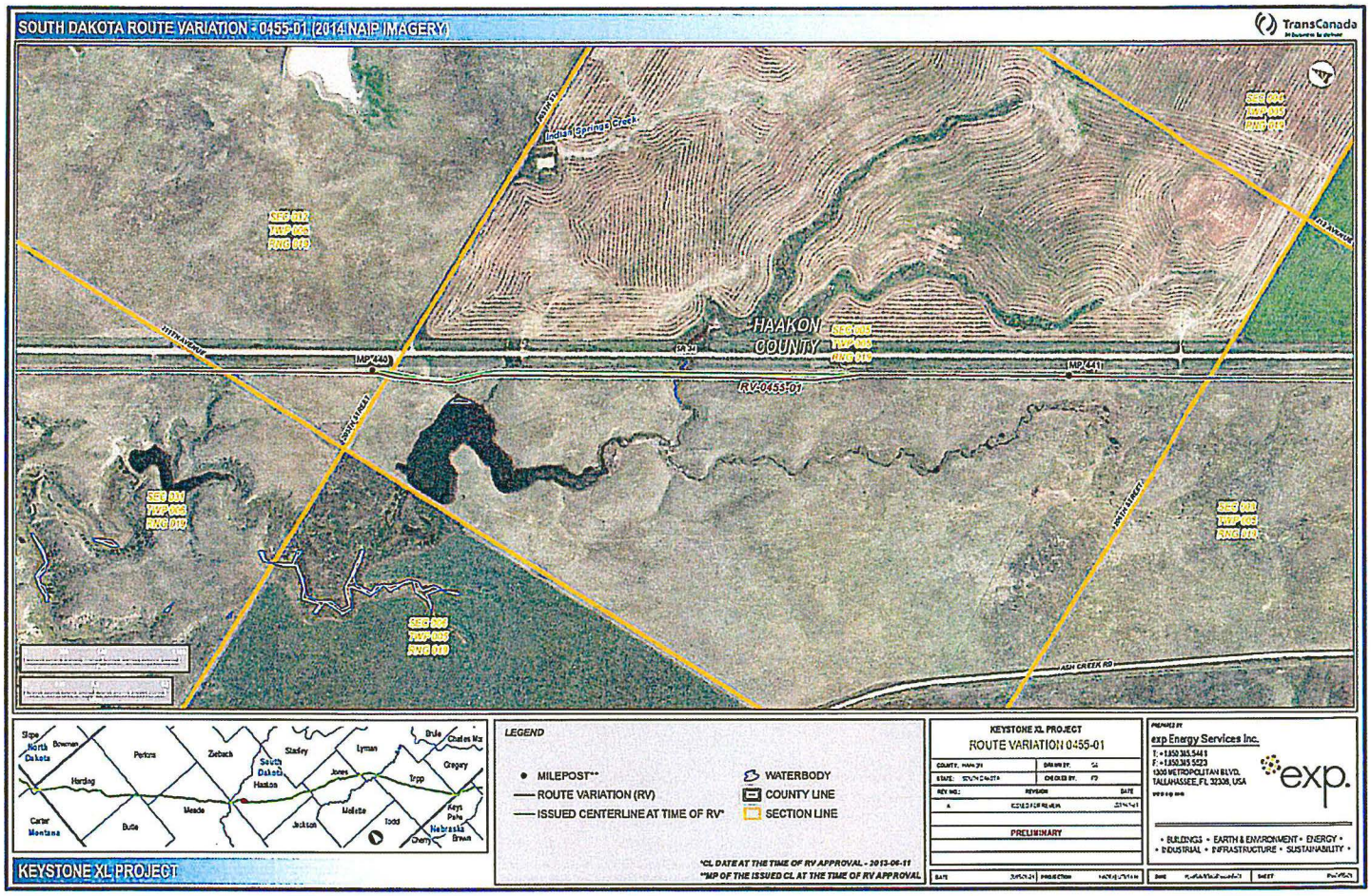

SOUTH DAKOTA ROUTE VARIATION - 0252-02 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
PENNINGTON COUNTY
Cheyenne River
Marcella Creek
Mirage Creek
RV0252-001
RV0252-002
RV0252-003
MP 427
MP 428
MP 429
SEC 001
TWP 007
RNG 007
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-07-13
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0252-02
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

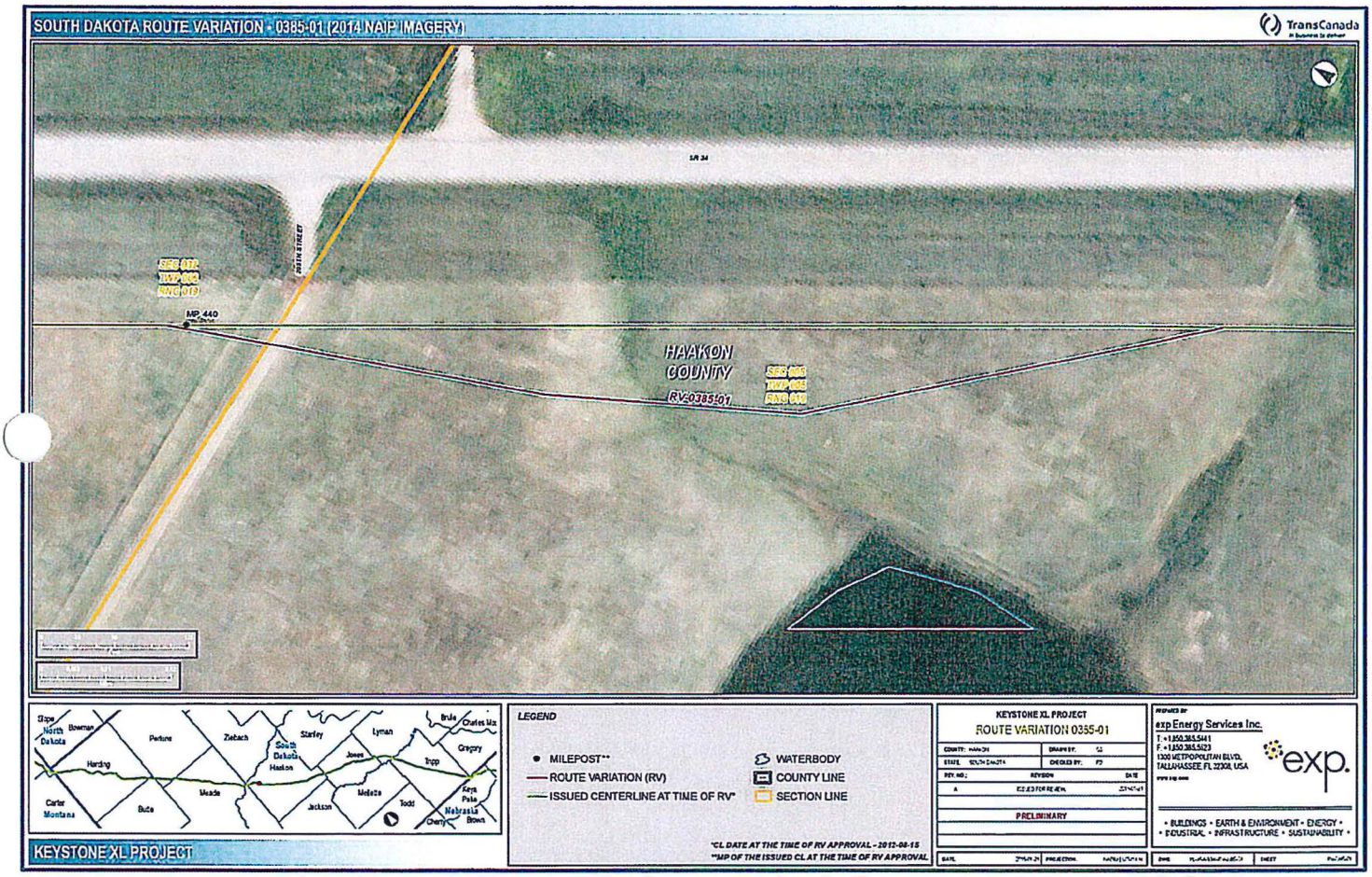

SOUTH DAKOTA ROUTE VARIATION - 0512-02 (2014 NAIP IMAGERY)
TransCanada
MEADE COUNTY
MP 429
RV-0512-02
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Harding
Haakon
Stanley
Lyman
Jones
Brule
Charles Mix
Gregory
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0512-02
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT

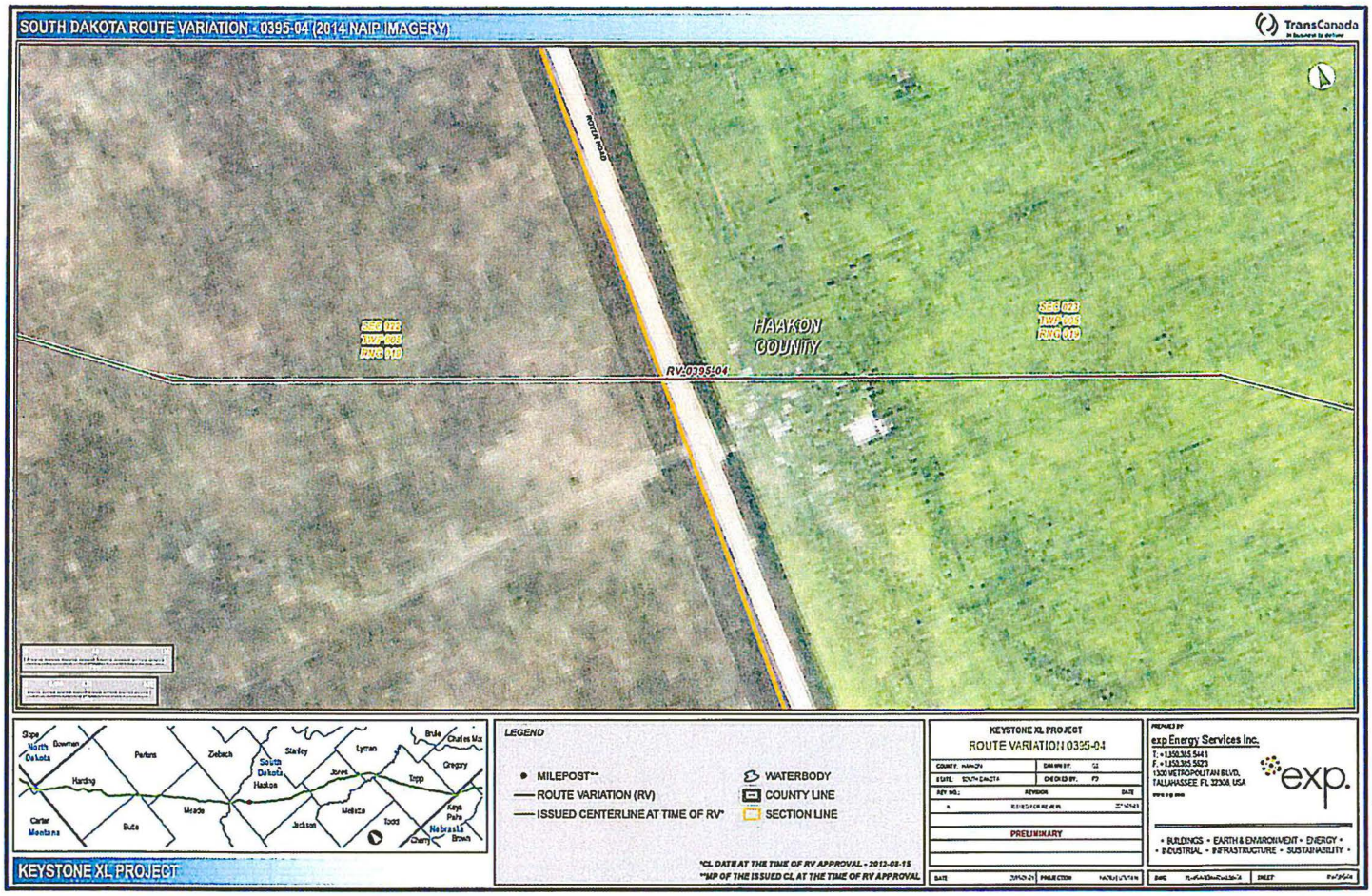

SOUTH DAKOTA ROUTE VARIATION - 0252-03 (2014 NAIP IMAGERY)
TransCanada
ZIEBACH COUNTY
MEADE COUNTY
PENNINGTON COUNTY
RV 0252-01
MP 429
MP 430
MP 431
MP 432
MP 433
MP 434
MP 435
MP 436
Narcelle Creek
Cheyenne River
Rabbit Creek
Indian Spring Creek
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-07-13
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0252-03
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

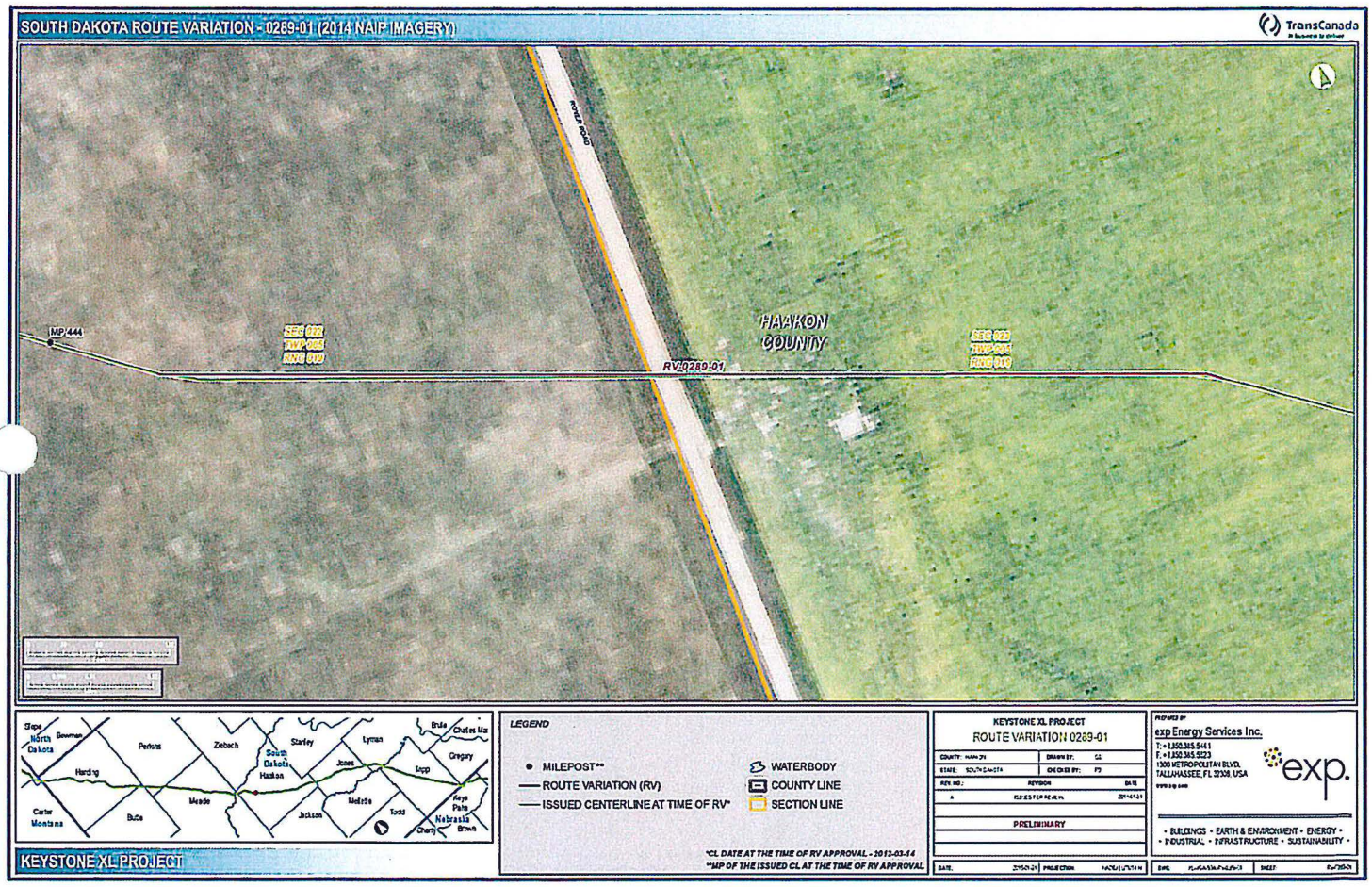

SOUTH DAKOTA ROUTE VARIATION - 0543-01 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
RV-0543-01
MP 435
SEC 01N
TWP 43N
RNG 81E
SEC 01N
TWP 43N
RNG 81E
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Chadron Ma
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Meade
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
Butte
Jackson
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0543-01
PRELIMINARY
exp Energy Services Inc.
T. +1.850.385.5441
F. +1.850.385.5523
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

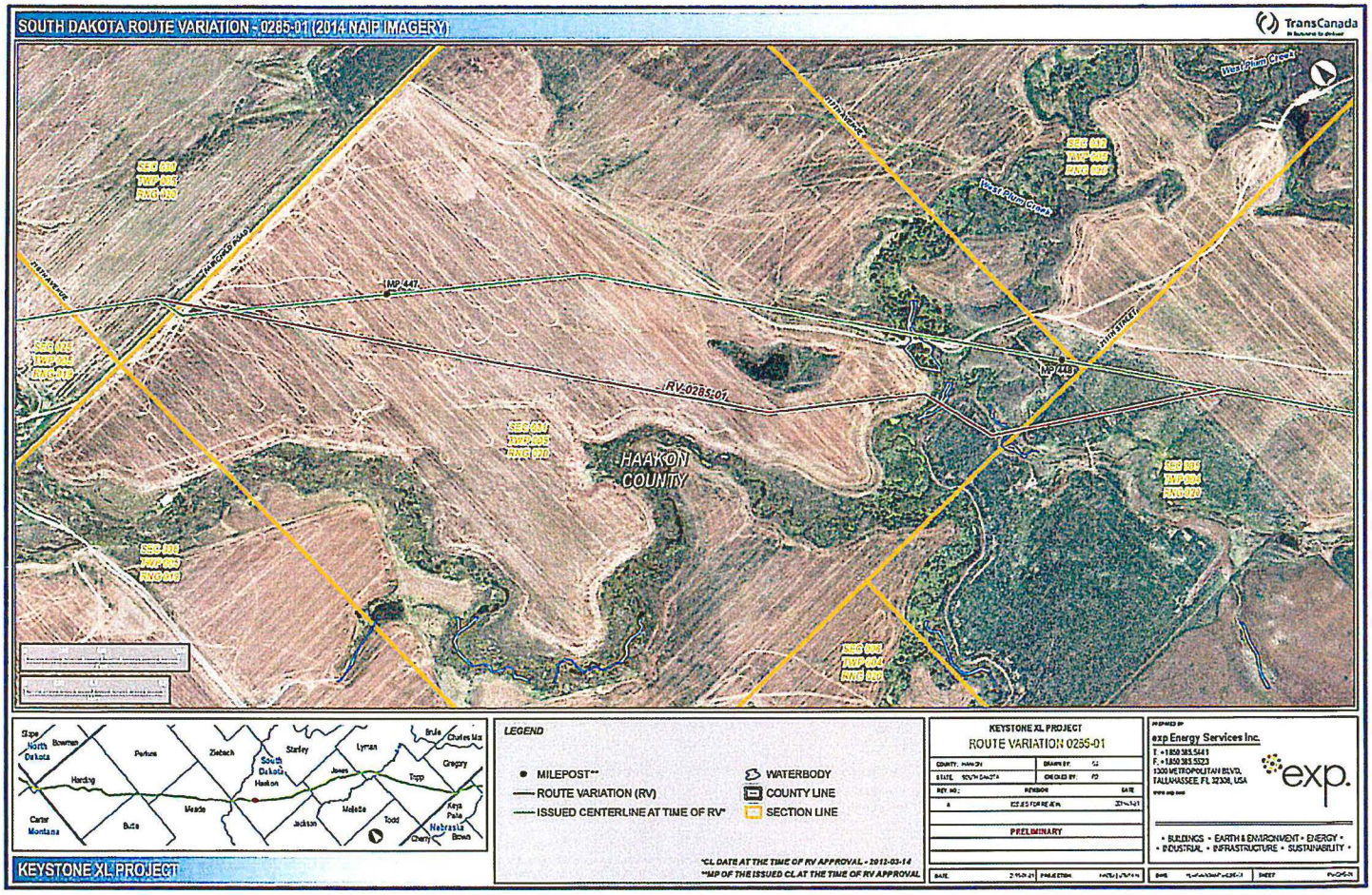

SOUTH DAKOTA ROUTE VARIATION - 0372-01 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
MP 435
RV 0372-01
MP 436
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0372-01
PRELIMINARY
exp Energy Services Inc.
exp.
KEYSTONE XL PROJECT

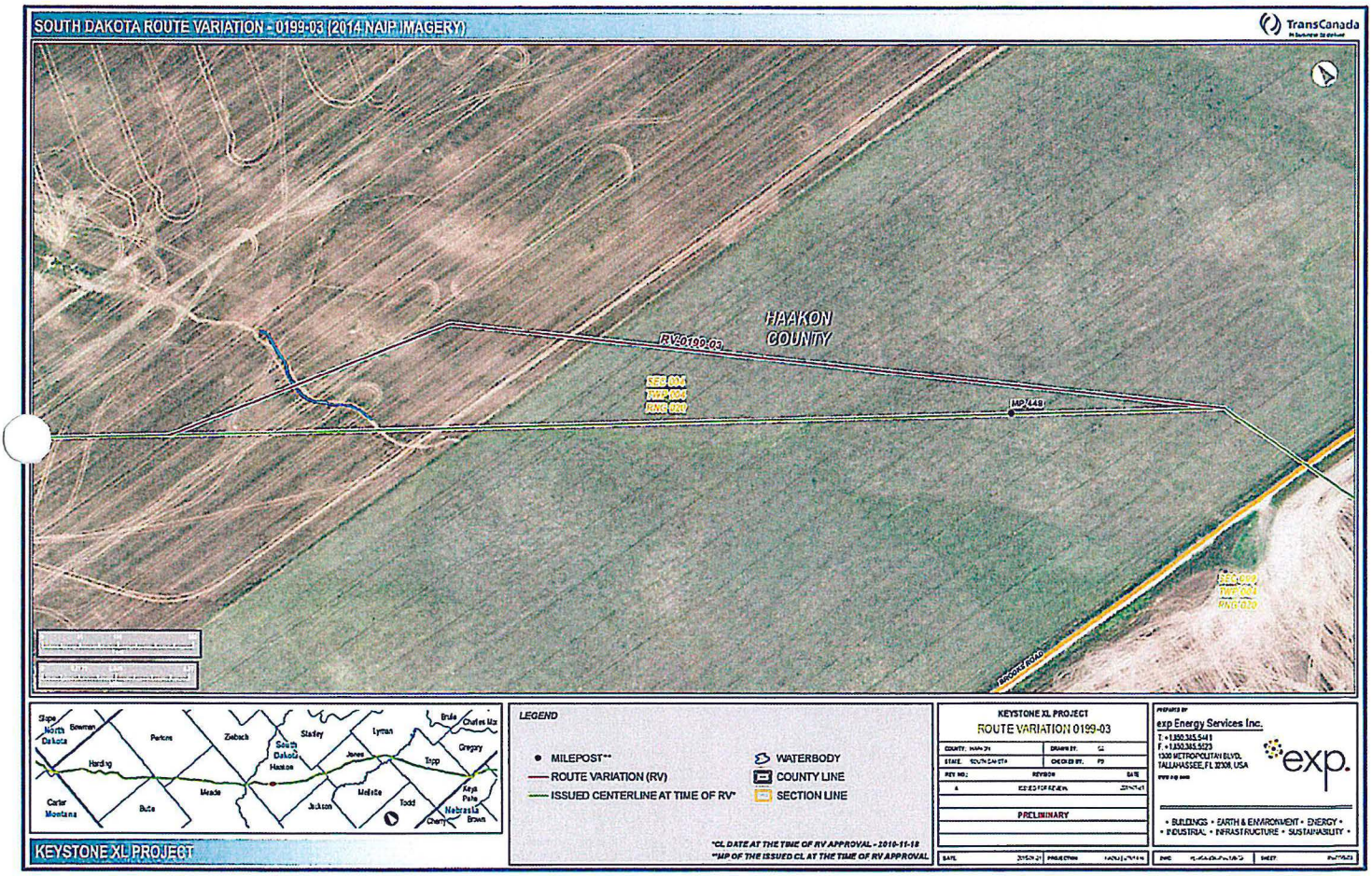

SOUTH DAKOTA ROUTE VARIATION - 0455-01 (2014 NAIP IMAGERY)
TransCanada
India Springs Creek
HAAKON COUNTY
MP 440
MP 441
RV-0455-01
NORTH STREET
ASH CREEK RD
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0455-01
PRELIMINARY
exp Energy Services Inc.
exp.
KEYSTONE XL PROJECT

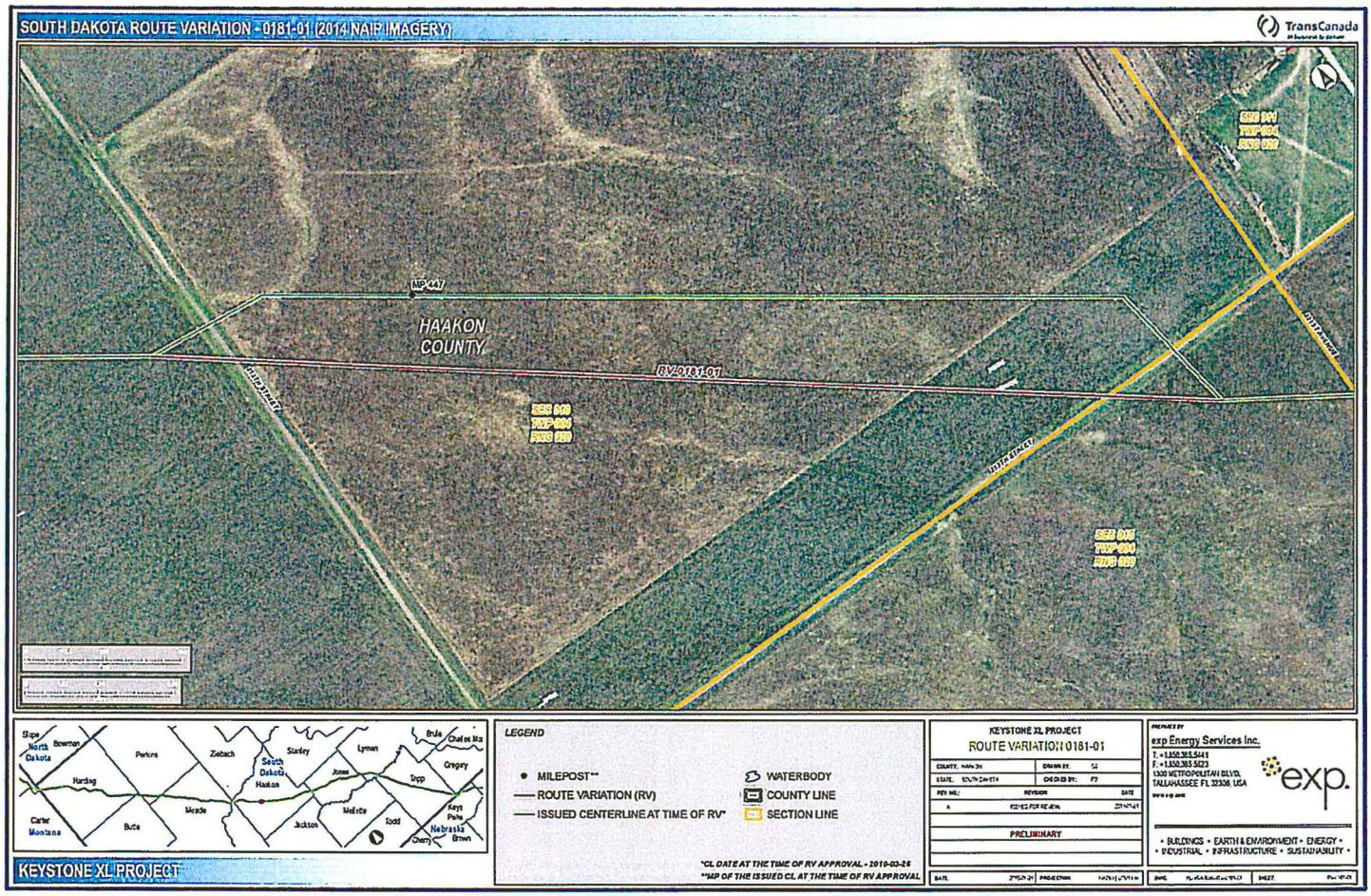

SOUTH DAKOTA ROUTE VARIATION - 0385-01 (2014 NAIP IMAGERY)
TransCanada
SR 34
206TH STREET
SEC 012
TWP 043
RNG 013
MP 440
HAAKON COUNTY
RV-0385-01
SEC 005
TWP 042
RNG 010
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Harding
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0355-01
COUNTY:
STATE:
DRAWN BY:
CHECKED BY:
REV. NO.:
REVISION
DATE
A
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5023
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET

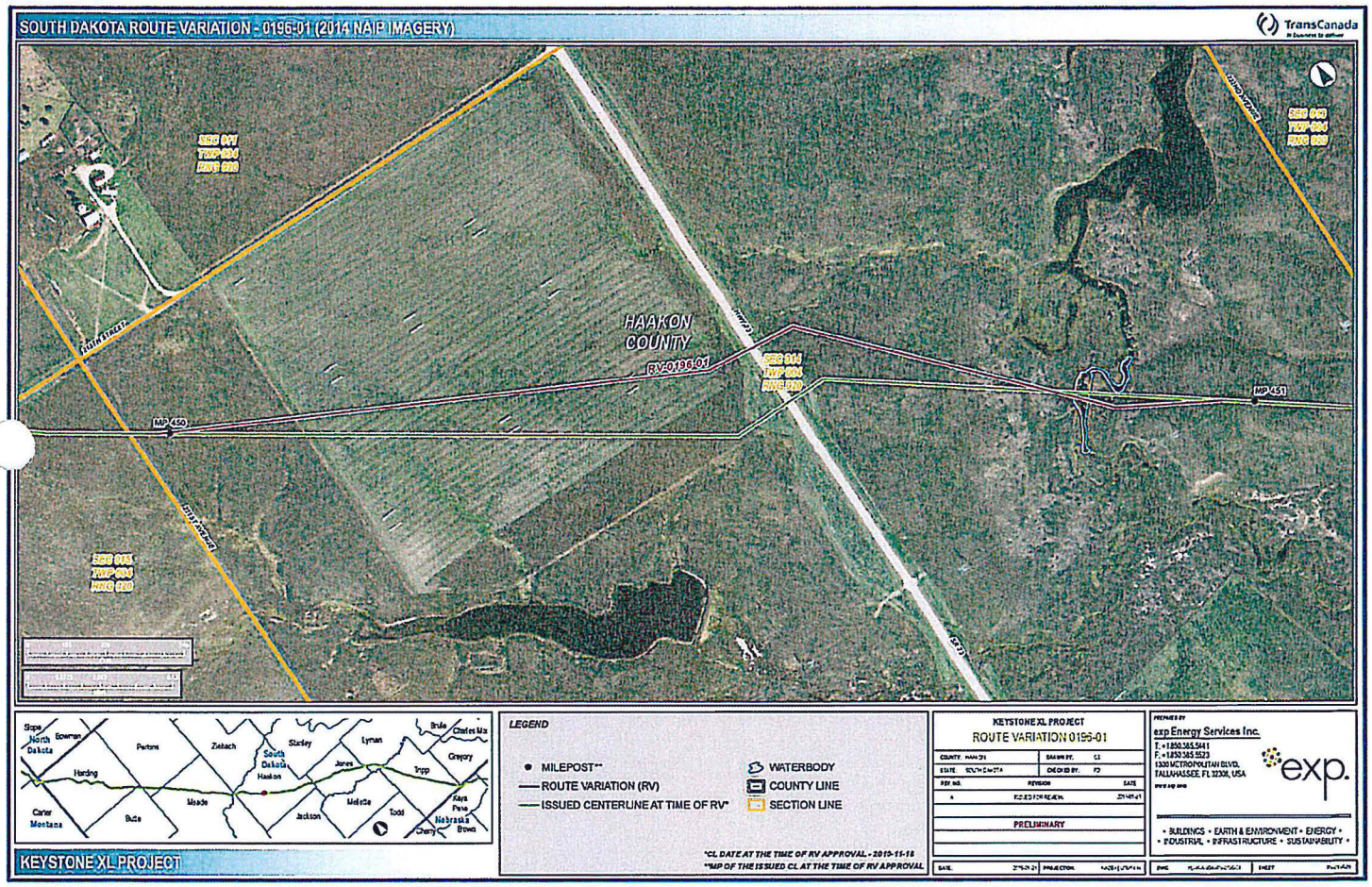

SOUTH DAKOTA ROUTE VARIATION 0395-04 (2014 NAIP IMAGERY)
TransCanada
ROUTE ROAD
HAAKON COUNTY
RV-0395-04
SEC 023
TWP 005
RNG 019
SEC 022
TWP 005
RNG 019
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATA AT THE TIME OF RV APPROVAL - 2012-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0395-04
COUNTY
STATE
REV NO.
REVISION
DATE
PRELIMINARY
PREPARED BY
exp Energy Services Inc.
T. +1.850.385.5441
F. +1.850.385.5023
1320 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
DATE
PROJECTION
SHEET

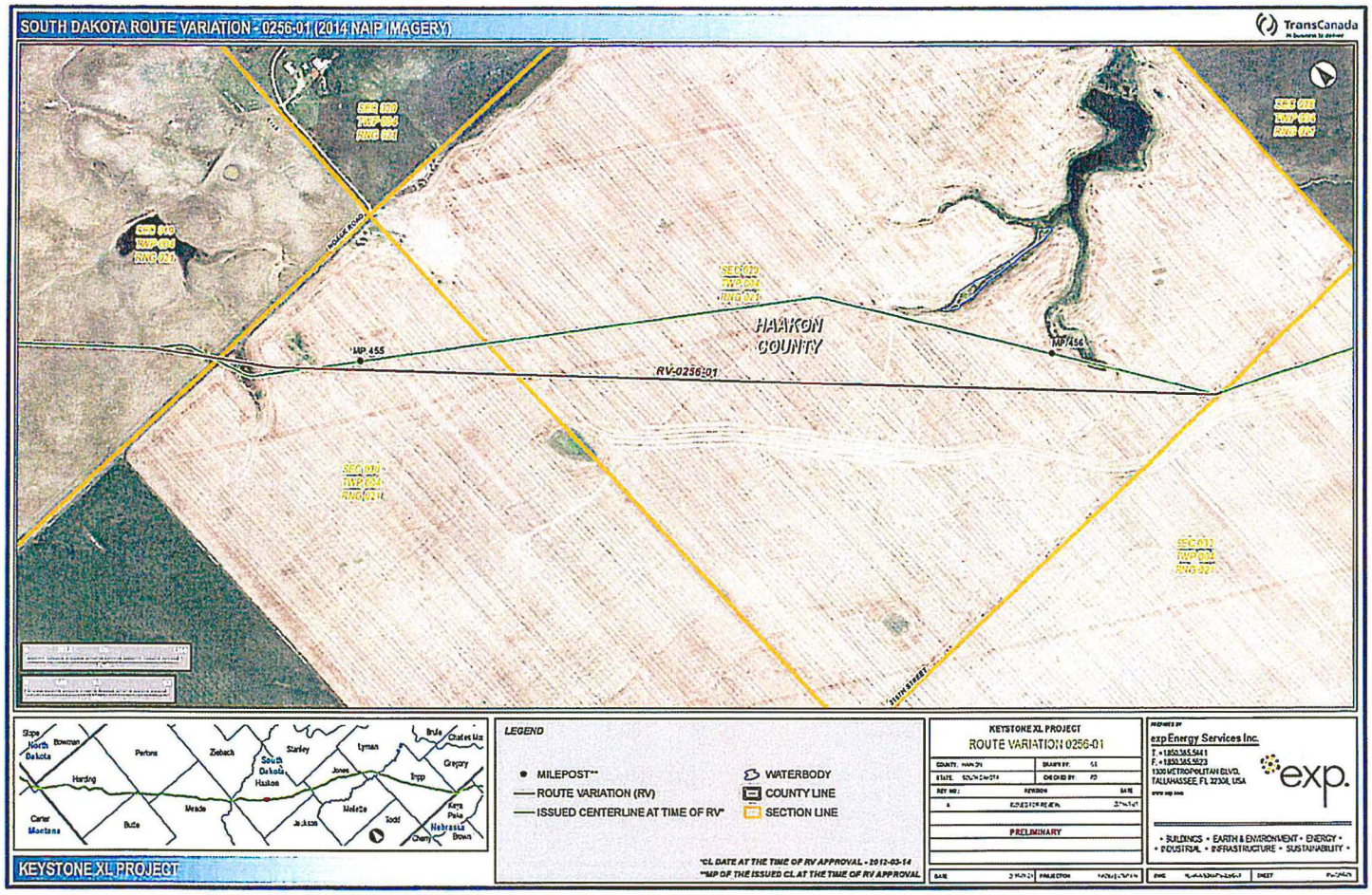

SOUTH DAKOTA ROUTE VARIATION - 0289-01 (2014 NAIP IMAGERY)
TransCanada
MP 444
SEC 022
TWP 005
RNG 019
RV 0289-01
HAAKON COUNTY
SEC 023
TWP 005
RNG 019
Stanley
Perkins
Ziebach
Lyman
Brule
Chaffee Mc
Gregory
Bowman
Harding
Jones
Lugo
Meade
Butte
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Carter
Montana
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0289-01
PRELIMINARY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5223
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

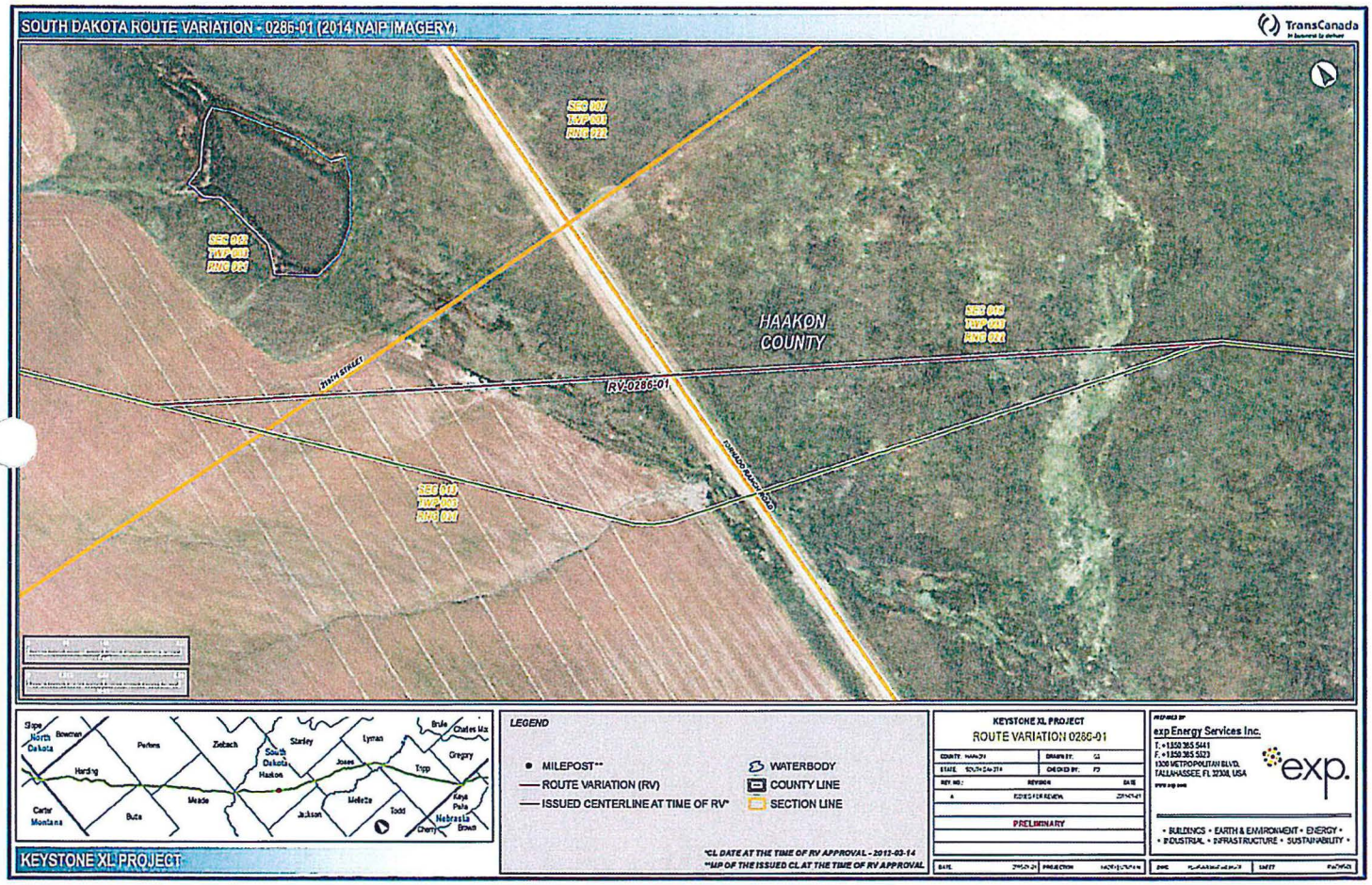

SOUTH DAKOTA ROUTE VARIATION - 0285-01 (2014 NAIP IMAGERY)
TransCanada
MP 447
MP 448
RV-0285-01
HAAKON COUNTY
West Plum Creek
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0285-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT

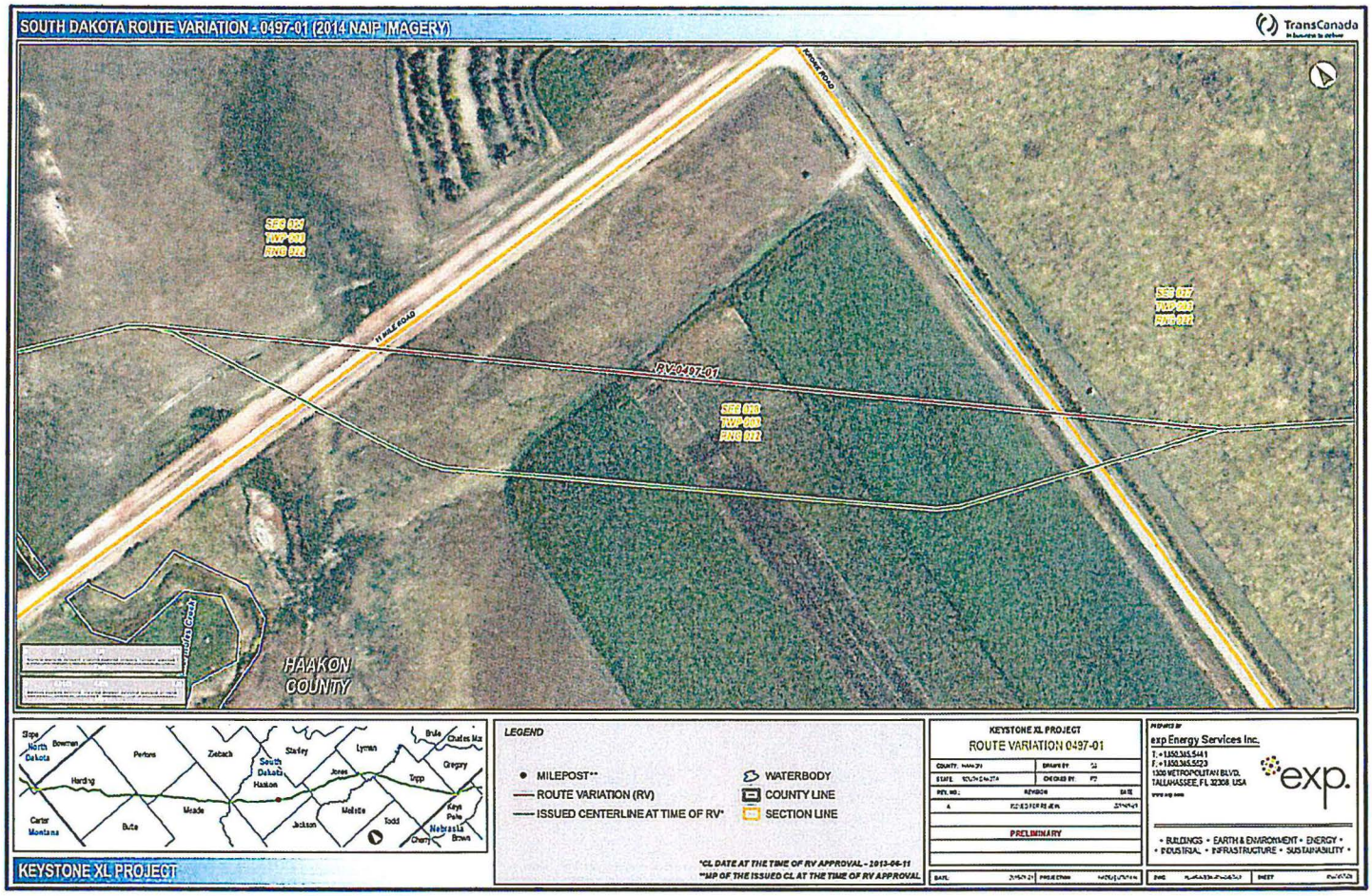

SOUTH DAKOTA ROUTE VARIATION - 0199-03 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
RV-0199-03
MP 143
SEC-004
TWP-004
RNG-020
SEC-002
TWP-004
RNG-020
BROOKS ROAD
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
Butte
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0199-03
COUNTY: HAAKON
DRAWN BY: GL
STATE: SOUTH DAKOTA
CHECKED BY: FD
REV NO.: REVISION DATE
A ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T. +1.850.385.5481
F. +1.850.385.5223
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET

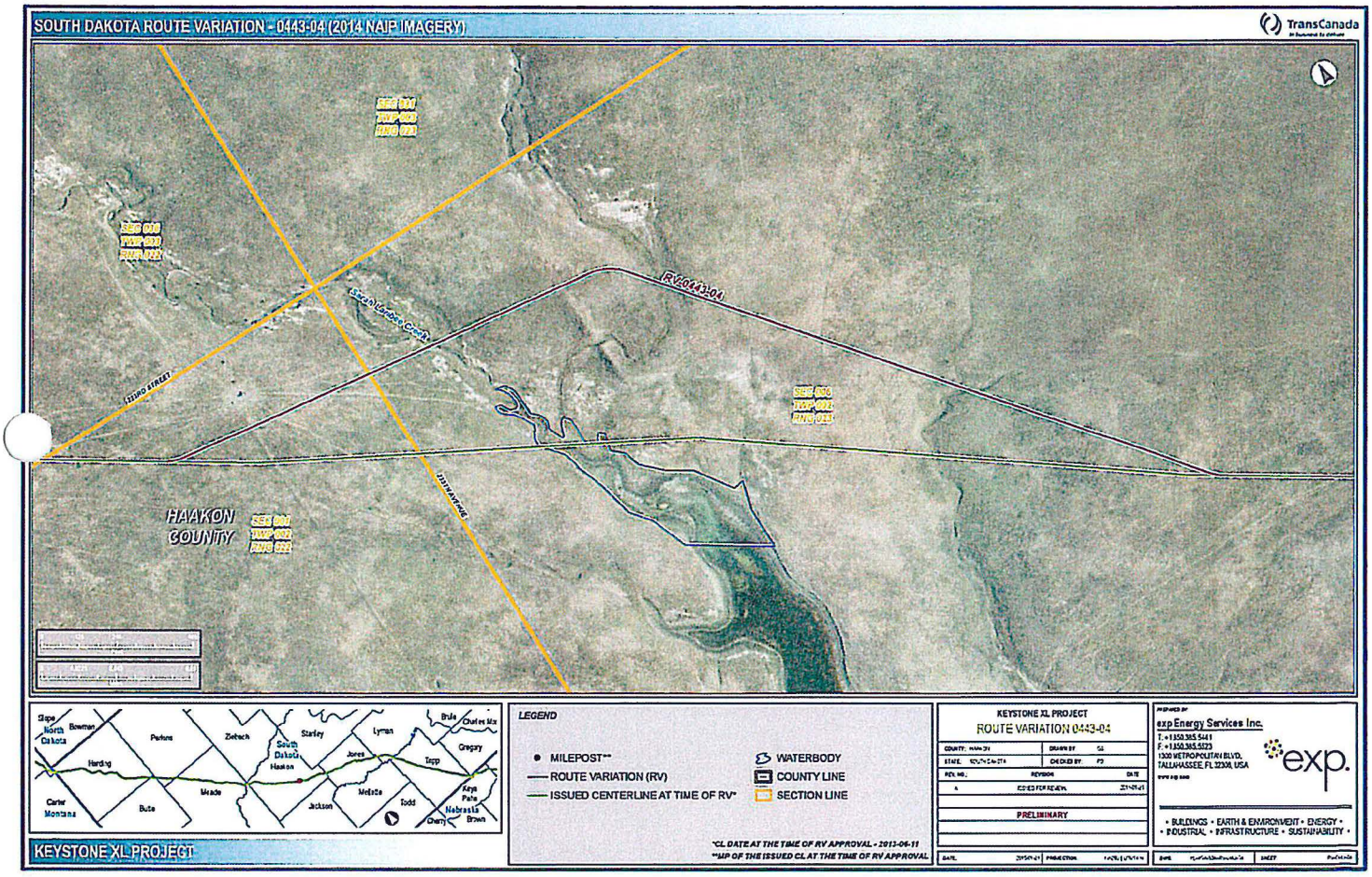

SOUTH DAKOTA ROUTE VARIATION - 0181-01 (2014 NAIP IMAGERY)
TransCanada
MP 447
HAAKON COUNTY
RV-0181-01
SEC 04
TWP 004
RNG 019
SEC 05
TWP 004
RNG 019
SEC 08
TWP 004
RNG 019
SEC 09
TWP 004
RNG 019
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Chelan Ma
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Meade
Mellette
Todd
Keya Paha
Carter
Montana
Butte
Jackson
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-03-26
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0181-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

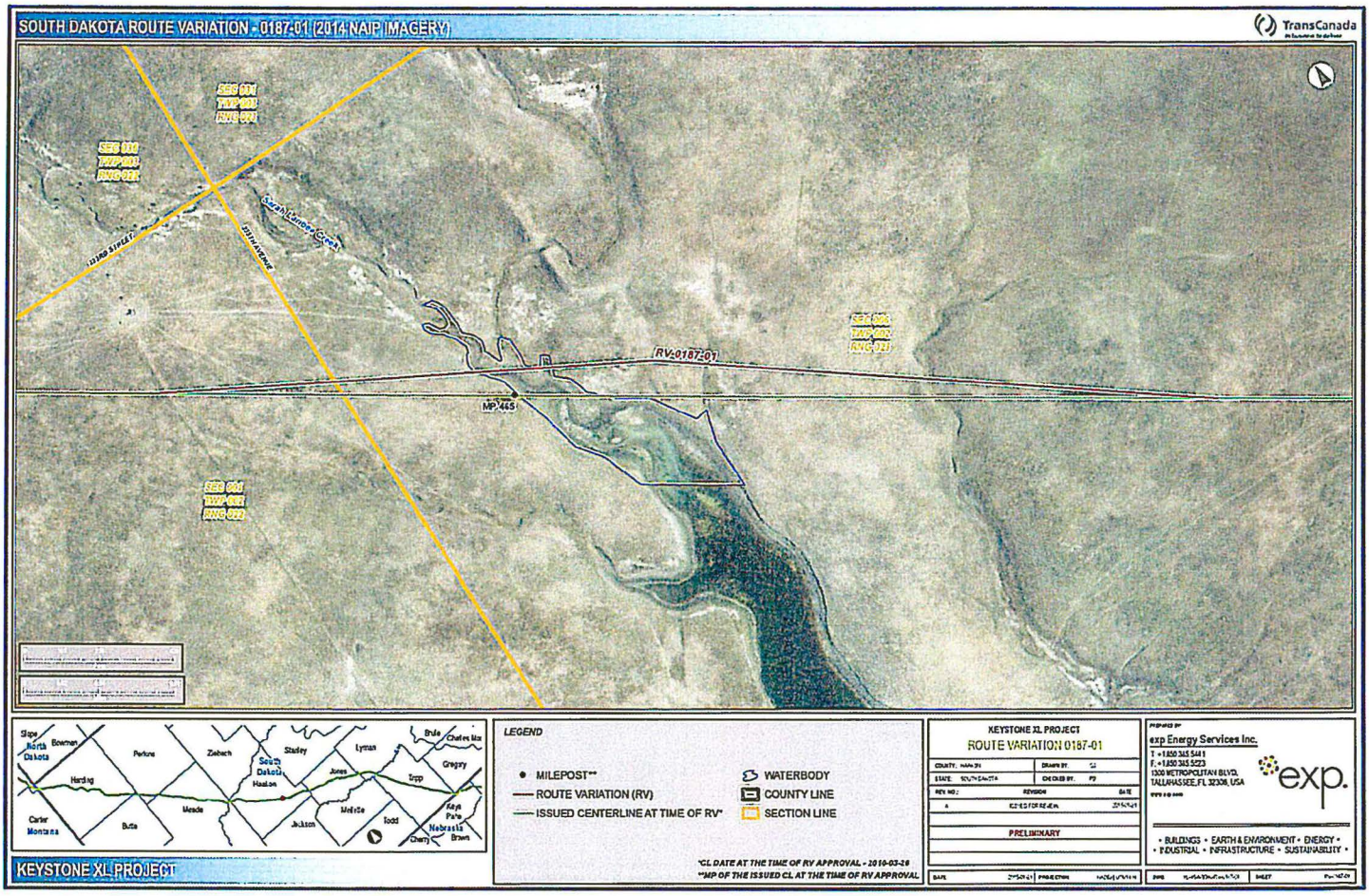

SOUTH DAKOTA ROUTE VARIATION - 0196-01 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
RV-0196-01
MP 450
MP 451
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0196-01
PRELIMINARY
exp Energy Services Inc.
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0256-01 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
MP 455
MP 456
RV-0256-01
DOGIE ROAD
SECTION LINE
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Jones
Brule
Chutes Ute
Gregory
Tripp
Harding
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0256-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0286-01 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
RV 0286-01
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0286-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0497-01 (2014 NAIP IMAGERY)
TransCanada
11 MILE ROAD
RV-0497-01
HAAKON COUNTY
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0497-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0443-04 (2014 NAIP IMAGERY)
TransCanada
RV0443-04
HAAKON COUNTY
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0443-04
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0187-01 (2014 NAIP IMAGERY)
TransCanada
SEC 006
TWP 001
RNG 021
SEC 005
TWP 001
RNG 021
SEC 008
TWP 001
RNG 022
SEC 007
TWP 001
RNG 022
132ND STREET
331ST AVENUE
South Viburg Creek
RV-0187-01
MP 465
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-03-26
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0187-01
COUNTY:
DRAWN BY:
STATE: SOUTH DAKOTA
CHECKED BY:
REV NO.:
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T. +1.850.385.5481
F. +1.850.385.5623
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
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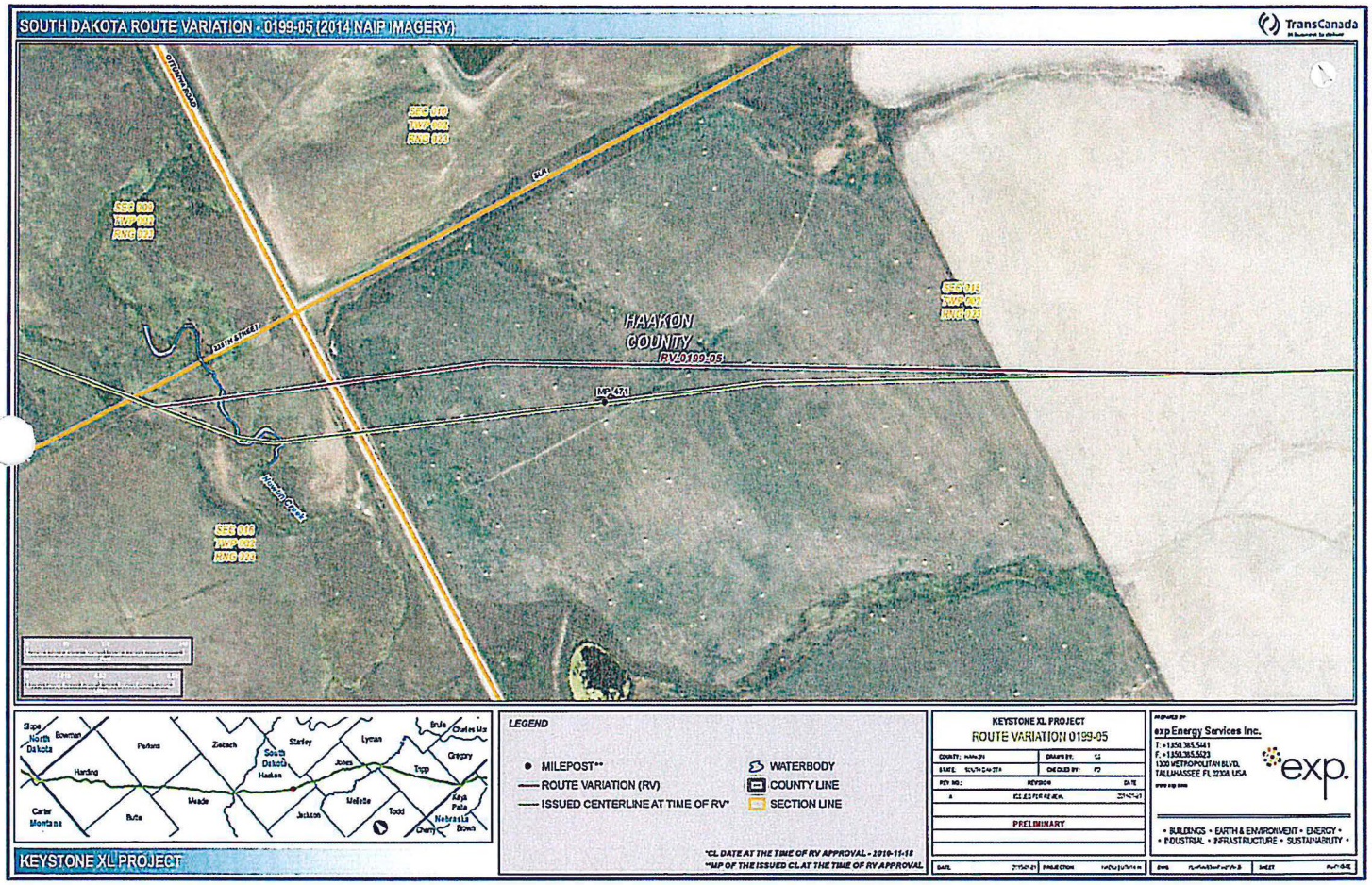
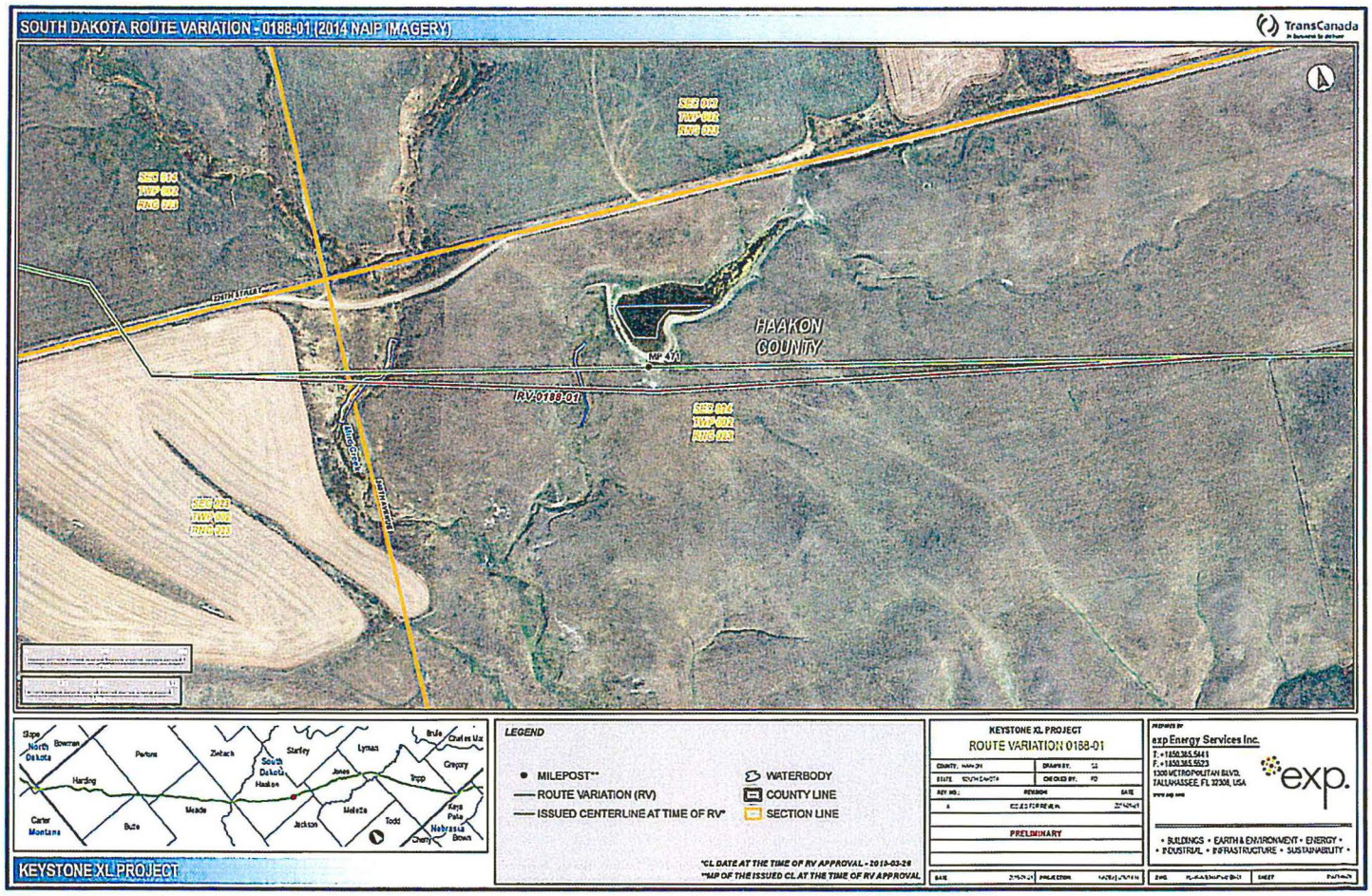
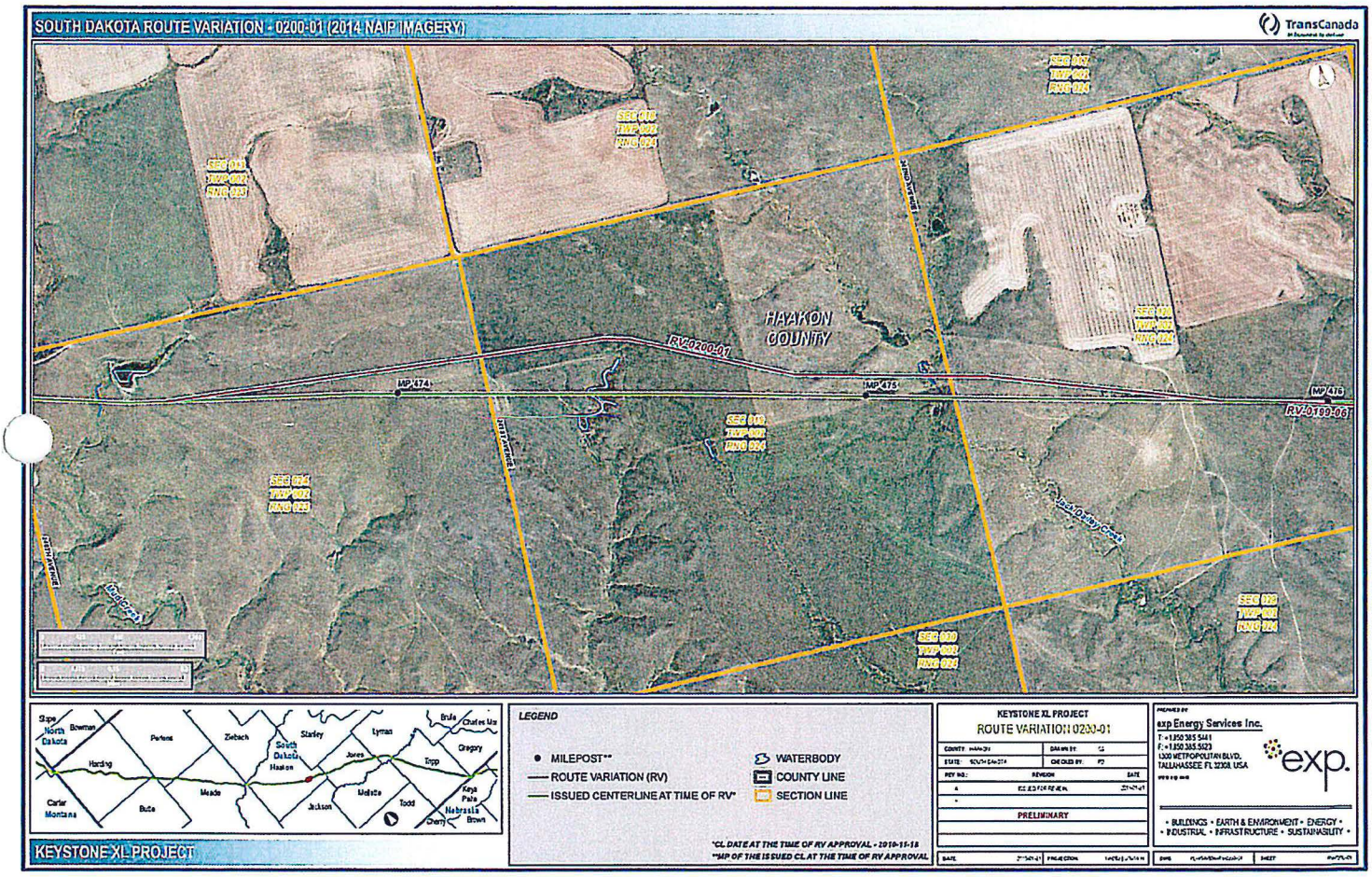

SOUTH DAKOTA ROUTE VARIATION - 0199-05 (2014 NAIP IMAGERY)
TransCanada
OTTAWA ROAD
SEC 010
TWP 002
RNG 003
CL
SEC 009
TWP 002
RNG 003
SEC 016
TWP 002
RNG 003
HAAKON
COUNTY
RV-0199-05
MP 471
SEC 010
TWP 002
RNG 003
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0199-05
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0188-01 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
MP 47.1
RV 0188-01
SEC 002
TWP 002
RNG 020
SEC 004
TWP 002
RNG 020
SEC 003
TWP 002
RNG 020
SEC 001
TWP 002
RNG 020
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Starley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-03-26
**MAP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0188-01
PRELIMINARY
exp Energy Services Inc.
T. +1 850.385.5441
F. +1 850.385.5523
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0200-01 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
RV-0200-01
RV-0100-06
MP 474
MP 475
MP 476
SEC 014 TWP 002 RNG 024
SEC 013 TWP 002 RNG 024
SEC 018 TWP 002 RNG 025
SEC 019 TWP 002 RNG 024
SEC 024 TWP 002 RNG 025
SEC 020 TWP 002 RNG 024
SEC 023 TWP 002 RNG 024
SEC 030 TWP 002 RNG 025
Slope
North Dakota
Bowman
Harding
Perkins
Ziebach
South Dakota
Haakon
Stanley
Jones
Lyman
Brule
Charles Mix
Gregory
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0200-01
PRELIMINARY
exp Energy Services Inc.
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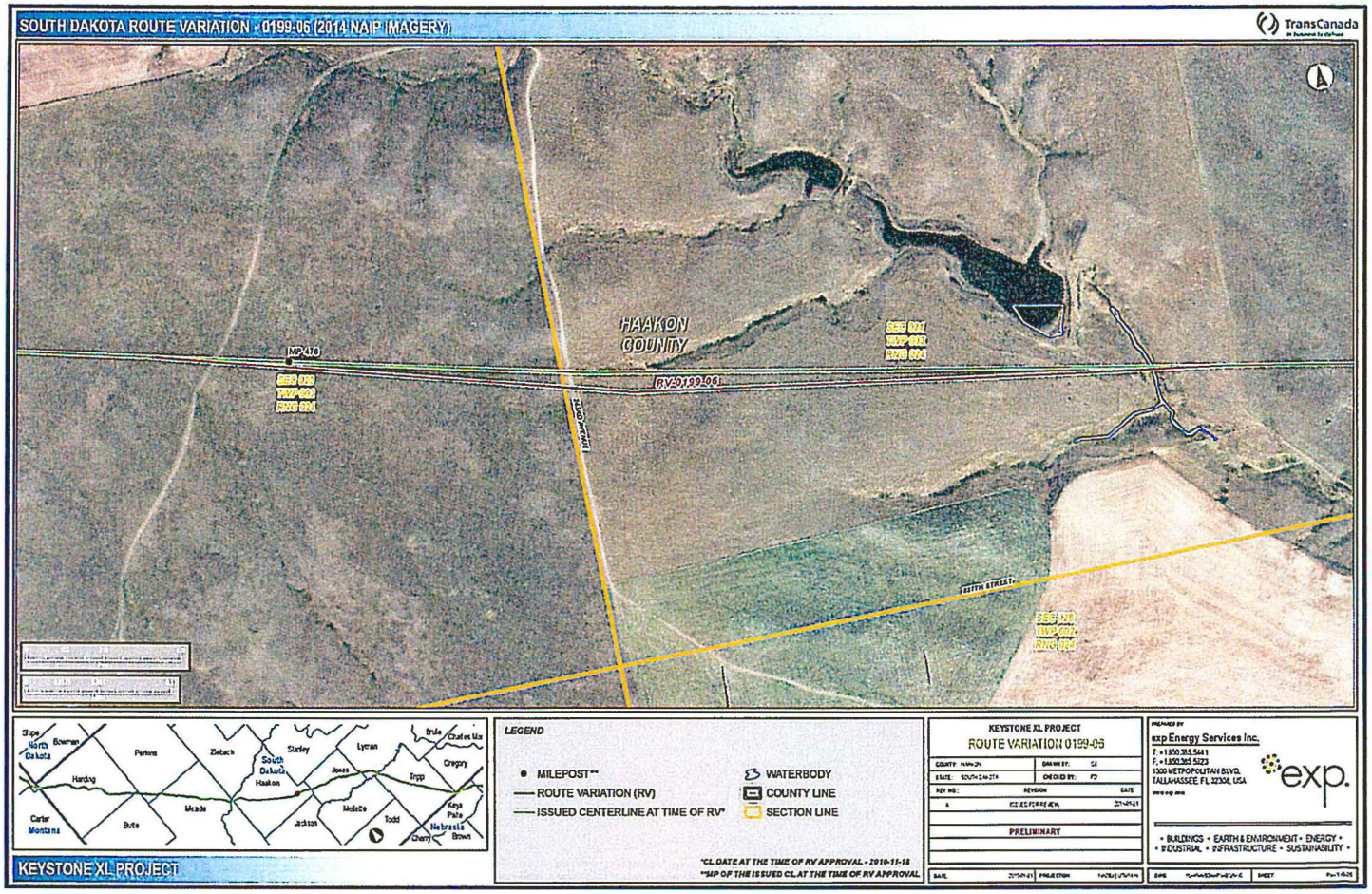
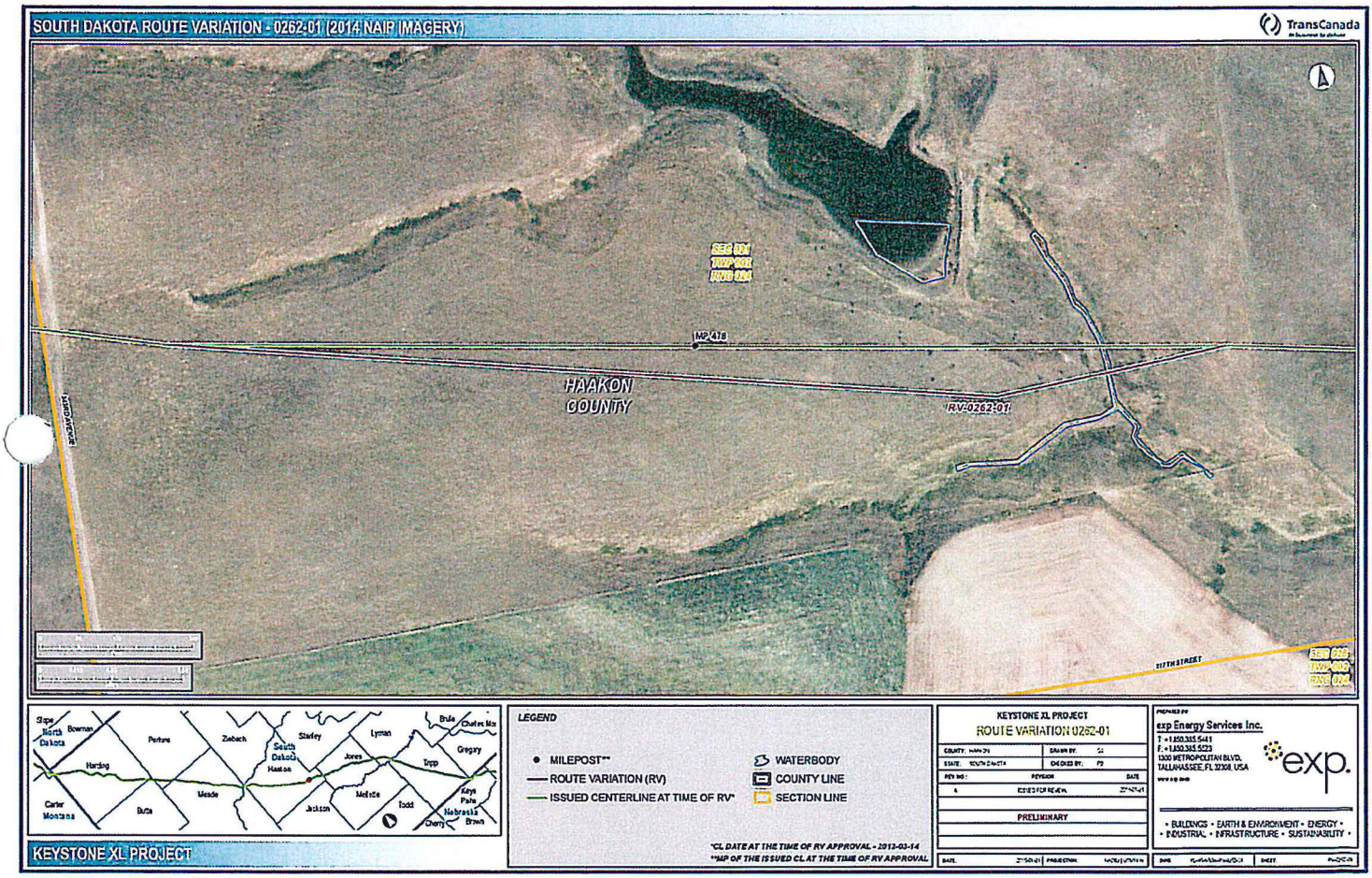
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0199-06 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
MP 410
RV-0199-06
SEC 020
TWP 002
RNG 024
SEC 021
TWP 002
RNG 024
SEC 028
TWP 002
RNG 024
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0199-06
PRELIMINARY
exp Energy Services Inc.
exp.
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0262-01 (2014 NAIP IMAGERY)
TransCanada
SEC 001
TWP 002
RNG 004
MP 478
HAAKON COUNTY
RV-0262-01
HAYD AVENUE
SIXTH STREET
SEC 005
TWP 002
RNG 004
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0262-01
PRELIMINARY
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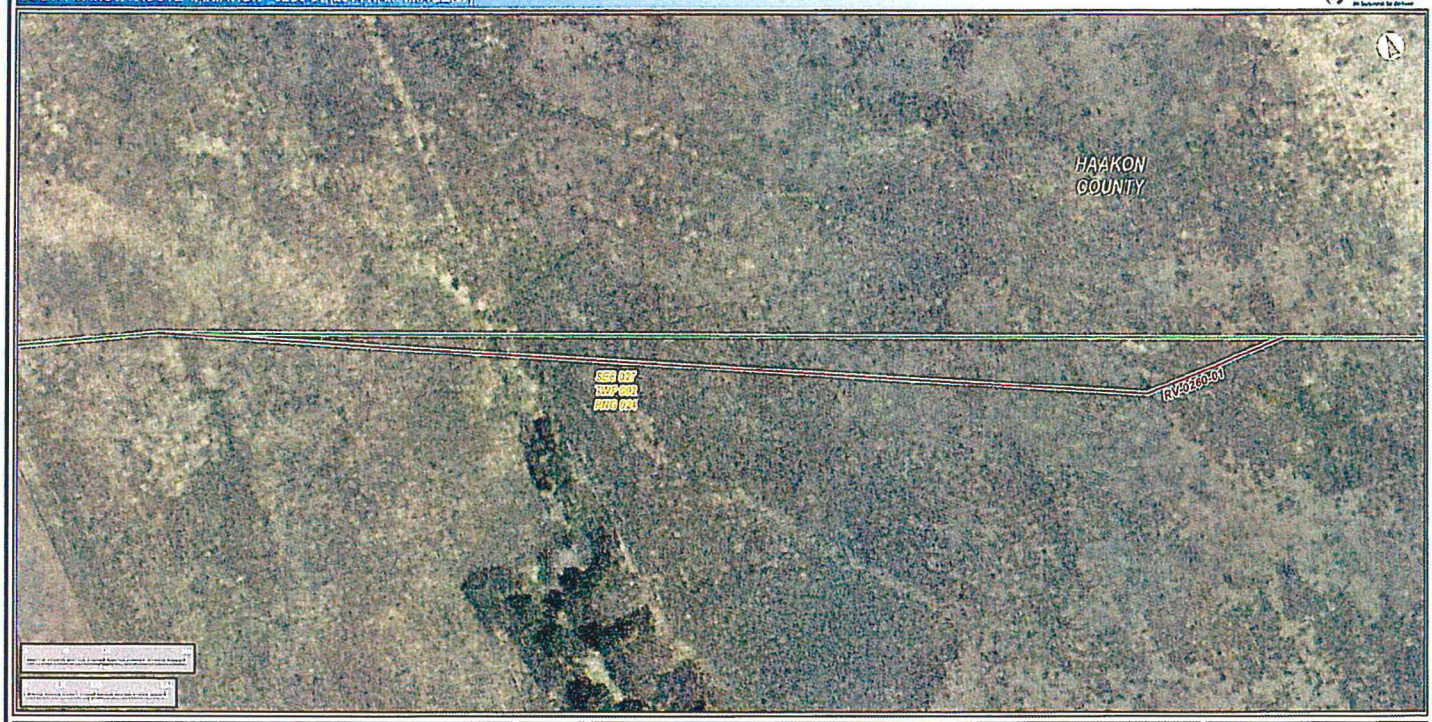
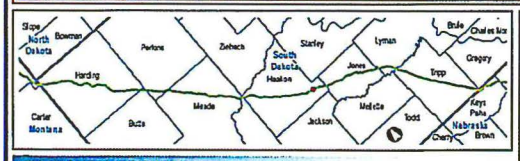
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

SOUTH DAKOTA ROUTE VARIATION - 0260-01 (2014 NAIP IMAGERY)

TransCanada





KEYSTONE XL PROJECT

LEGEND

- MILEPOST**
- ROUTE VARIATION (RV)
- ISSUED CENTERLINE AT TIME OF RV*
- WATERBODY
- COUNTY LINE
- SECTION LINE

*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL

KEYSTONE XL PROJECT
ROUTE VARIATION 0260-01

COUNTY: HAAKON	DRAWN BY: [illegible]
STATE: SOUTH DAKOTA	CHECKED BY: [illegible]

REV NO.:	REVISION	DATE
0	ISSUED FOR REVIEW	[illegible]

PRELIMINARY

DATE [illegible] PROJECTION [illegible]

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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

FILE [illegible] SHEET [illegible]

SOUTH DAKOTA ROUTE VARIATION - 0260-02 (2014 NAIP IMAGERY)

TransCanada

KEYSTONE XL PROJECT

LEGEND

- MILEPOST**
- ROUTE VARIATION (RV)
- ISSUED CENTERLINE AT TIME OF RV*
- WATERBODY
- COUNTY LINE
- SECTION LINE

*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL

KEYSTONE XL PROJECT
ROUTE VARIATION 0260-02

COUNTY: HAAKON	DRAWN BY: [illegible]
STATE: SOUTH DAKOTA	CHECKED BY: FZ

REV NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	[illegible]

PRELIMINARY

DATE [illegible] PROJECTION [illegible]

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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

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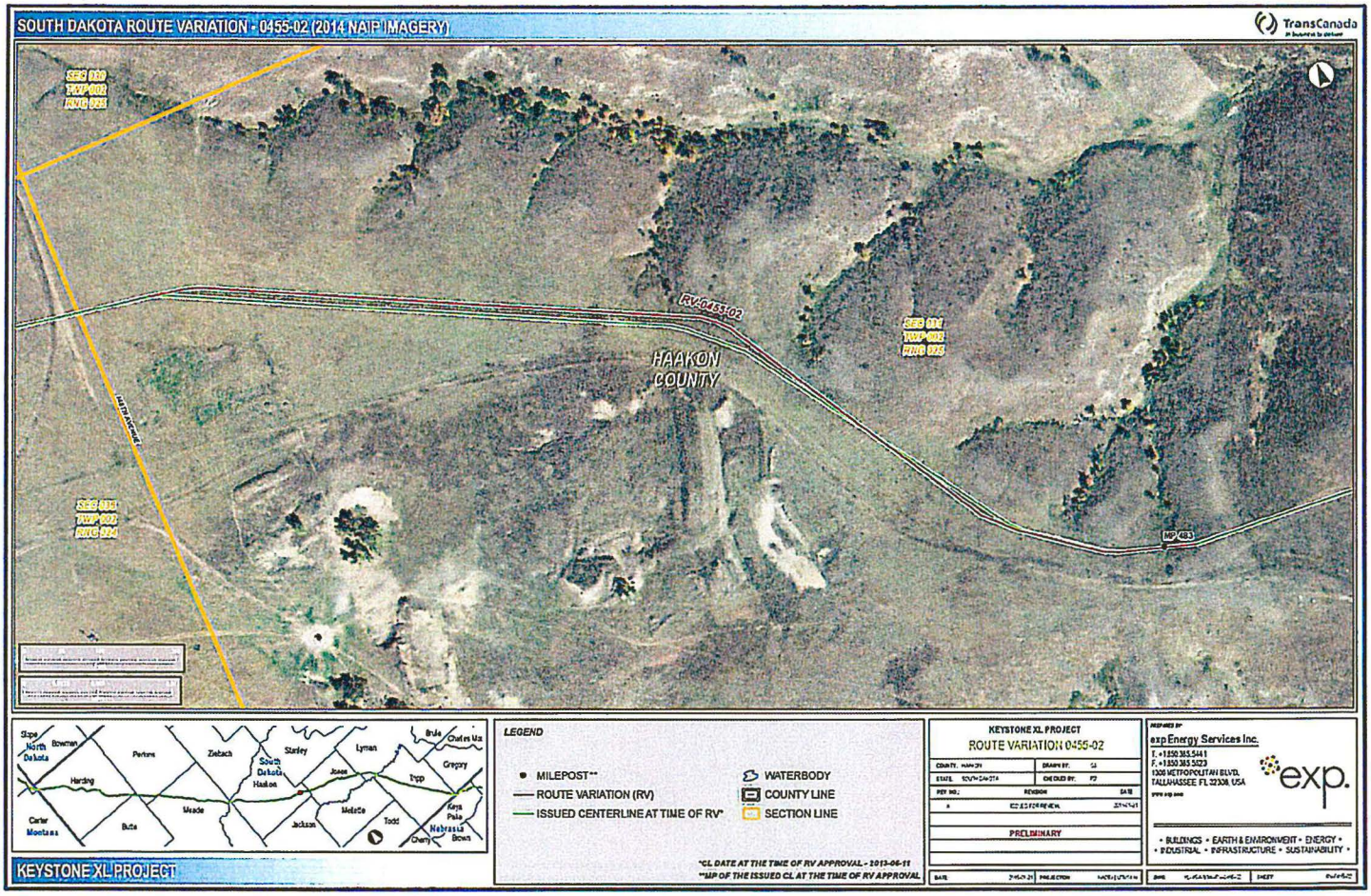
SOUTH DAKOTA ROUTE VARIATION - 0455-02 (2014 NAIP IMAGERY)
TransCanada
RV-0455-02
HAAKON COUNTY
MP 483
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0455-02
PRELIMINARY
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exp.
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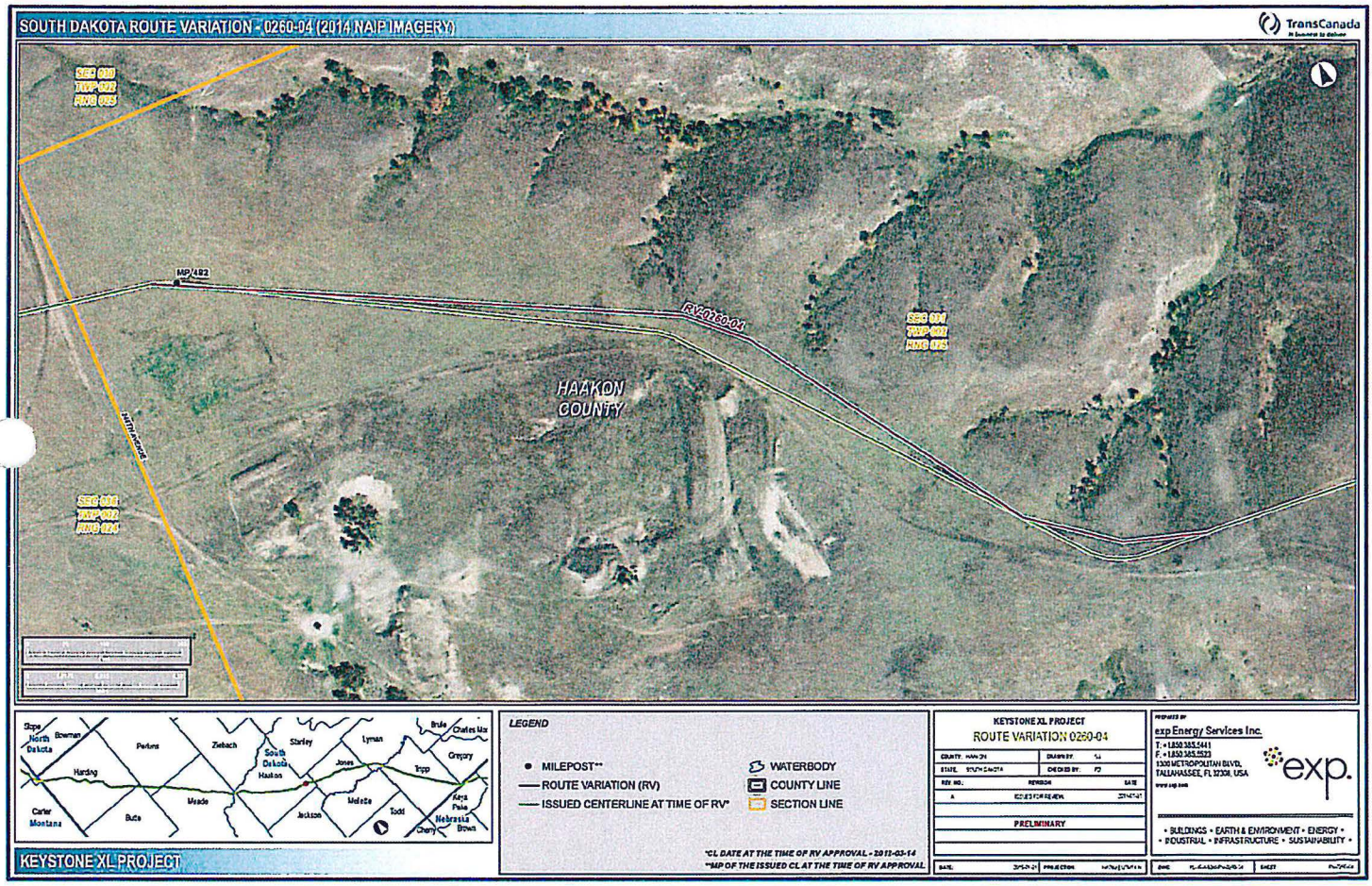
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0260-04 (2014 NAIP IMAGERY)
TransCanada
SEC 001
TWP 002
RNG 015
MP 492
RV-0260-04
HAAKON COUNTY
SEC 001
TWP 002
RNG 014
SEC 001
TWP 002
RNG 015
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Aurora
Davison
Hutchinson
Yankton
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0260-04
COUNTY: HAAKON
DRAWN BY: KJ
STATE: SOUTH DAKOTA
CHECKED BY: FZ
REV NO.
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
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F: +1.850.385.5523
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
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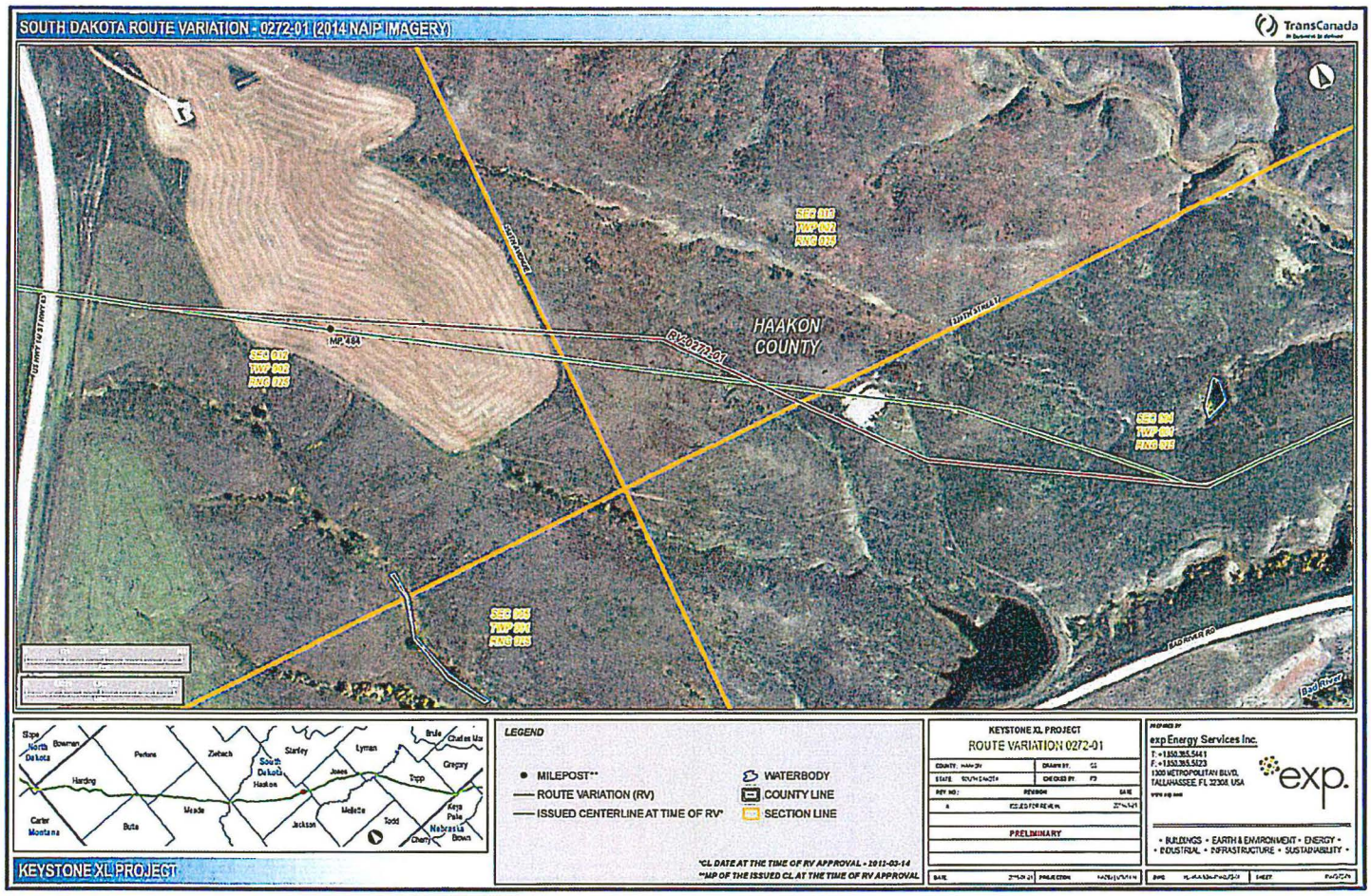
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0272-01 (2014 NAIP IMAGERY)
TransCanada
HAAKON COUNTY
RV-0272-01
MP 48A
SEC 010
TWP 002
RNG 025
SEC 012
TWP 002
RNG 024
SEC 015
TWP 001
RNG 025
SEC 014
TWP 001
RNG 024
SOUTH DAKOTA
BAD RIVER RD
Bad River
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Harding
South Dakota
Haakon
Jones
Tripp
Gregory
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0272-01
PRELIMINARY
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exp.
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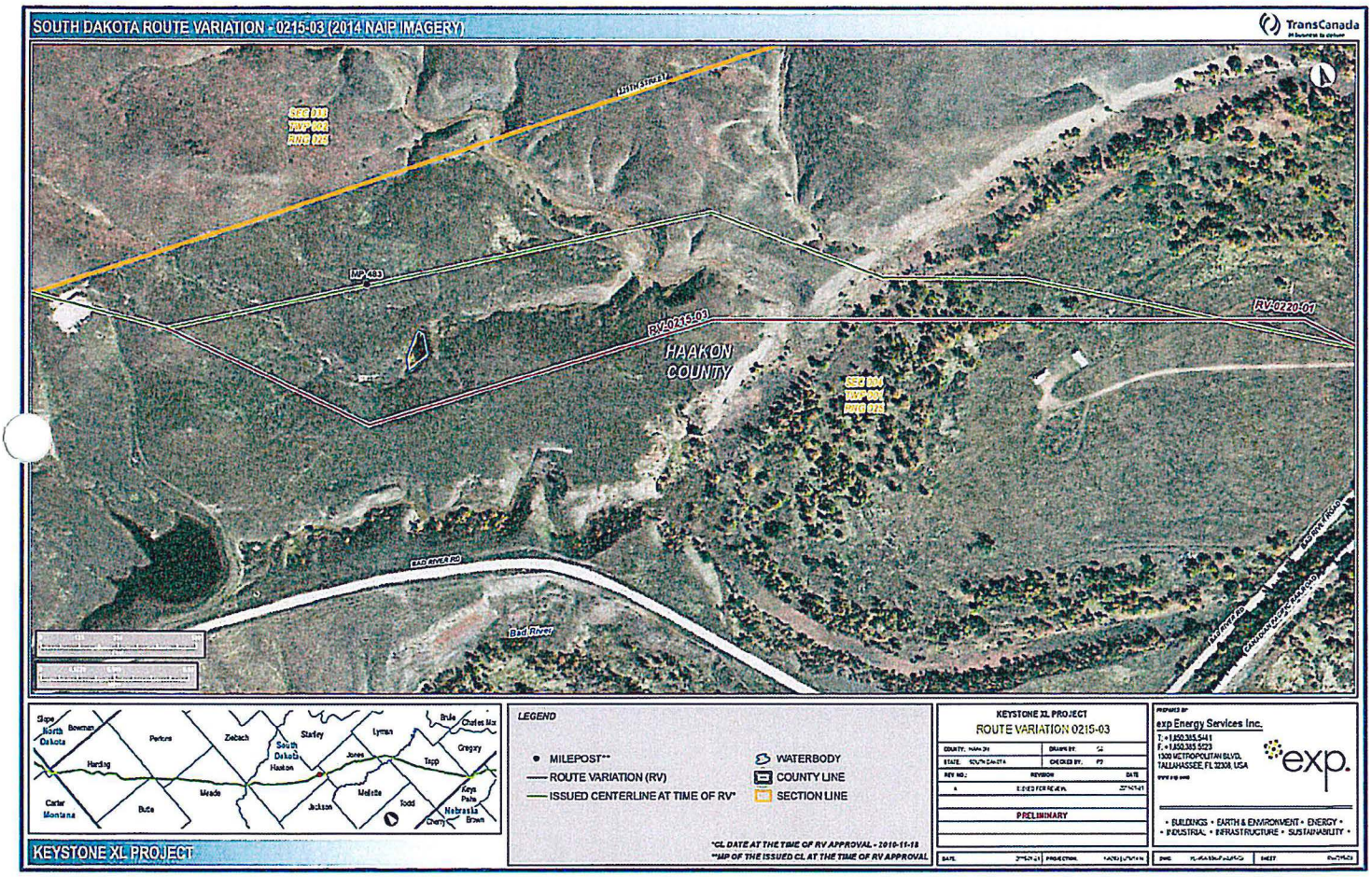
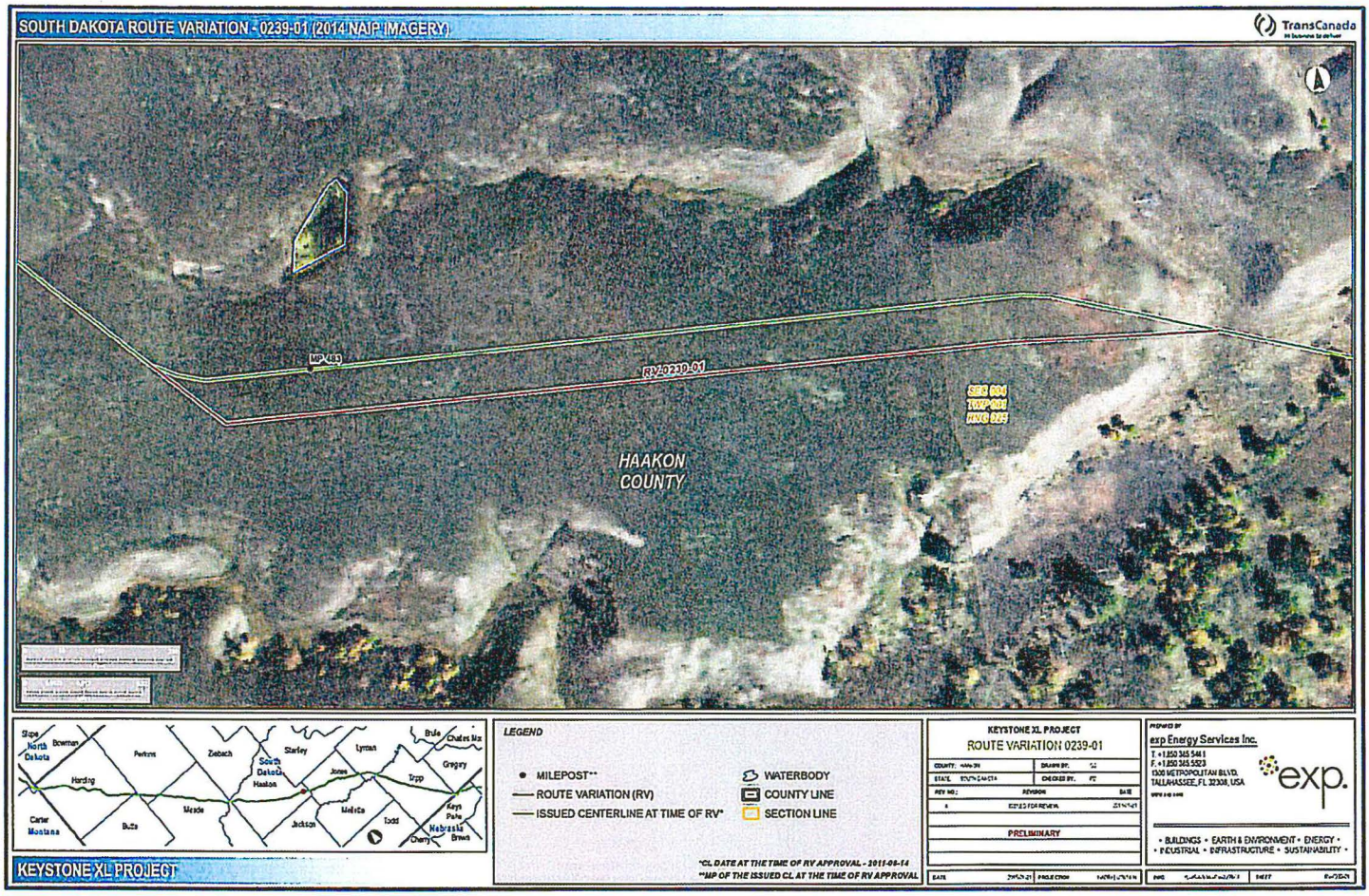
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0215-03 (2014 NAIP IMAGERY)
TransCanada
MP 483
RV-0215-03
RV-0220-01
HAAKON COUNTY
BAD RIVER RD
Bad River
Slope
North Dakota
Bowman
Perkins
Zeibach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0215-03
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0239-01 (2014 NAIP IMAGERY)
TransCanada
MP 483
RV 0239-01
SEC 004
TWP 001
RNG 025
HAAKON COUNTY
Slope
North Dakota
Bowman
Perkins
Zeebach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2011-06-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0239-01
PRELIMINARY
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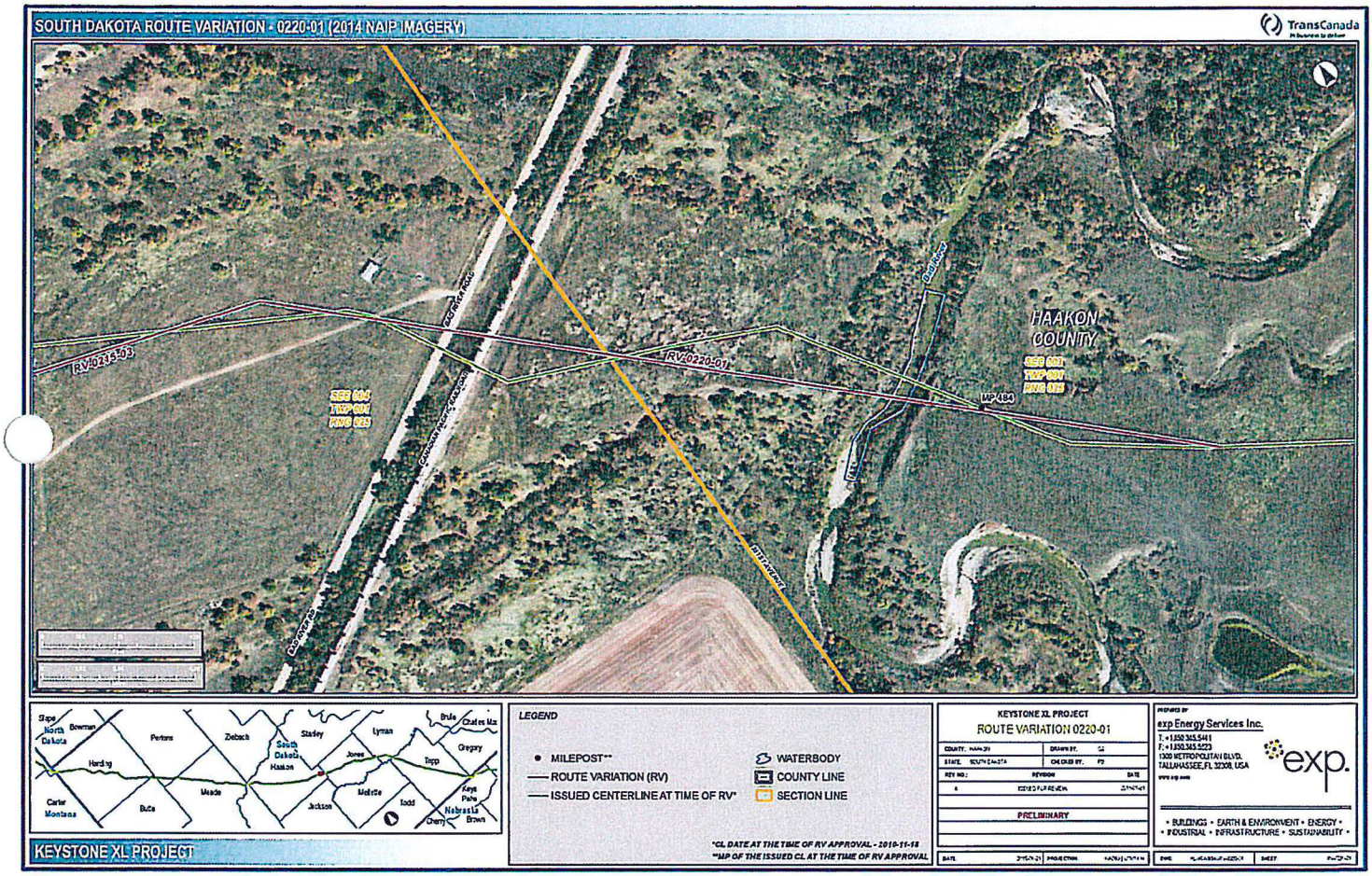
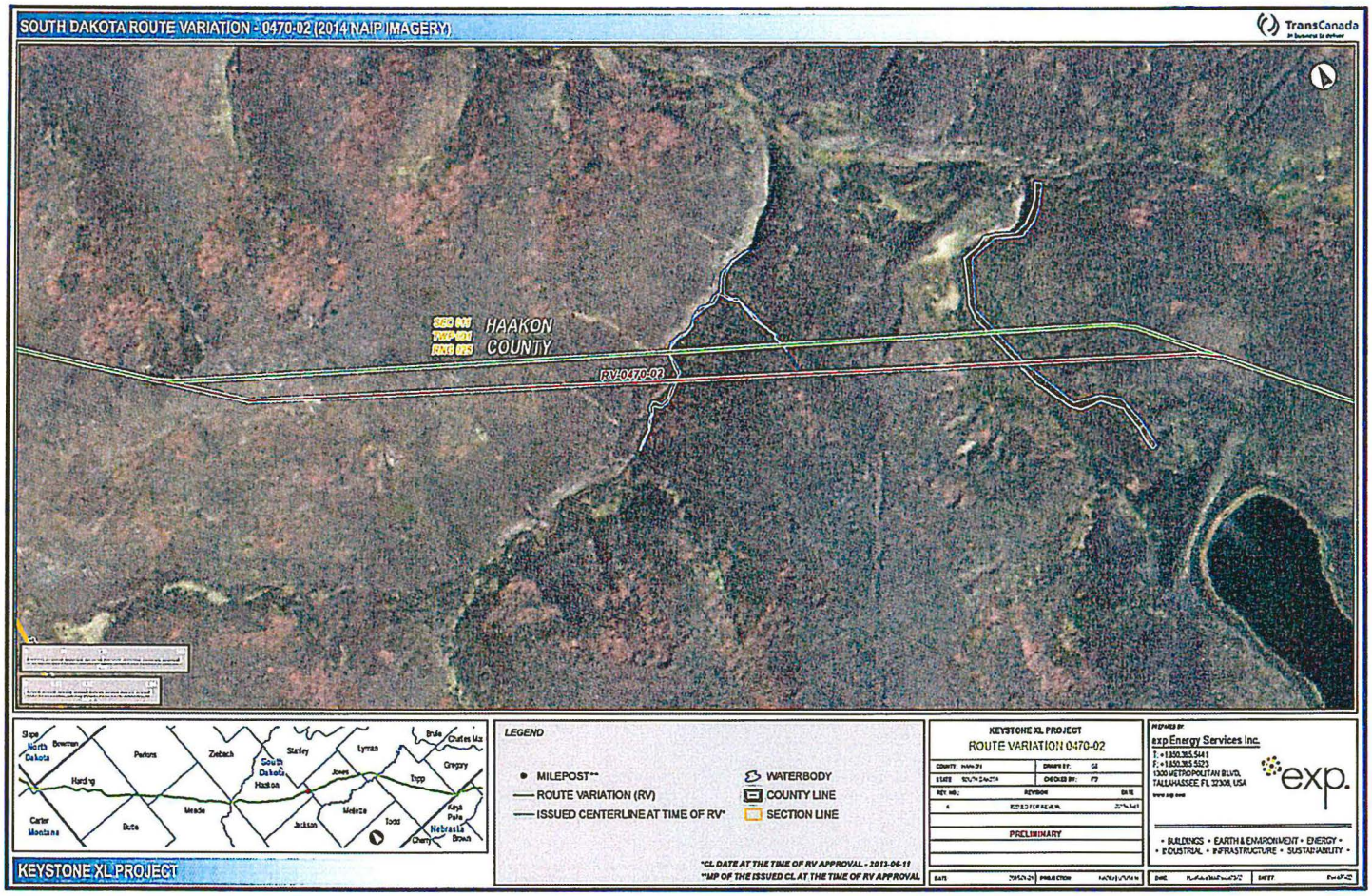
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0220-01 (2014 NAIP IMAGERY)
TransCanada
RV 0215-03
RV 0220-01
HAAKON COUNTY
SEC 001
TWP 001
RNG 015
MP 484
SEC 004
TWP 001
RNG 015
Cheyenne River
Bad River
Bad River
Cheyenne River
Cheyenne River
Cheyenne River
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0220-01
COUNTY: HAAKON
DRAWN BY:
STATE: SOUTH DAKOTA
CHECKED BY:
REV NO.:
REVISION
DATE
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T: +1 850.385.5441
F: +1 850.385.5223
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0470-02 (2014 NAIP IMAGERY)
TransCanada
HAAKON
COUNTY
RV-0470-02
Slope
North Dakota
Bowman
Perkins
Zeibach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0470-02
PRELIMINARY
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exp.
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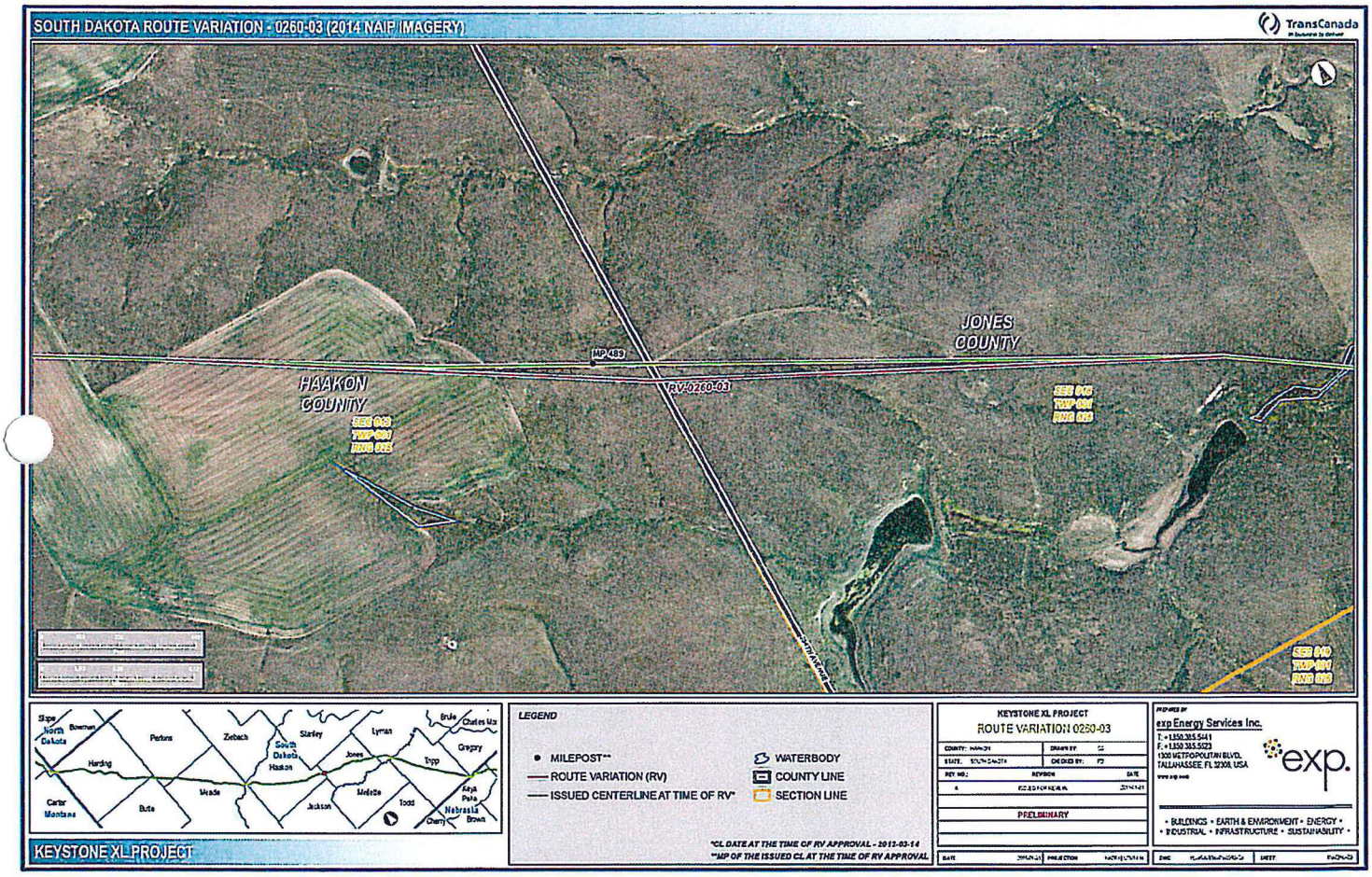
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0260-03 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
HAAKON COUNTY
MP 489
RV-0260-03
SEE 043 TWP 001 RNG 016
SEE 045 TWP 001 RNG 015
SEE 040 TWP 001 RNG 016
Slope
North Dakota
Bowman
Perkins
Zeibach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Meade
Mellette
Todd
Keya Paha
Carter
Montana
Butte
Jackson
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0250-03
PRELIMINARY
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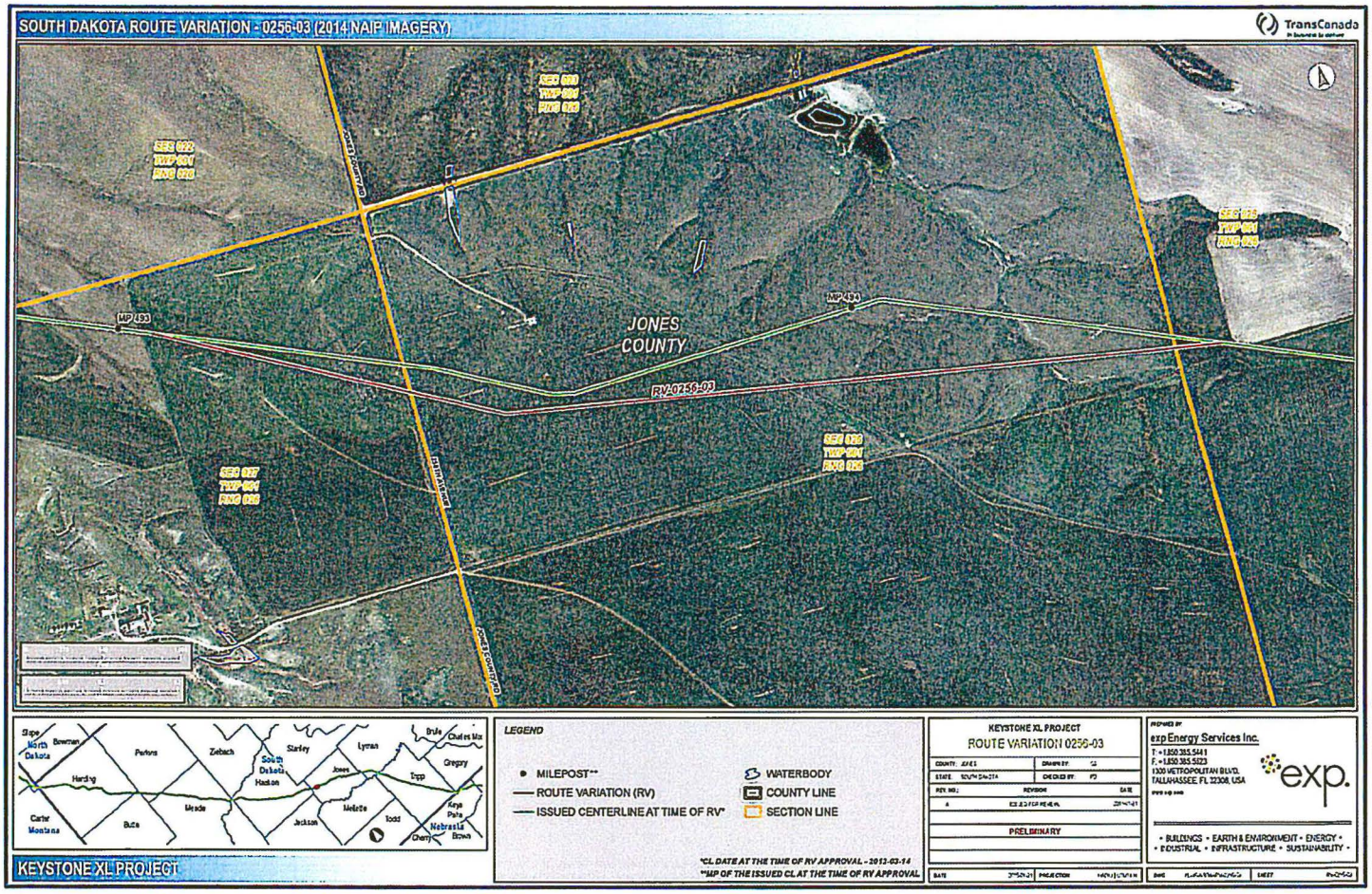
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0256-03 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
MP 493
MP 494
RV 0256-03
SEC 022 TWP 004 RNG 026
SEC 027 TWP 004 RNG 026
SEC 028 TWP 004 RNG 026
SEC 033 TWP 004 RNG 026
SEC 035 TWP 004 RNG 026
JONES COUNTY RD
Slope
North Dakota
Bowman
Perkins
Zeibach
South Dakota
Haakon
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0256-03
COUNTY: JONES
STATE: SOUTH DAKOTA
DRAWN BY:
CHECKED BY:
REV. NO.:
REVISION
DATE
PRELIMINARY
DATE
PROJECTION
PREPARED BY
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F: +1.850.385.5023
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TALLAHASSEE, FL 32308, USA
exp.
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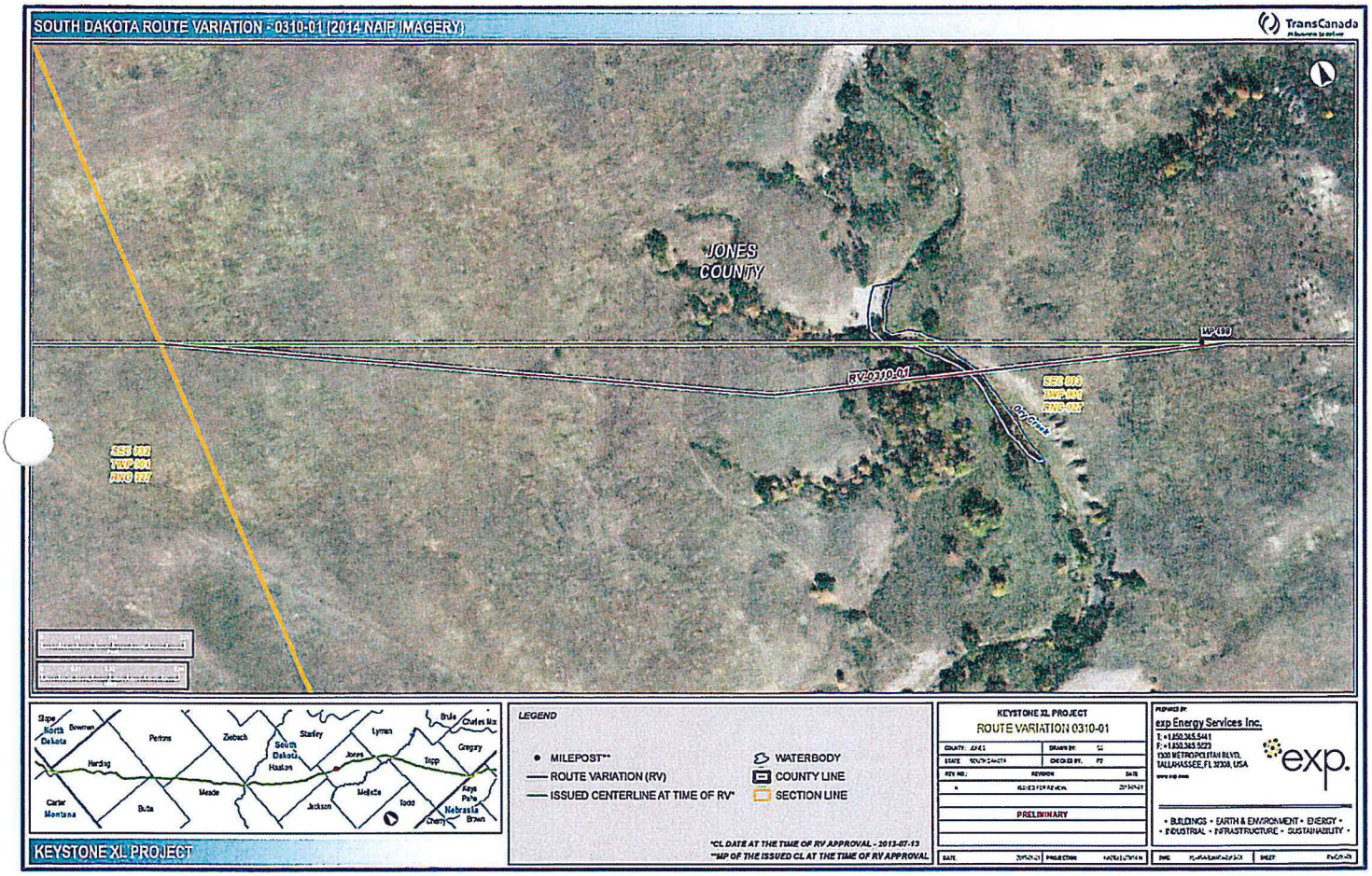
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
DATE
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0310-01 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
MP 109
RV-0310-01
SES 018
TWP 001
RNG 027
Dry Creek
SES 018
TWP 001
RNG 027
Slope
North Dakota
Bowman
Perkins
Ziebach
Starley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-07-13
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0310-01
PRELIMINARY
exp Energy Services Inc.
exp.
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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

SOUTH DAKOTA ROUTE VARIATION - 0256-02 (2014 NAIP IMAGERY)

TransCanada

KEYSTONE XL PROJECT

LEGEND

- MILEPOST**
- ROUTE VARIATION (RV)
- ISSUED CENTERLINE AT TIME OF RV*
- WATERBODY
- COUNTY LINE
- SECTION LINE

*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL

KEYSTONE XL PROJECT
ROUTE VARIATION 0256-02

COUNTY: JONES		DRAWN BY:	
STATE: SOUTH DAKOTA		CHECKED BY:	
REV NO:	REVISION		DATE
4	[illegible]		[illegible]

PRELIMINARY

DATE [illegible] PROJECTION [illegible]

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F. +1.850.385.5223
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TALLAHASSEE, FL 32308, USA
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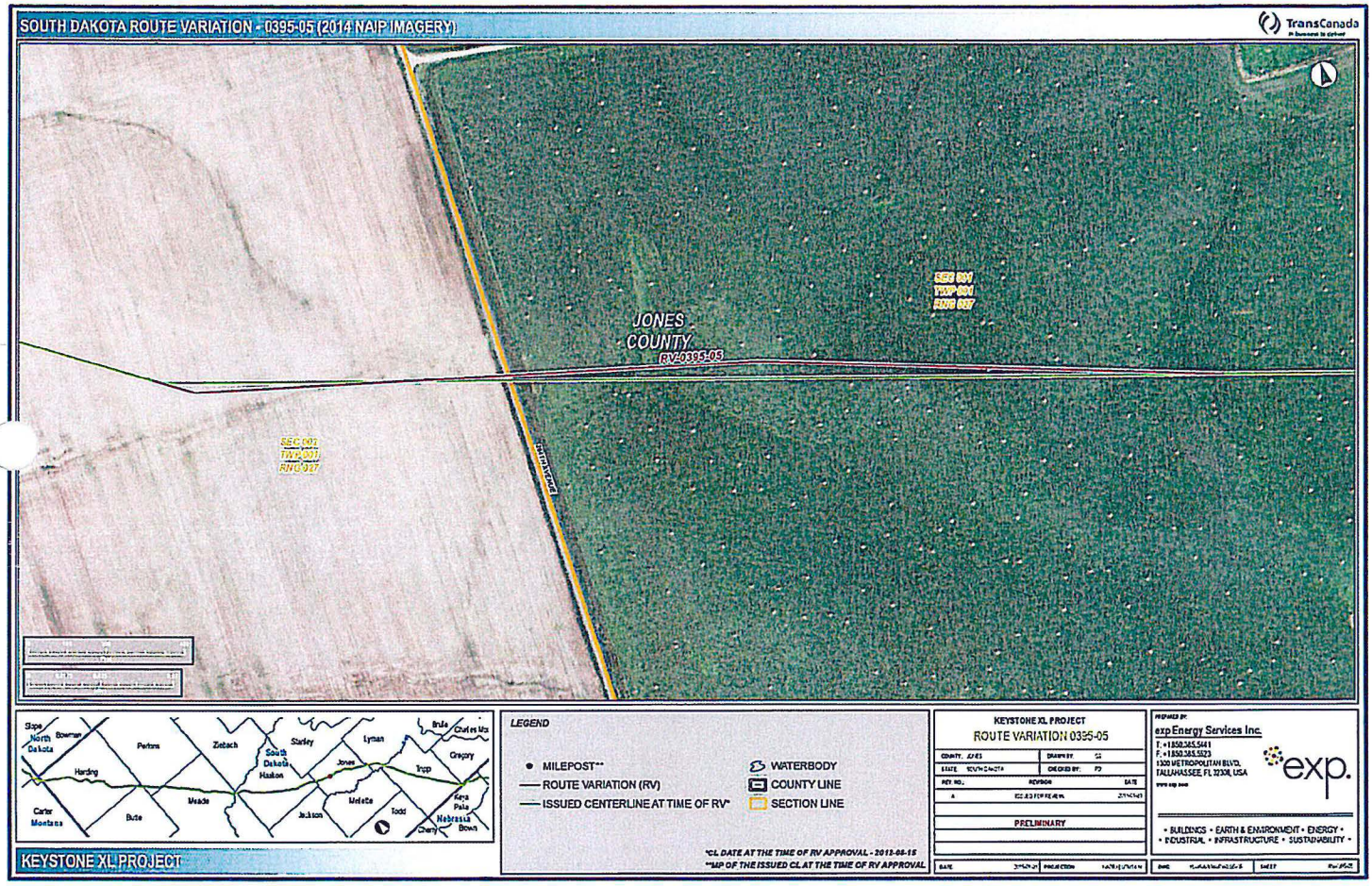
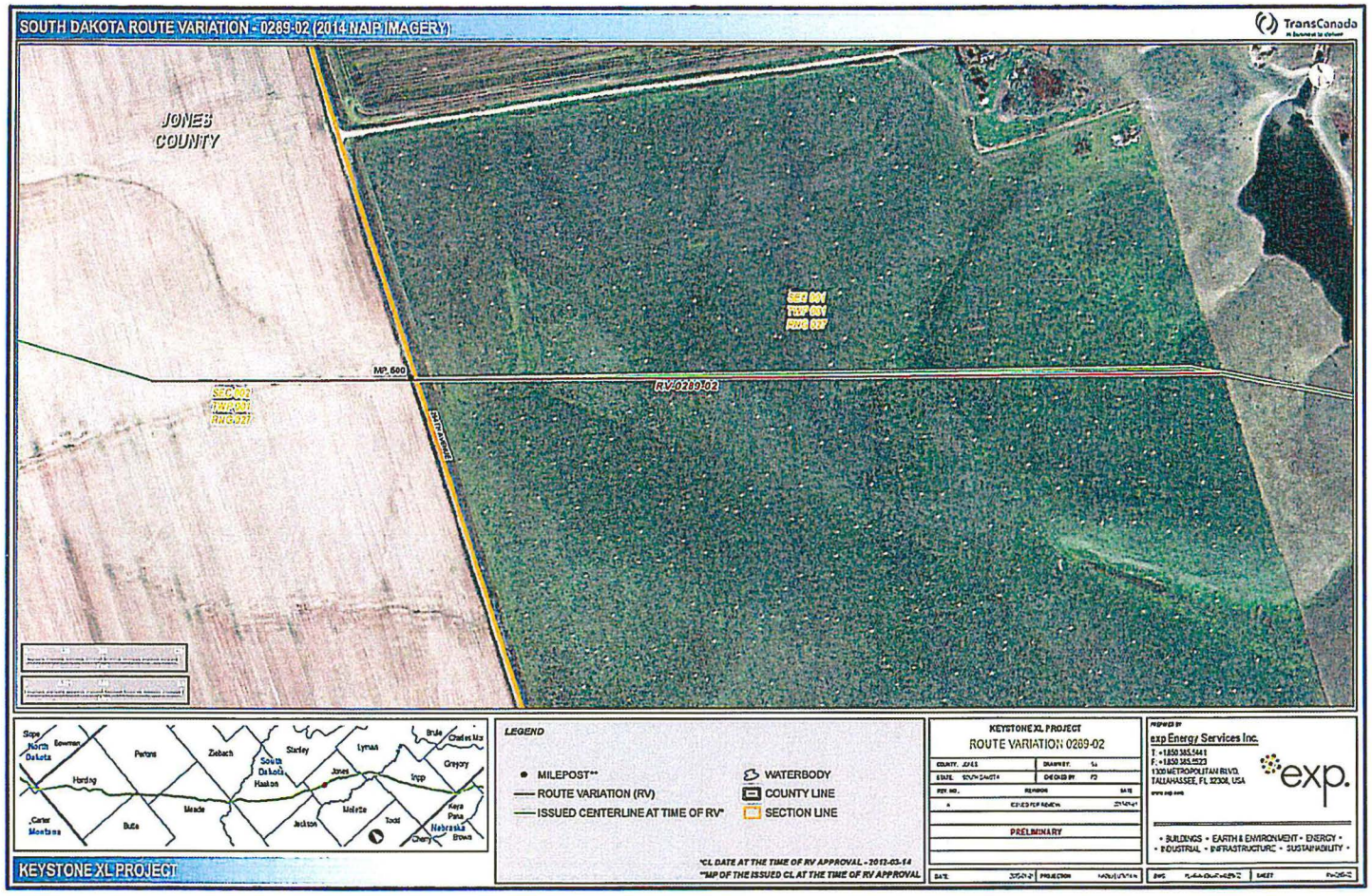
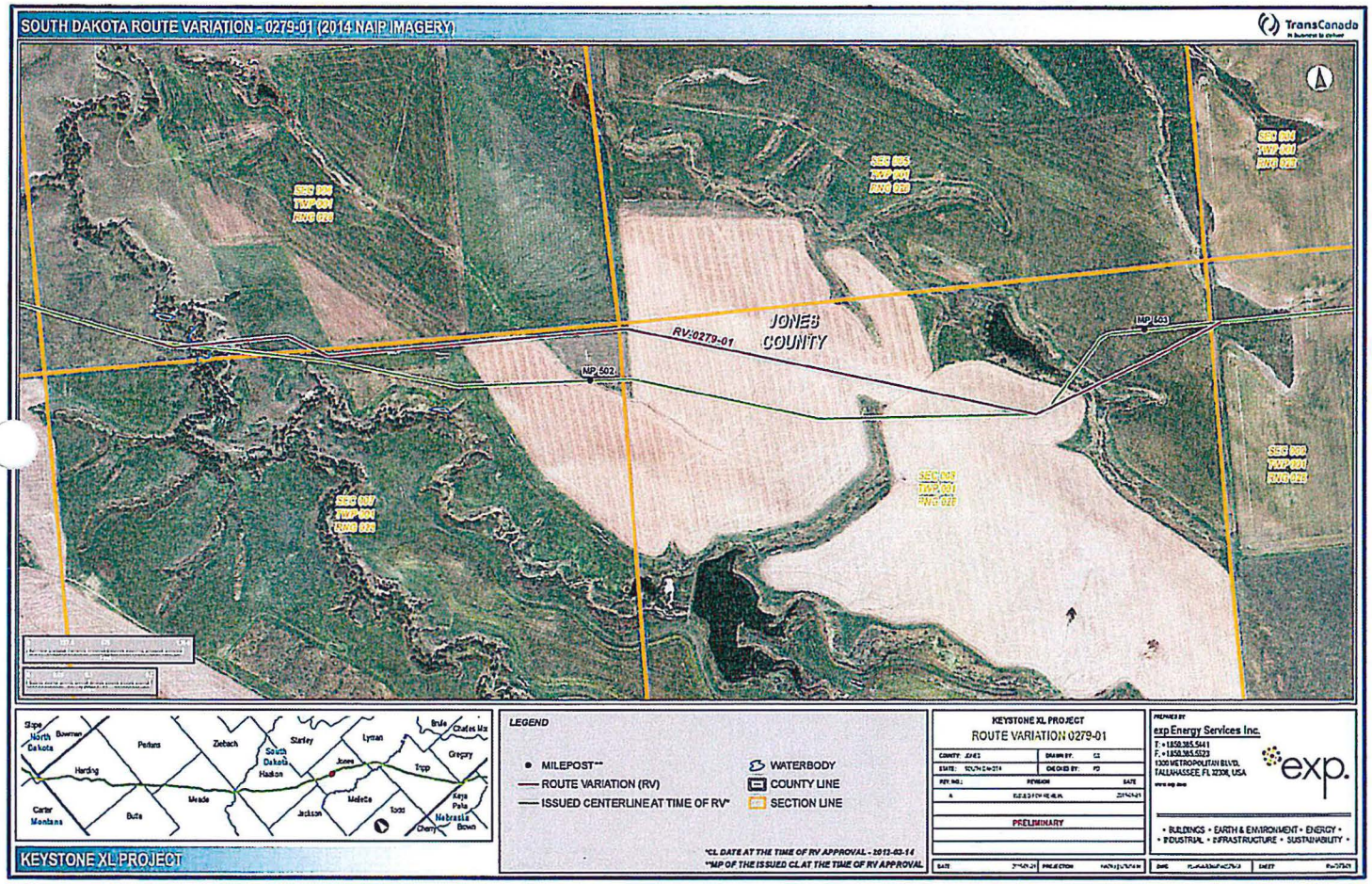
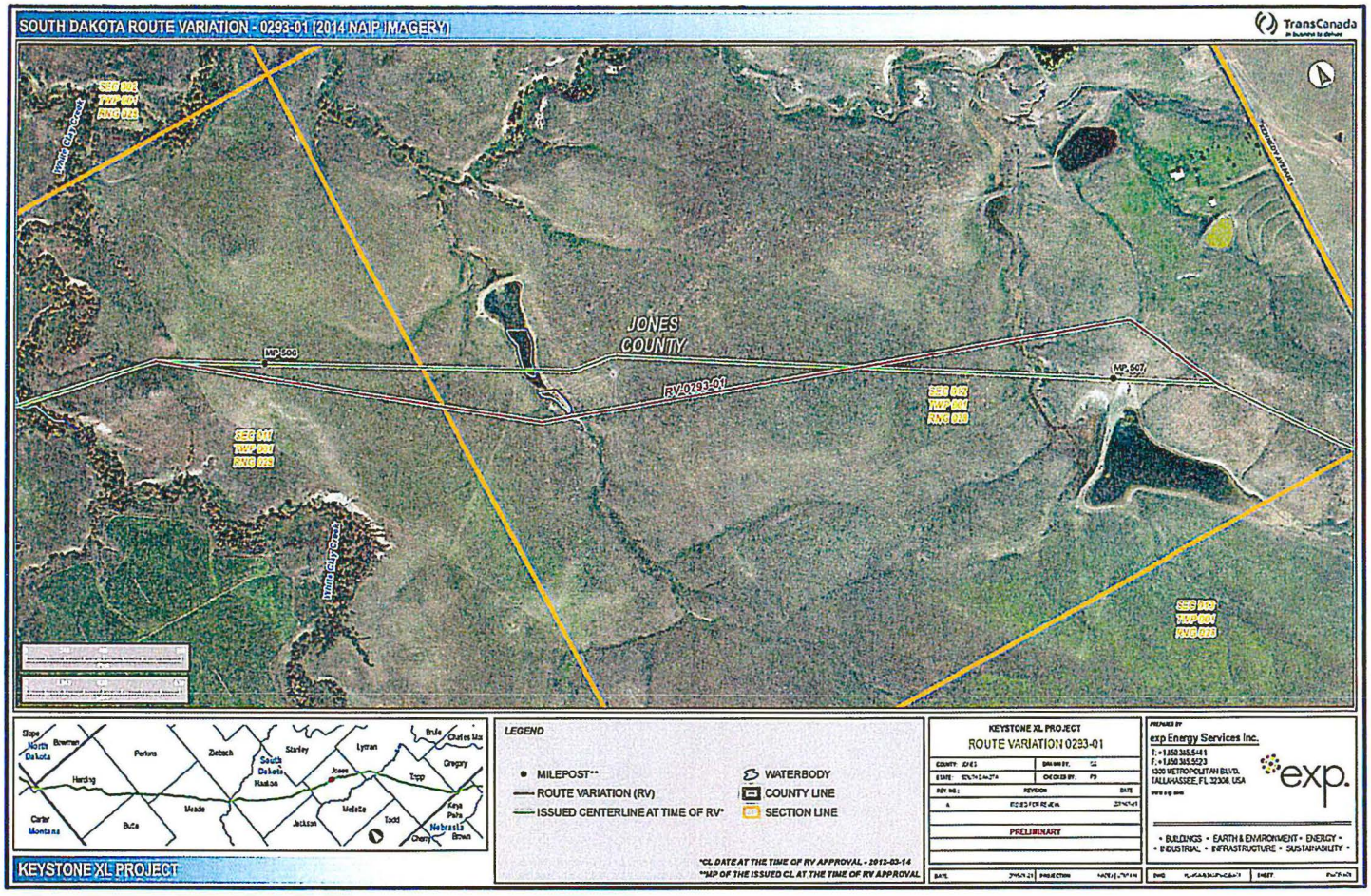
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

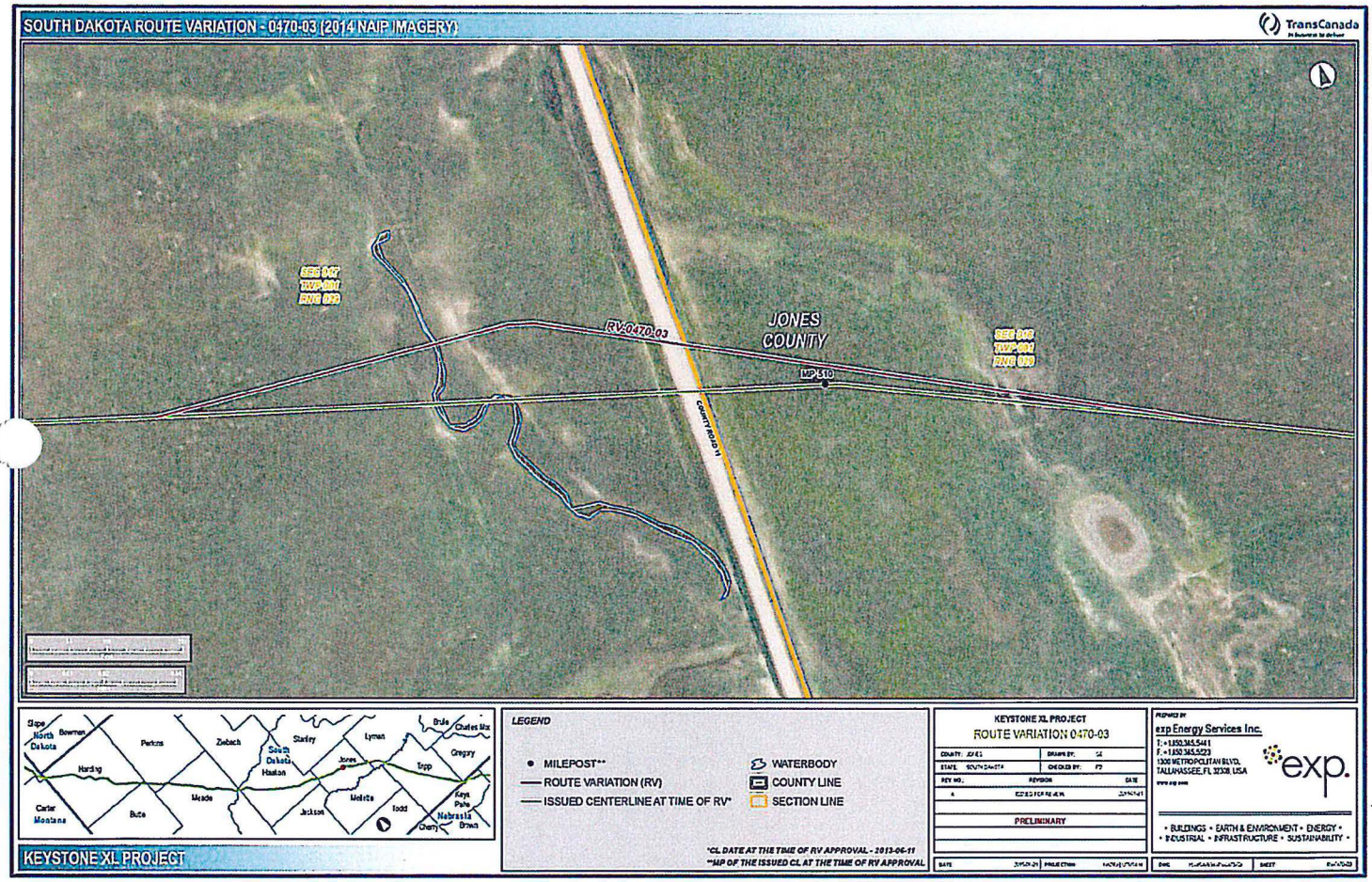
DATE [illegible] SHEET [illegible]


SOUTH DAKOTA ROUTE VARIATION - 0395-05 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
RV-0395-05
SEC 001
TWP 001
RNG 007
SEC 001
TWP 001
RNG 007
Slope
North Dakota
Bowman
Harding
Perkins
Ziebach
South Dakota
Haakon
Stanley
Jones
Lyman
Brule
Charles Mix
Gregory
Tripp
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-08-15
**MAP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0395-05
PRELIMINARY
exp Energy Services Inc.
T: +1 850.385.5441
F: +1 850.385.5523
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0289-02 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
SEC 001
TWP 001
RNG 027
MP 600
RV-0289-02
SEC 002
TWP 001
RNG 027
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Harding
South Dakota
Haakon
Jones
Gregory
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0289-02
COUNTY: JONES
DRAWN BY:
STATE: SOUTH DAKOTA
CHECKED BY:
REV NO.
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T: +1.850.385.5441
F: +1.850.385.5523
1320 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0279-01 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
RV:0279-01
MP 502
MP 503
SEC 005 TWP 001 RNG 028
SEC 006 TWP 001 RNG 028
SEC 007 TWP 001 RNG 028
SEC 008 TWP 001 RNG 028
SEC 009 TWP 001 RNG 028
SEC 010 TWP 001 RNG 028
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Meade
Butte
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0279-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0293-01 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
MP 506
MP 507
RV-0293-01
SEC 007
TWP 004
RNG 028
SEC 017
TWP 004
RNG 028
SEC 018
TWP 004
RNG 028
White City Creek
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Jones
Brule
Charles Mix
Gregory
Tripp
Harding
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0293-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0470-03 (2014 NAIP IMAGERY)
TransCanada
SEC 007
TWP 001
RNG 029
RV-0470-03
JONES COUNTY
SEC 018
TWP 001
RNG 029
MP 510
COUNTY ROAD 11
Slope
North Dakota
Bowman
Harding
Perkins
Zeibach
South Dakota
Haakon
Stanley
Jones
Lyman
Brule
Charles Mix
Gregory
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0470-03
PRELIMINARY
exp Energy Services Inc.
exp.
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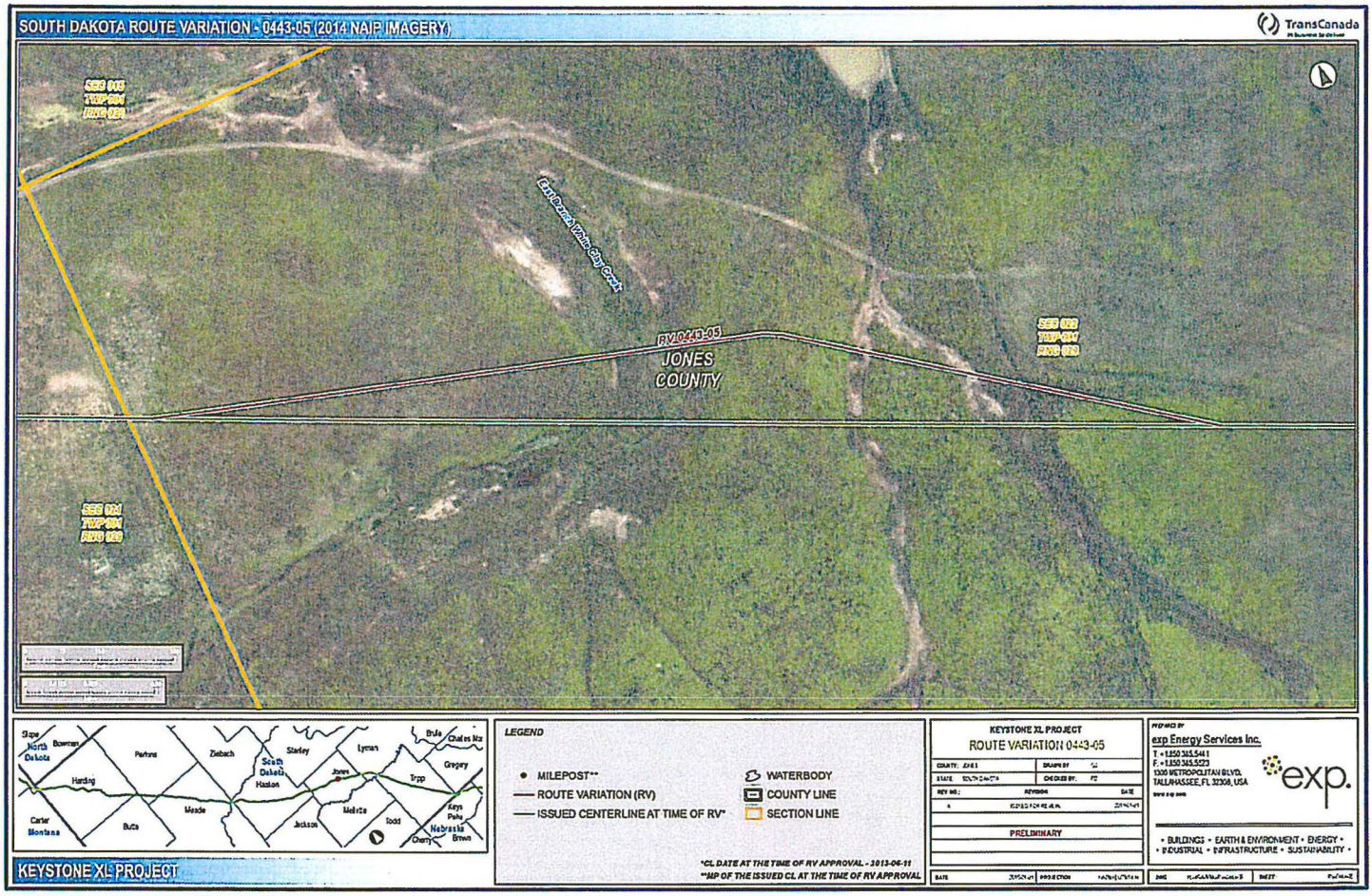
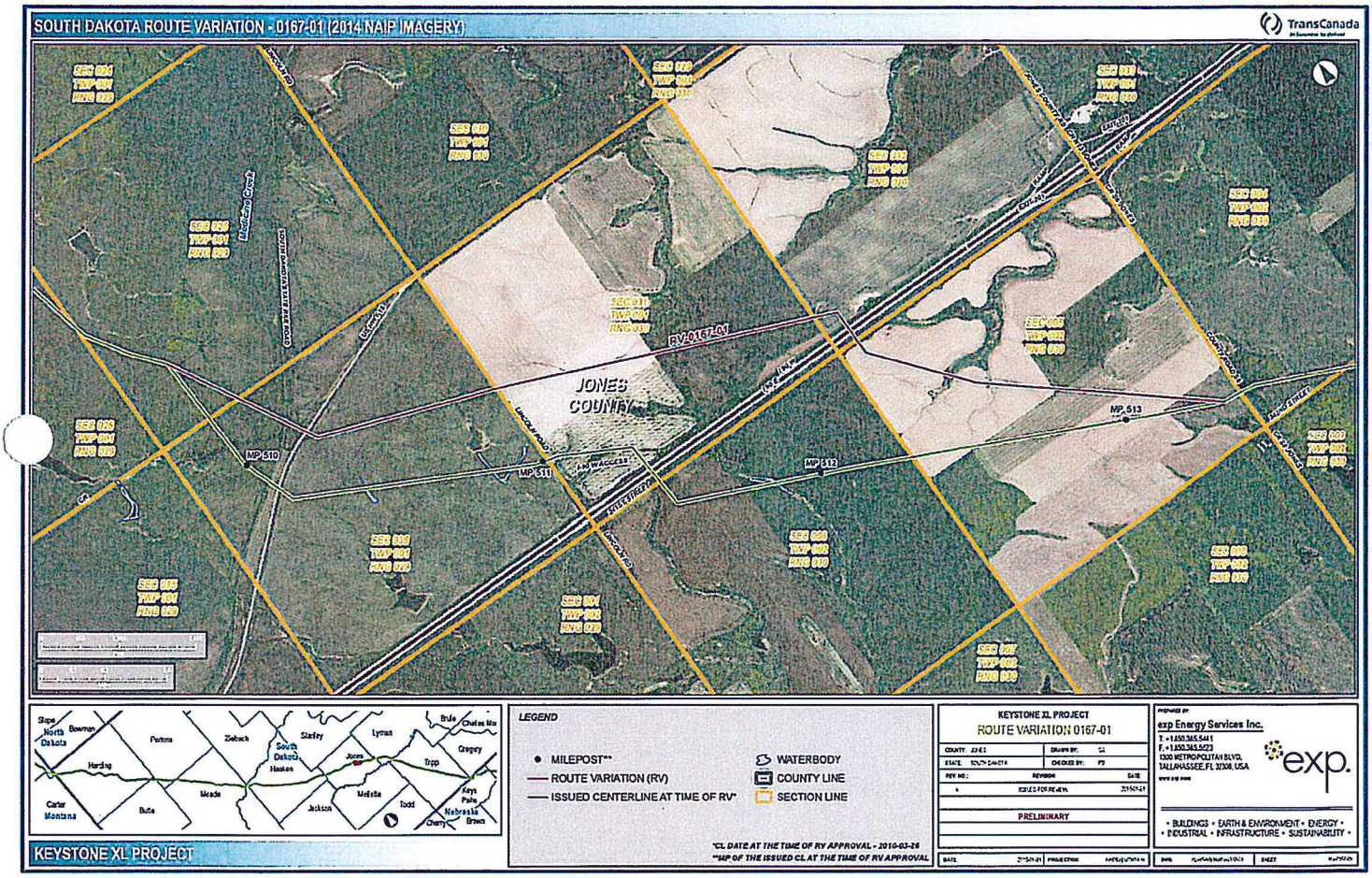
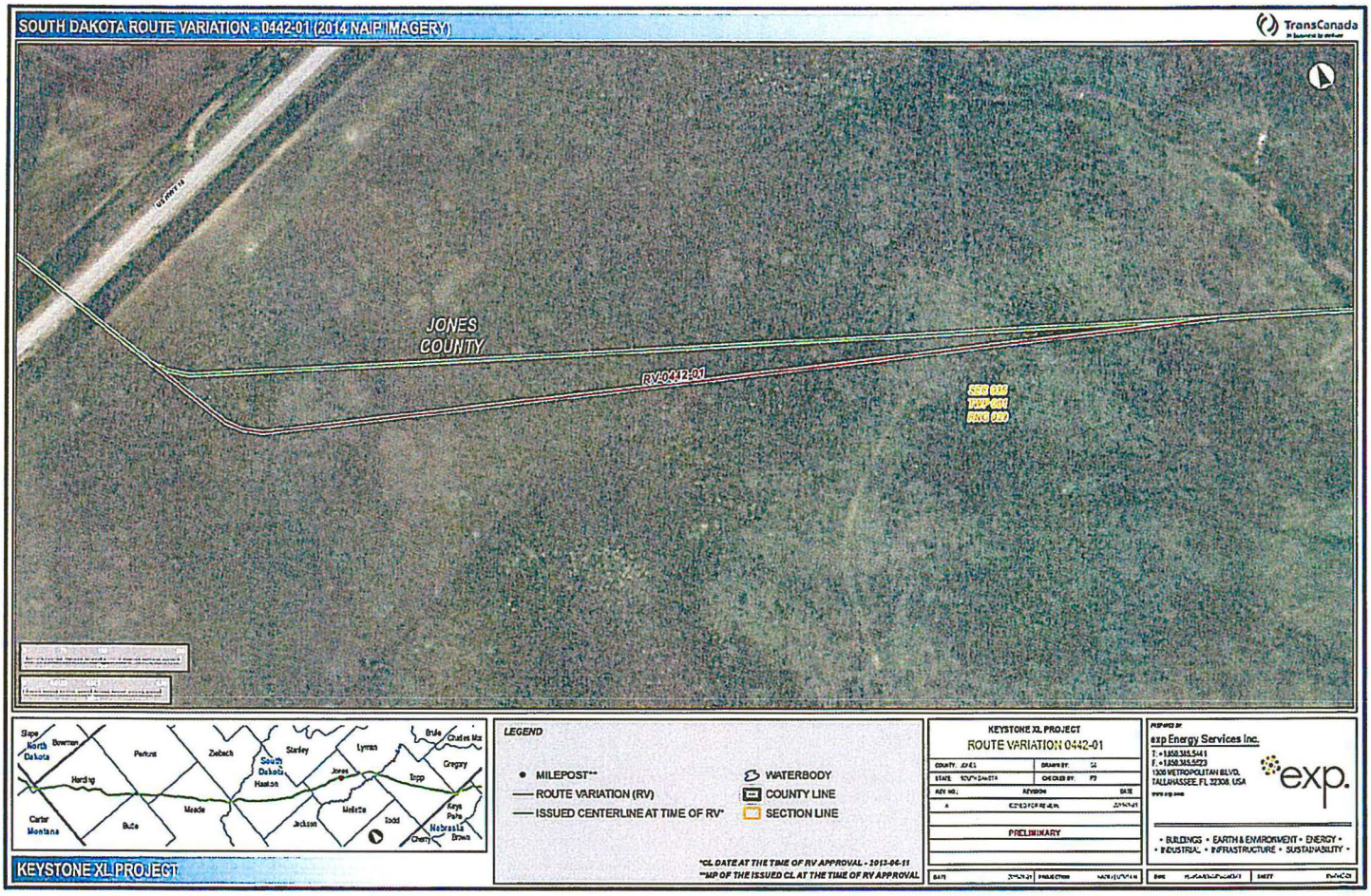
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0443-05 (2014 NAIP IMAGERY)
TransCanada
SEC 015
TWP 001
RNG 028
East Branch White Clay Creek
RV 0443-05
JONES
COUNTY
SEC 028
TWP 001
RNG 028
SEC 021
TWP 001
RNG 028
Slope
North
Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South
Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya
Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0443-05
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0167-01 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
RV-0167-01
MP 510
MP 511
MP 512
MP 513
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-03-26
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0167-01
PRELIMINARY
exp Energy Services Inc.
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0442-01 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
RV-0442-01
SEC 016
TWP 001
RNG 027
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0442-01
PRELIMINARY
PREPARED BY
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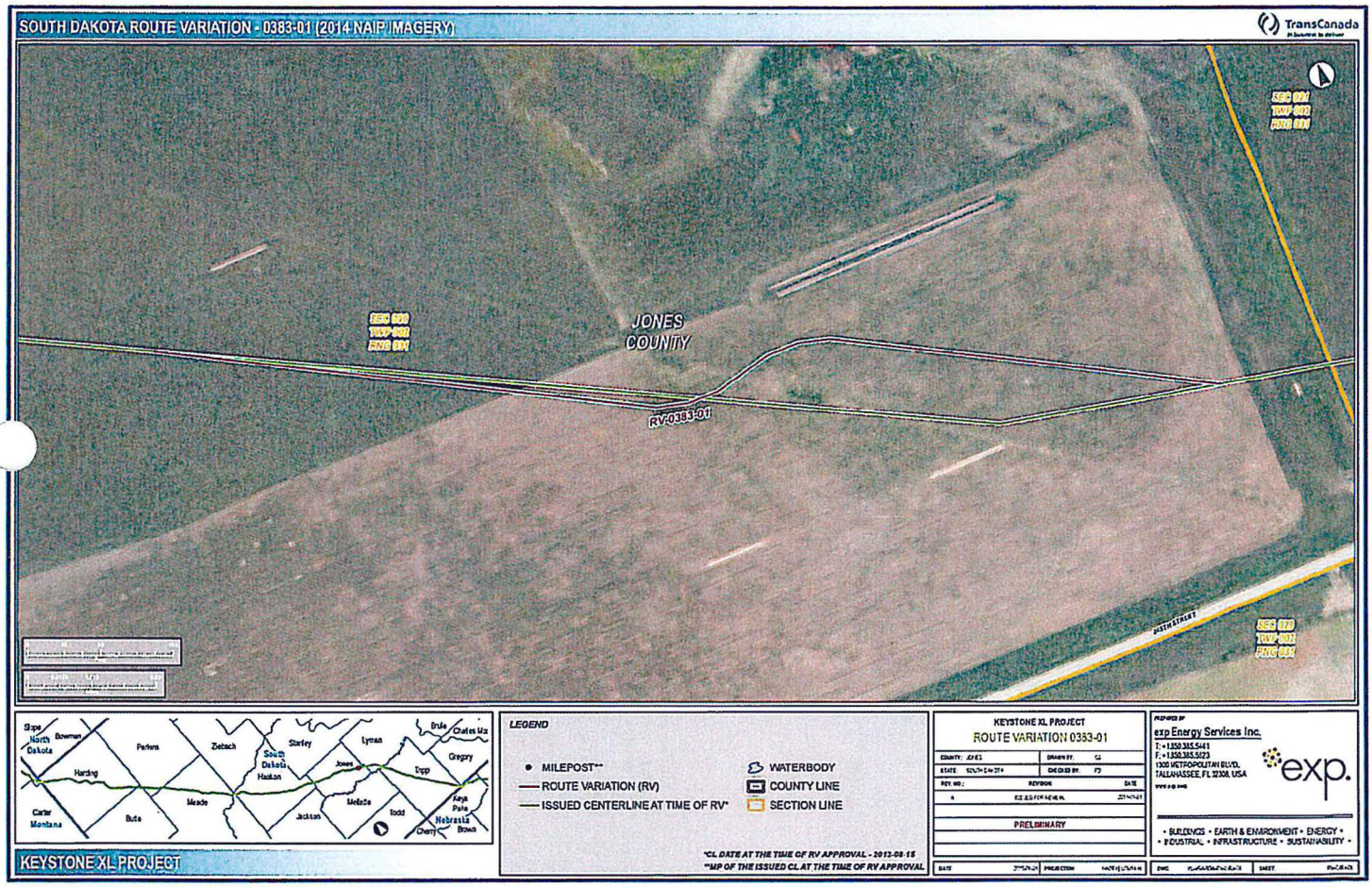
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0383-01 (2014 NAIP IMAGERY)
TransCanada
JONES COUNTY
RV-0383-01
SEC 001
TWP 002
RNG 001
SEC 012
TWP 002
RNG 001
POSTMASTER
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0383-01
PRELIMINARY
exp Energy Services Inc.
exp.
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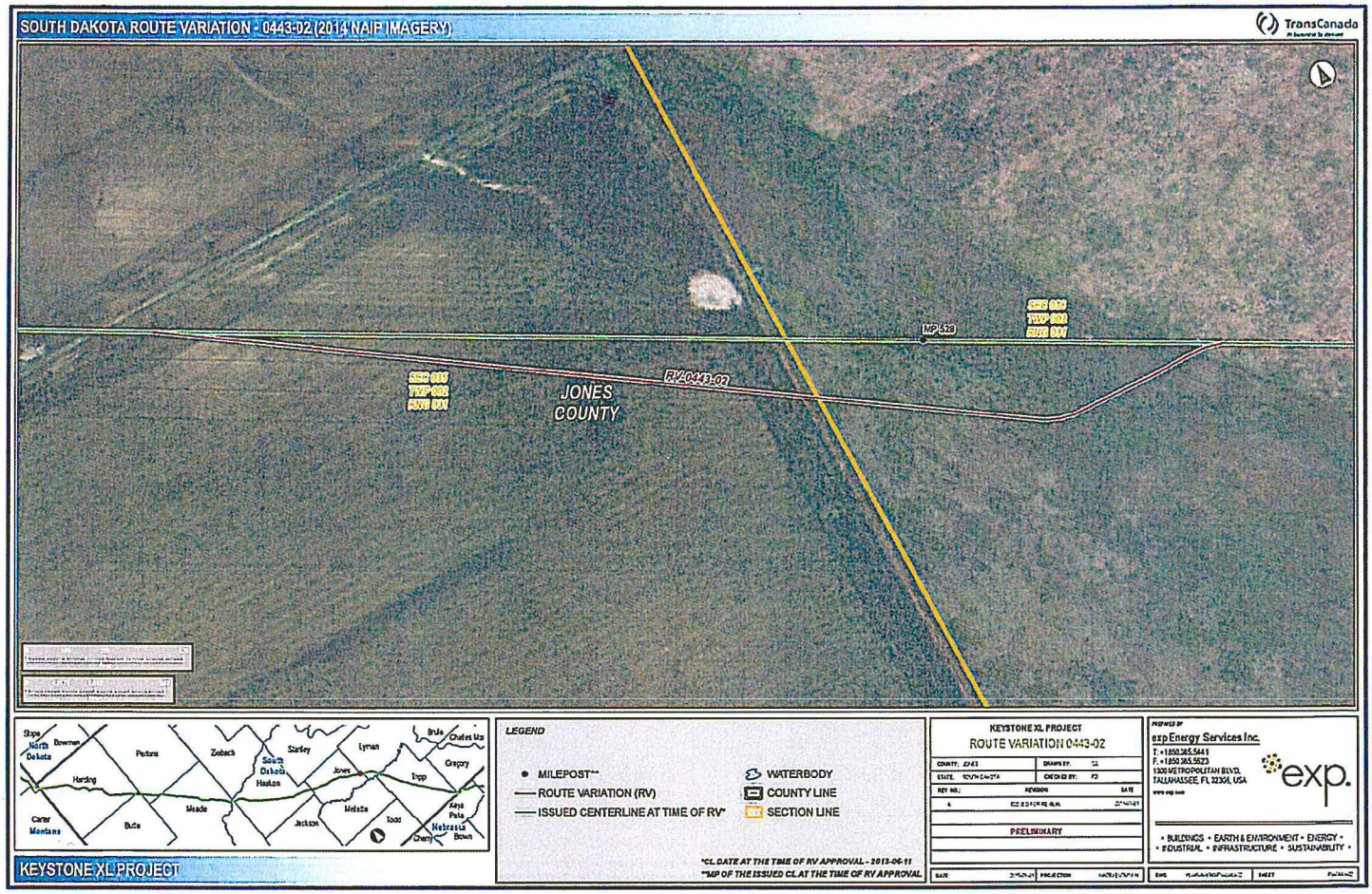
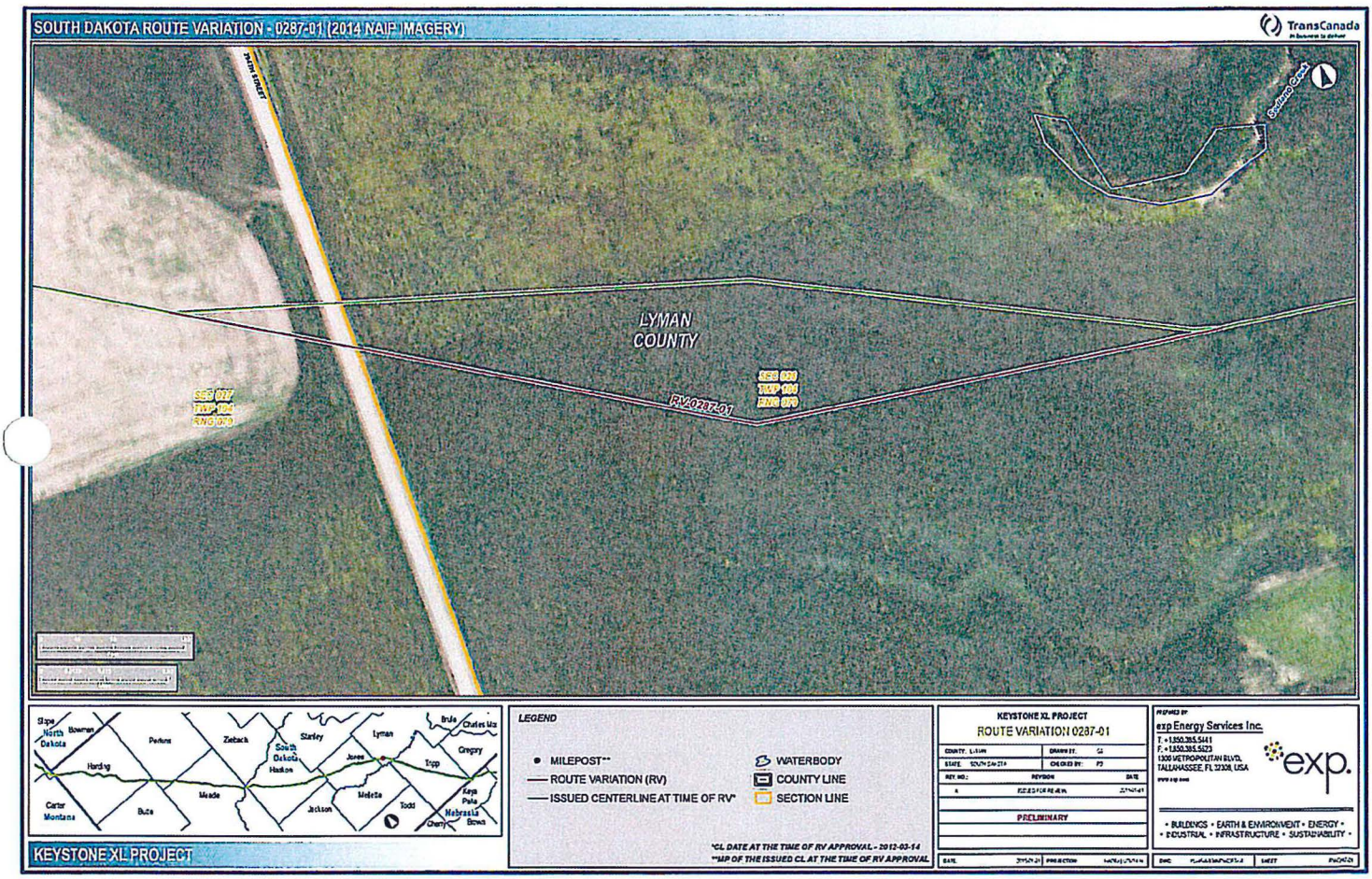
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0443-02 (2014 NAIP IMAGERY)
TransCanada
MP 528
SEC 033
TWP 002
RNG 001
RV 0443-02
JONES COUNTY
Slope
North Dakota
Bowman
Perkins
Zeebach
Stanley
Lyman
Brule
Charles Mix
South Dakota
Haakon
Jones
Gregory
Harding
Tripp
Meade
Mellette
Todd
Aaya Pahe
Carter
Montana
Butte
Jackson
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0443-02
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0287-01 (2014 NAIP IMAGERY)
TransCanada
LYMAN COUNTY
RV-0287-01
SEC 017
TWP 104
RNG 079
SEC 020
TWP 104
RNG 079
Cedar Creek
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Hardyg
South Dakota
Haakon
Jones
Tripp
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
Butte
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MAP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0287-01
COUNTY: Lyman
DRAWN BY: GJ
STATE: South Dakota
CHECKED BY: PD
REV. NO.:
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
T. +1.850.385.5441
F. +1.850.385.5423
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
www.exp.com
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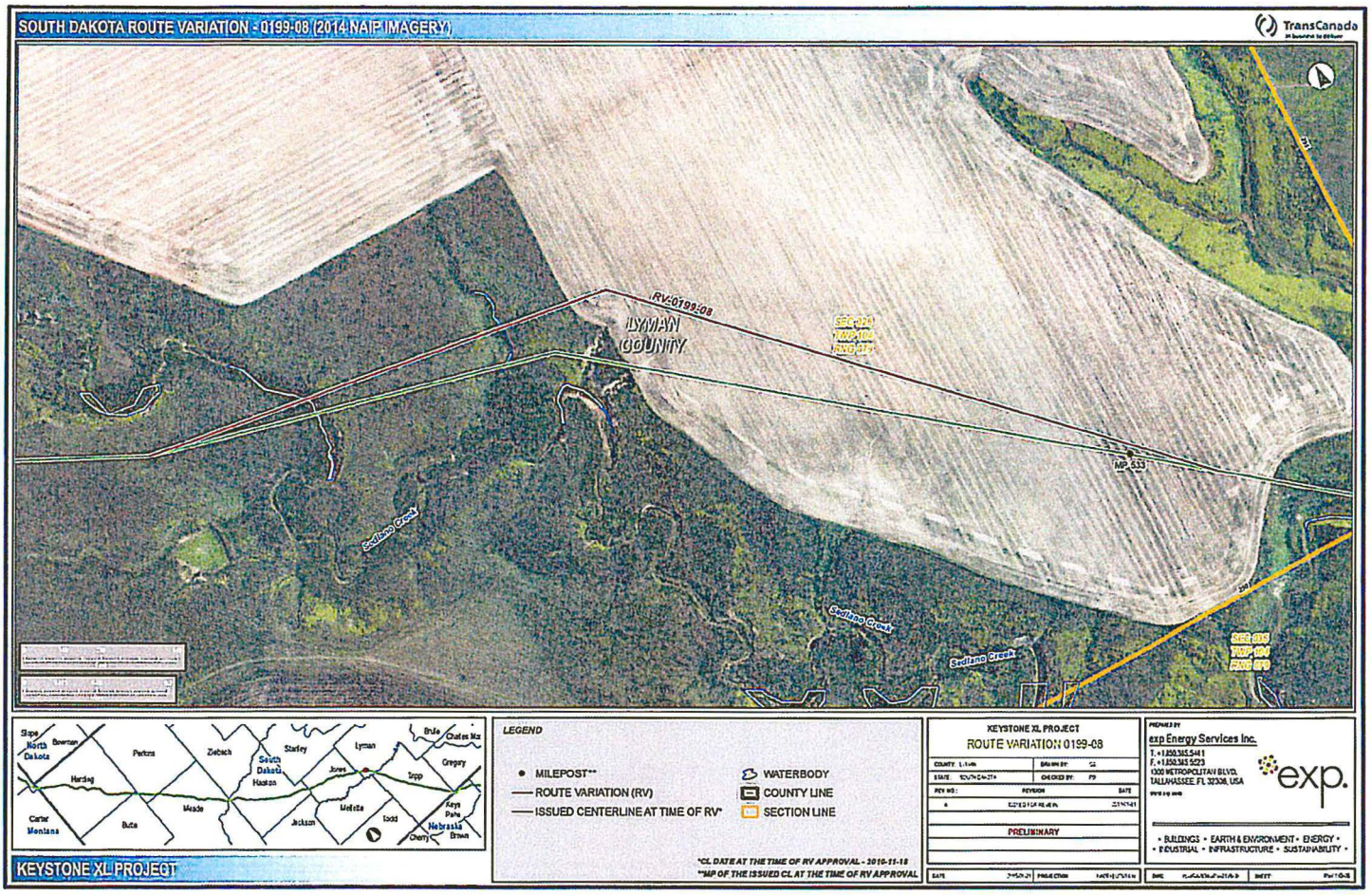
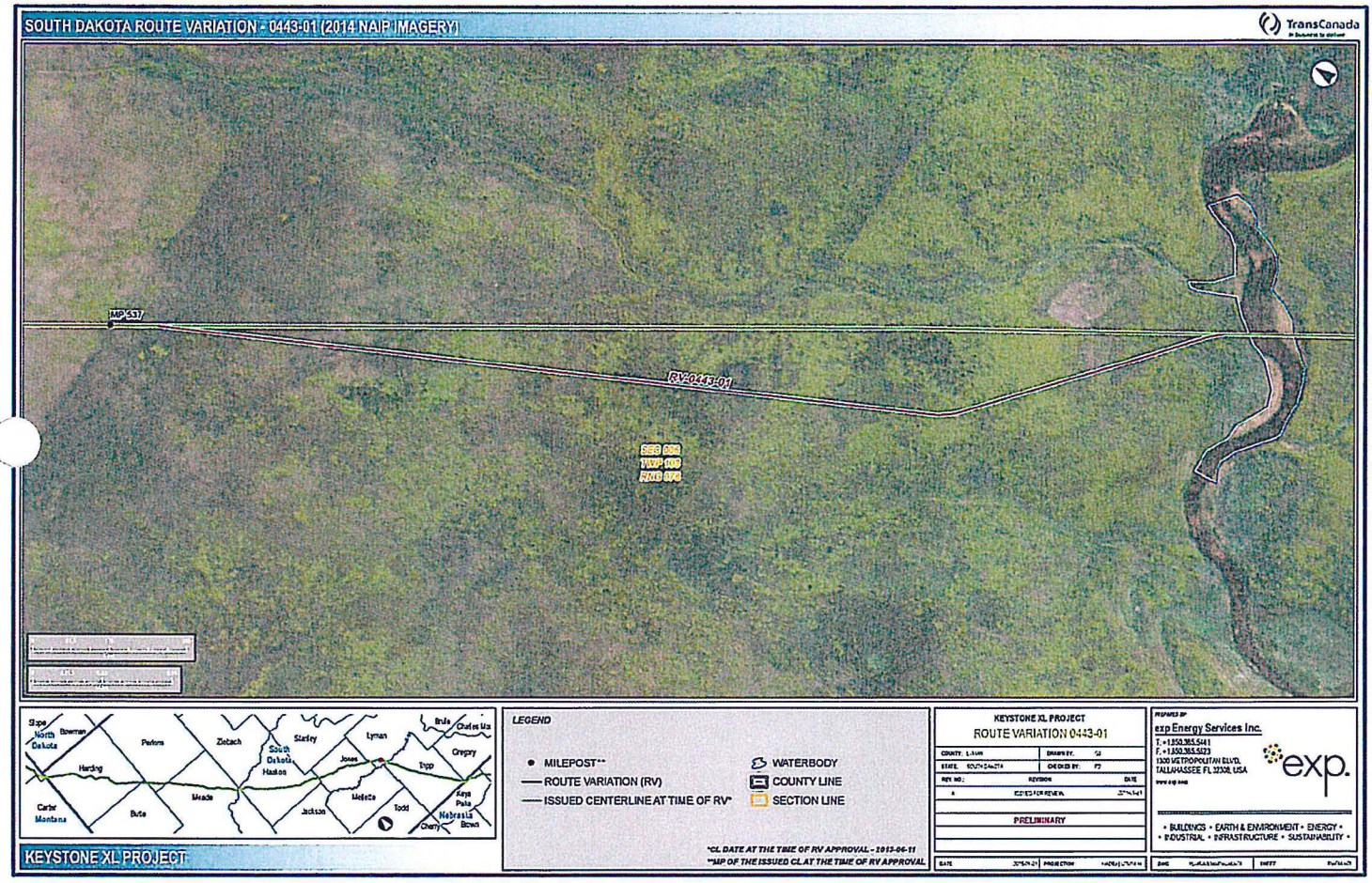
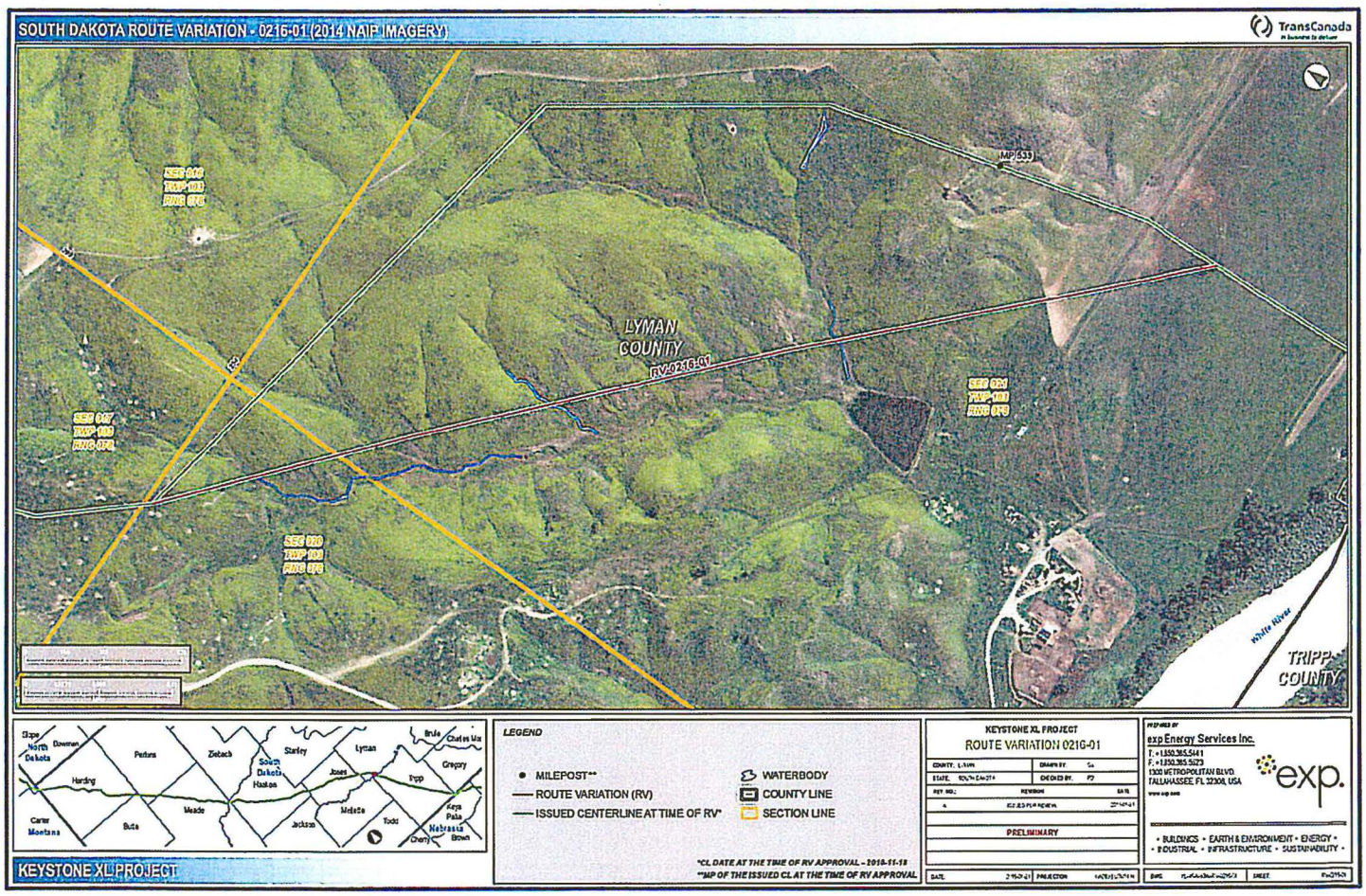
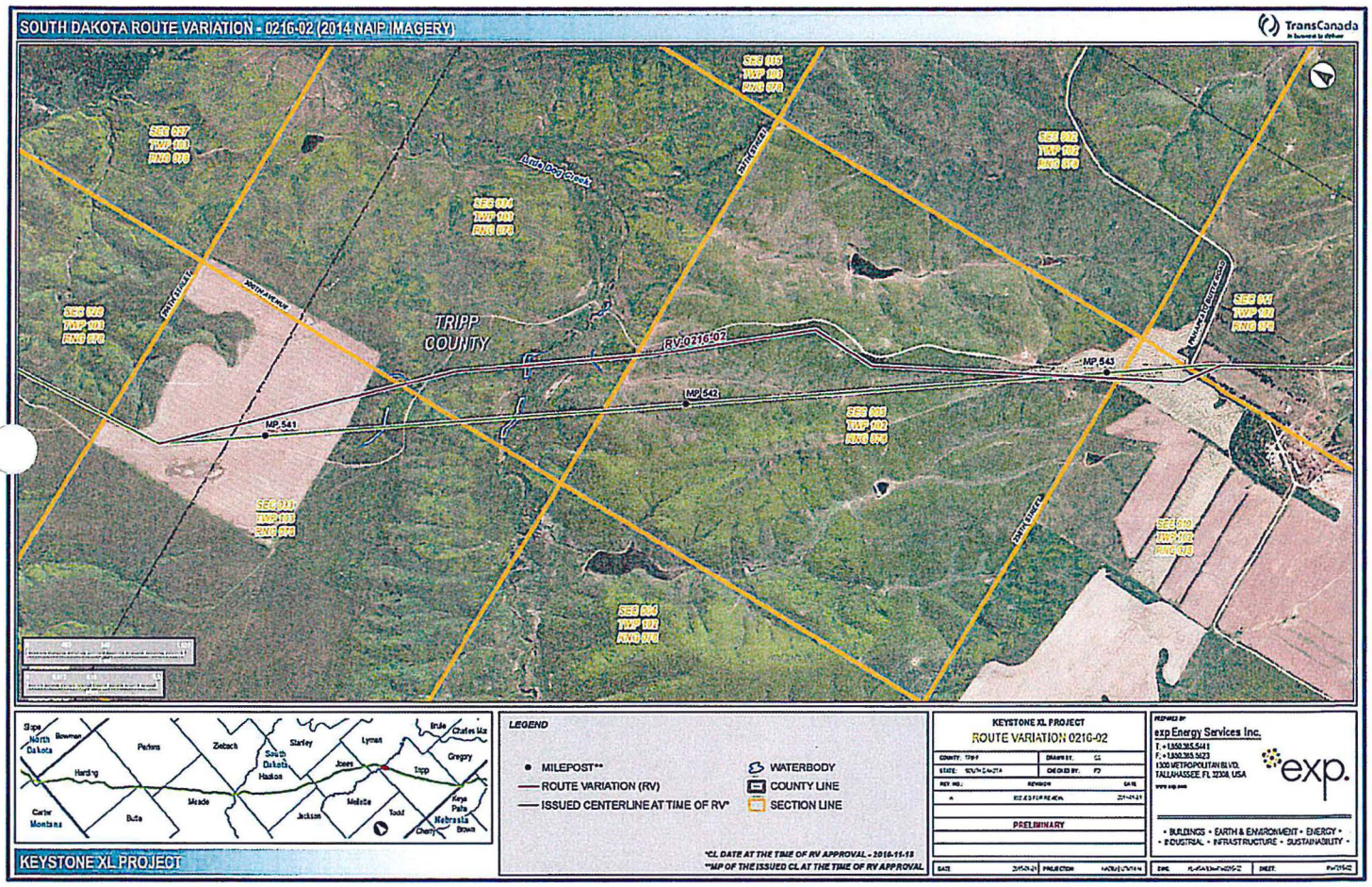
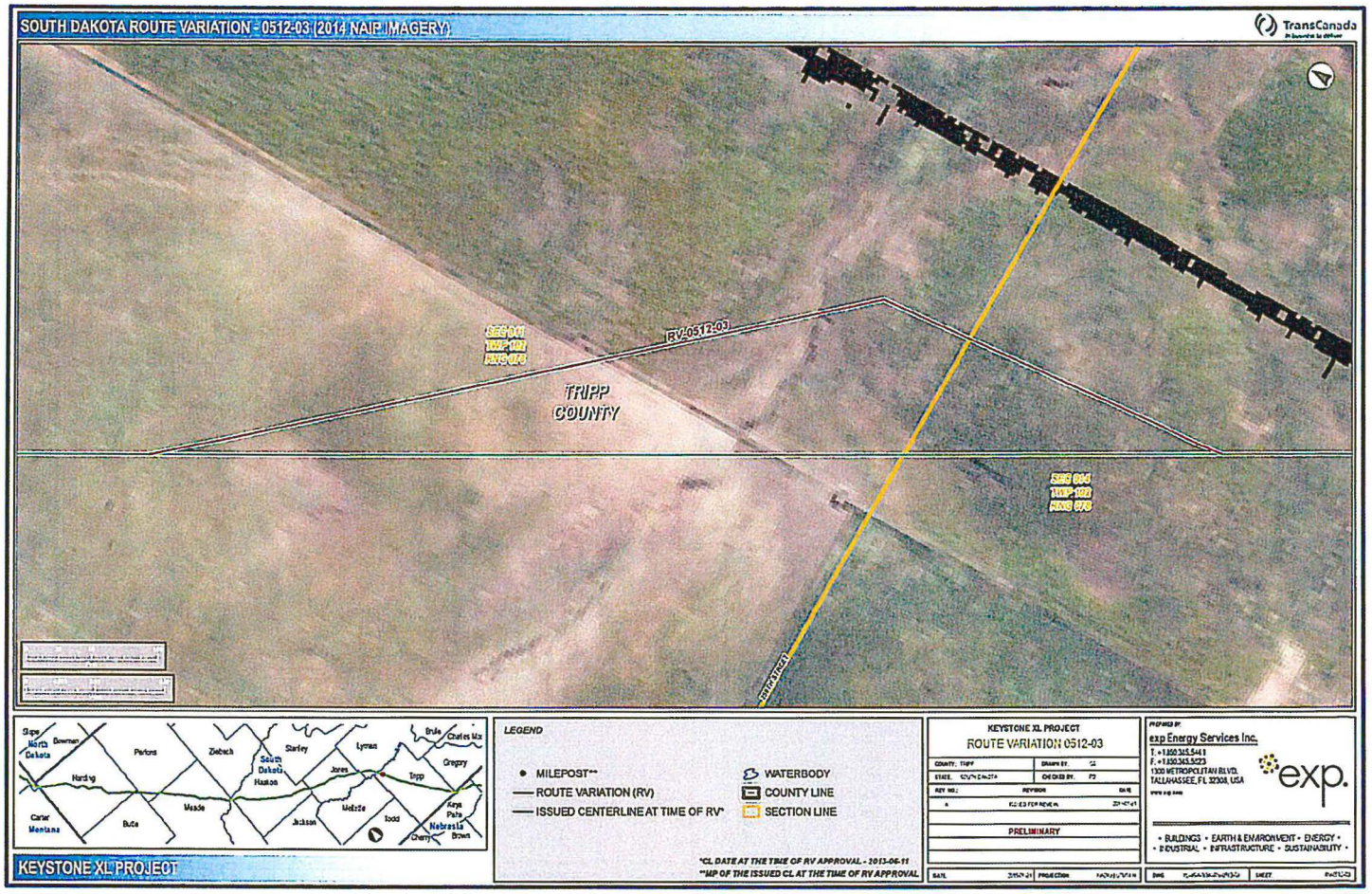
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET


SOUTH DAKOTA ROUTE VARIATION - 0199-08 (2014 NAIP IMAGERY)
TransCanada
RV-0199-08
LYMAN COUNTY
MP 533
Sediano Creek
Sediano Creek
Sediano Creek
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Jones
Brule
Charles Mix
Gregory
Tripp
Hardin
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0199-08
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0443-01 (2014 NAIP IMAGERY)
TransCanada
MP 537
RV-0443-01
SEC 024
TWP 105
RNG 074
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Tripp
Harding
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
Butte
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-06-11
**MAP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0443-01
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0216-01 (2014 NAIP IMAGERY)
TransCanada
MP 633
LYMAN COUNTY
RV-0216-01
SEC 016 TWP 103 RNG 076
SEC 017 TWP 103 RNG 076
SEC 020 TWP 103 RNG 076
SEC 021 TWP 103 RNG 076
White River
TRIPP COUNTY
Slope
North Dakota
Downen
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Pipp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0216-01
PRELIMINARY
exp Energy Services Inc.
T: +1.850.385.5411
F: +1.850.385.5223
1320 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0216-02 (2014 NAIP IMAGERY)
TransCanada
TRIPP COUNTY
RV-0216-02
MP 541
MP 542
MP 543
SEC 027 TWP 100 RNG 079
SEC 028 TWP 100 RNG 079
SEC 033 TWP 100 RNG 079
SEC 034 TWP 100 RNG 079
SEC 003 TWP 101 RNG 079
SEC 004 TWP 101 RNG 079
SEC 009 TWP 101 RNG 079
SEC 010 TWP 101 RNG 079
SEC 015 TWP 101 RNG 079
SEC 016 TWP 101 RNG 079
SEC 021 TWP 101 RNG 079
SEC 022 TWP 101 RNG 079
Little Long Creek
PATH CREEK
SOUTH AVENUE
TRIPP-DELAFIELD ROAD
Slope
North Dakota
Bowman
Perkins
Ziebach
Dewey
Corson
Harding
South Dakota
Haakon
Jones
Lyman
Brule
Charles Mix
Gregory
Tripp
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2016-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0216-02
PRELIMINARY
exp Energy Services Inc.
exp.
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0512-03 (2014 NAIP IMAGERY)
TransCanada
SEC 041
TWP 101
RNG 078
RV-0512-03
TRIPP COUNTY
SEC 045
TWP 101
RNG 078
Slope
North Dakota
Bowman
Perkins
Ziebach
Dewey
Stanley
Lyman
Brule
Charles Mix
Gregory
Hardin
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0512-03
COUNTY: TRIPP
STATE: SOUTH DAKOTA
REV NO.
REVISION
DATE
A
RE-ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY:
exp Energy Services Inc.
T. +1.850.385.5441
F. +1.850.385.5223
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
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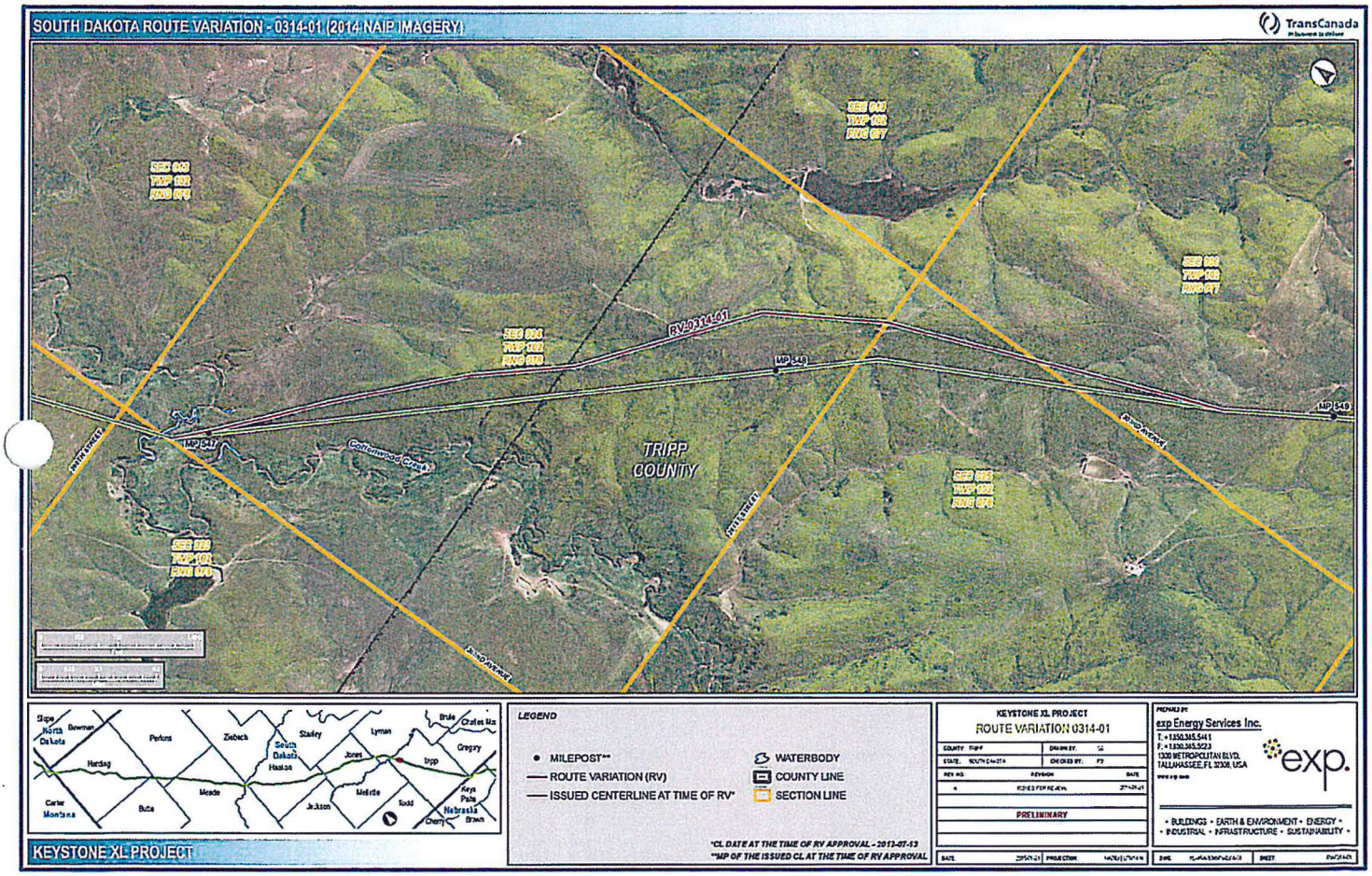
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET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TransCanada
SEC 003
TWP 102
RNG 079
SEC 004
TWP 102
RNG 078
SEC 005
TWP 102
RNG 077
SEC 008
TWP 102
RNG 076
SEC 009
TWP 102
RNG 075
RV-0314-01
MP 540
MP 541
MP 542
Cottonwood Creek
TRIPP COUNTY
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
South Dakota
Haakon
Jones
Tripp
Hardaq
Meade
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
Butte
Jackson
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-07-13
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0314-01
PRELIMINARY
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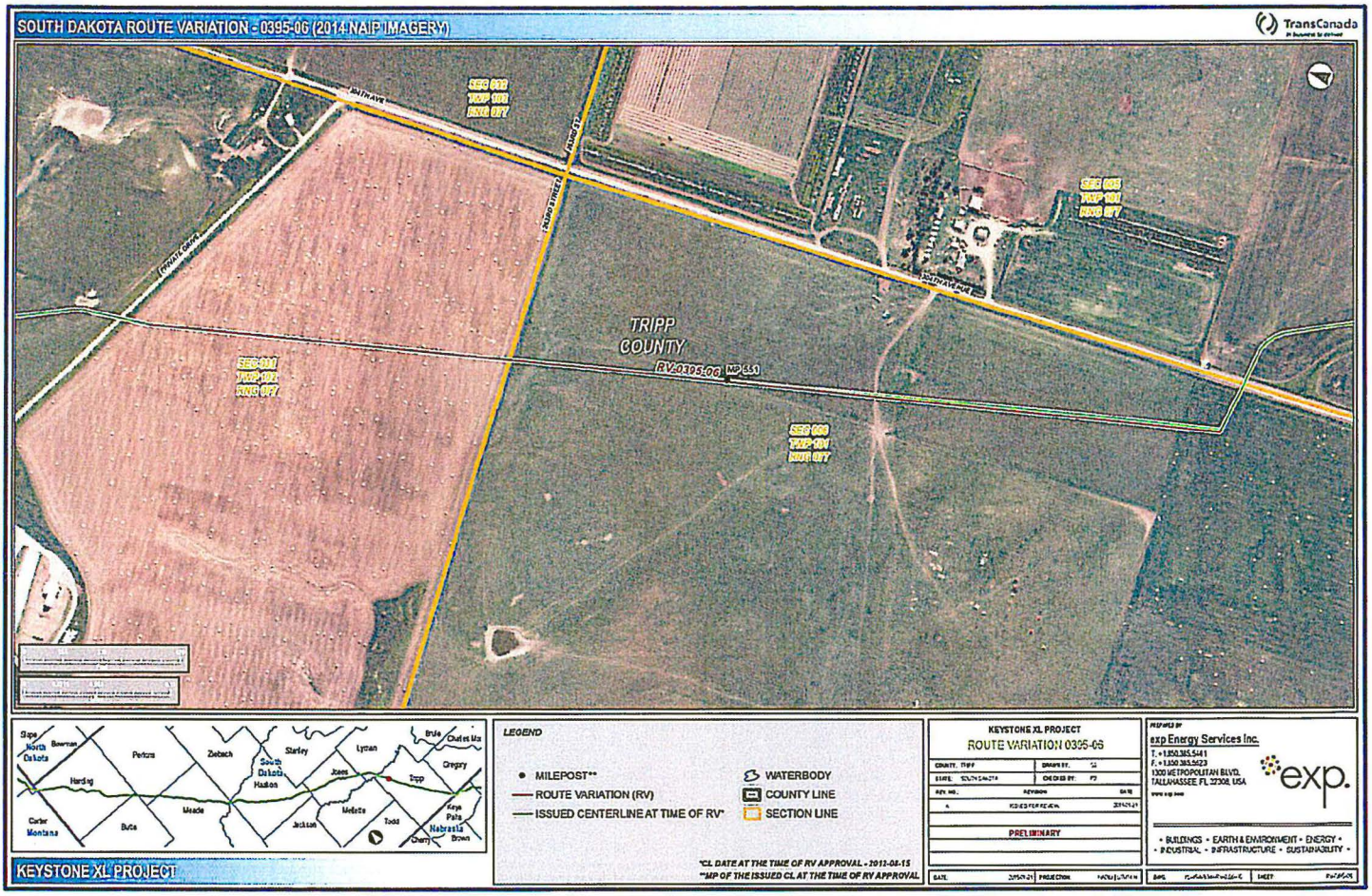
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •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TransCanada
SOUTH DAKOTA
TRIPP COUNTY
RV-0395-06
MP 55.1
SEC 008 TWP 101 RNG 07
SEC 005 TWP 101 RNG 07
SEC 001 TWP 101 RNG 07
SEC 009 TWP 101 RNG 07
Slope
North Dakota
Bowman
Perkins
Ziebach
Dewey
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0395-06
PRELIMINARY
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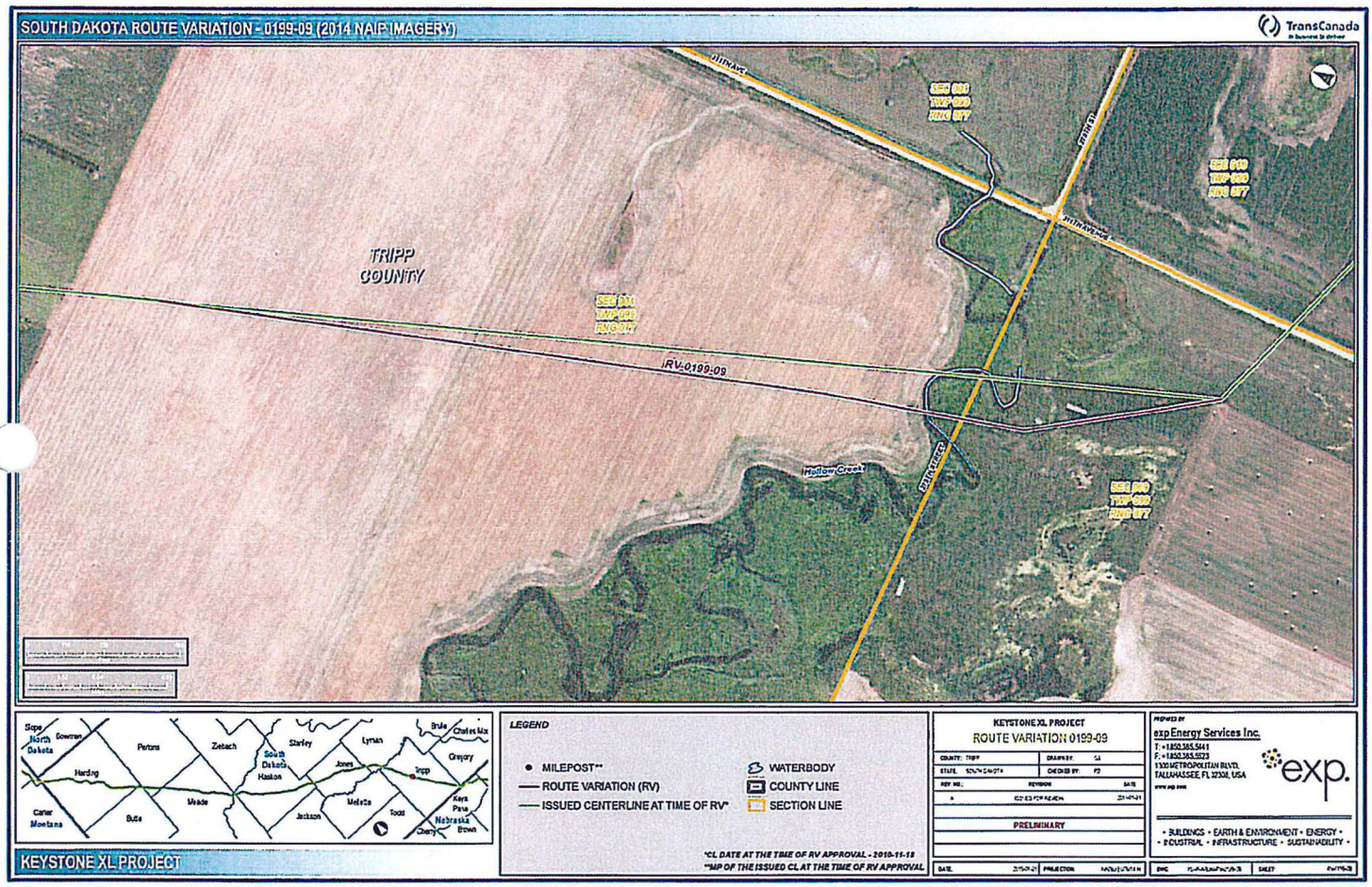
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0199-09 (2014 NAIP IMAGERY)
TransCanada
TRIPP COUNTY
IRV-0199-09
Hollow Creek
Slope
North Dakota
Bowman
Perkins
Zeibach
Harding
South Dakota
Haakon
Stanley
Jones
Lyman
Brule
Charles Mix
Gregory
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0199-09
PRELIMINARY
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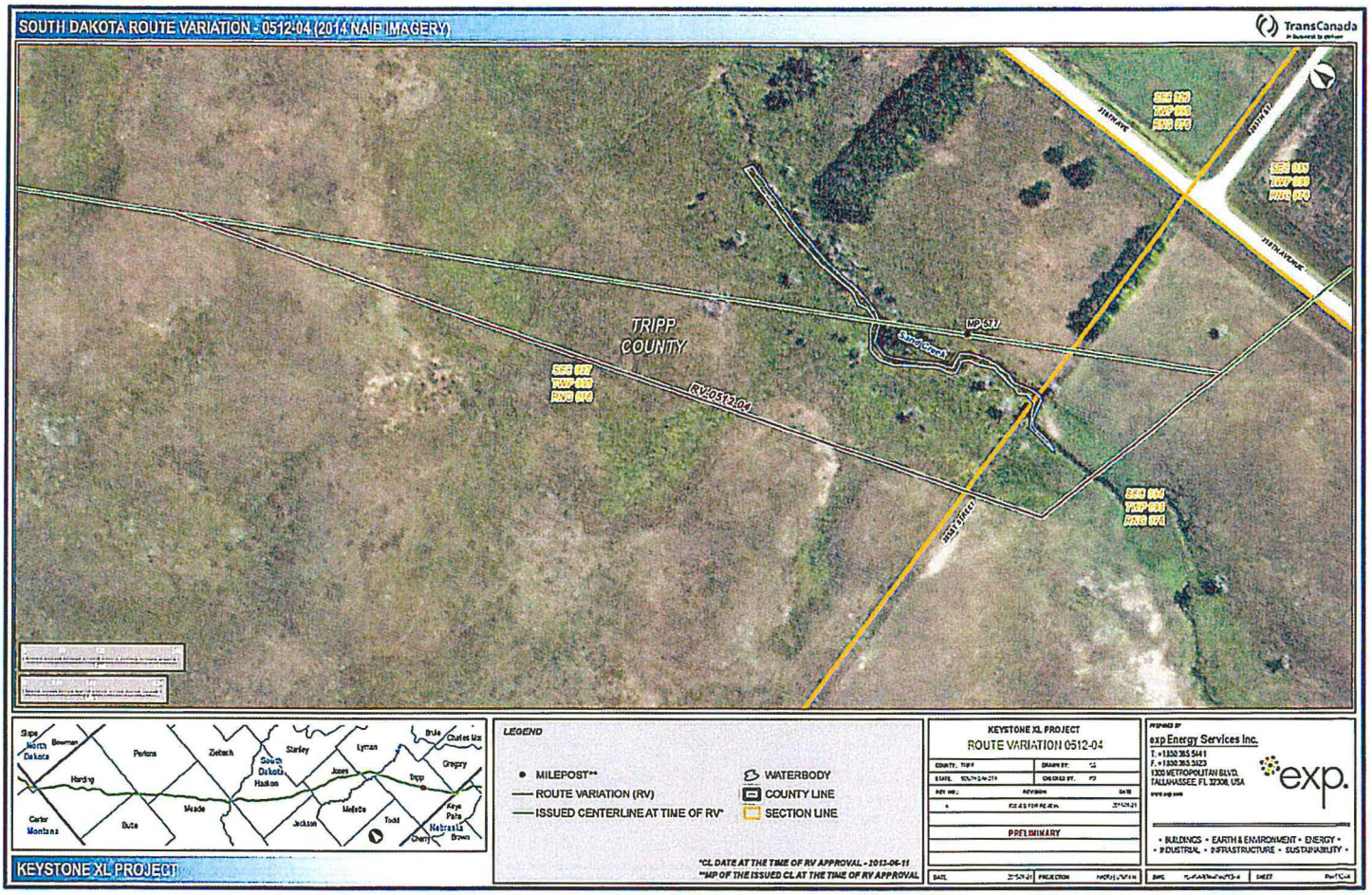
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
KEYSTONE XL PROJECT


SOUTH DAKOTA ROUTE VARIATION - 0512-04 (2014 NAIP IMAGERY)
TransCanada
TRIPP COUNTY
MP 57
RV-0512-04
SEC 027 TWP 095 RNG 079
SEC 026 TWP 095 RNG 079
SEC 035 TWP 095 RNG 079
SEC 034 TWP 095 RNG 079
SEC 003 TWP 094 RNG 079
JUTH AVENUE
WEST STREET
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Brown
Cherry
Carter
Montana
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0512-04
PRELIMINARY
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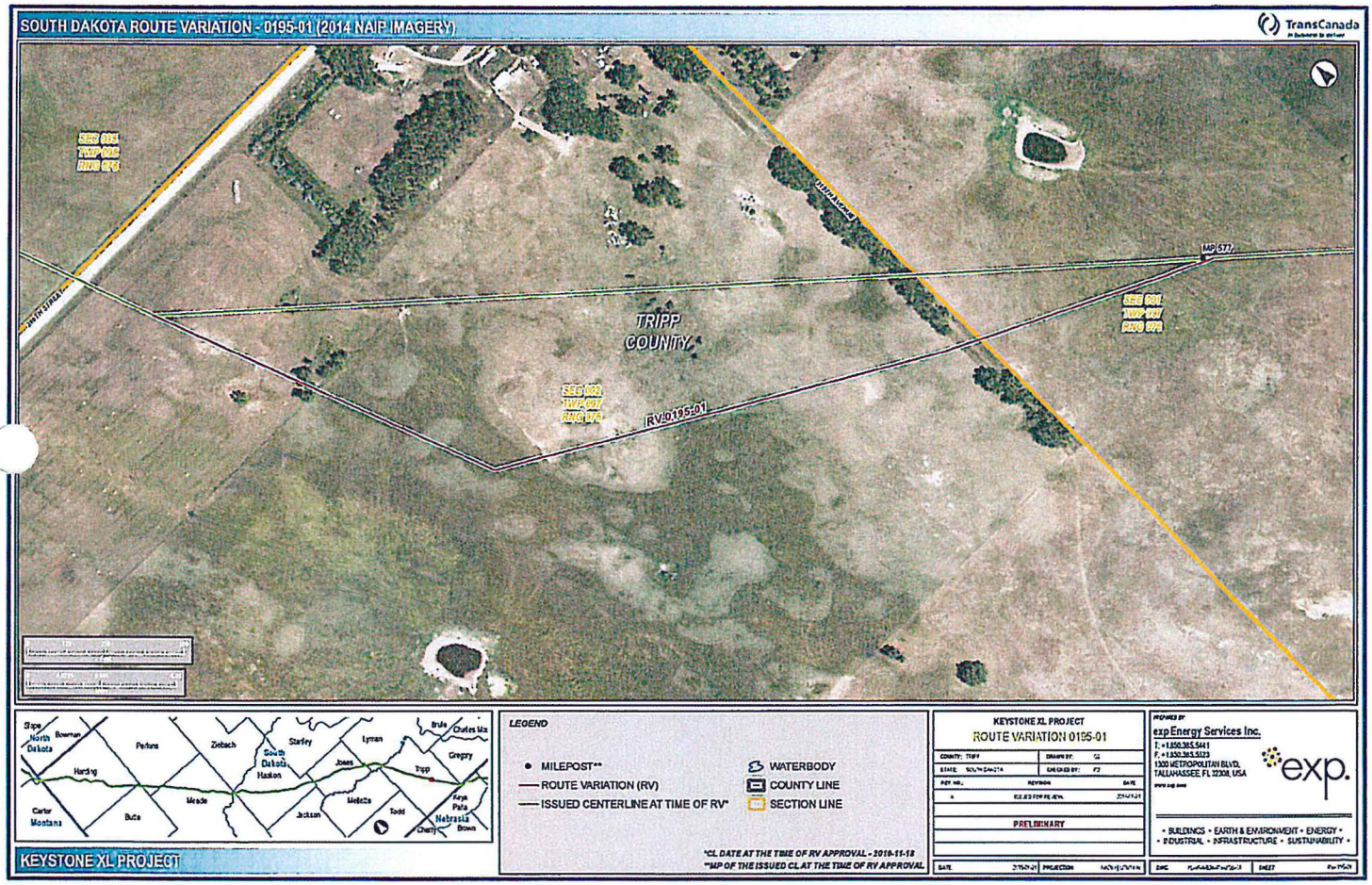
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0195-01 (2014 NAIP IMAGERY)
TransCanada
SEC 015
TWP 095
RNG 076
MAINLINE
MP 577
TRIPP COUNTY
SEC 001
TWP 097
RNG 076
SEC 002
TWP 097
RNG 076
RV-0195-01
Stops
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2016-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0195-01
COUNTY: TRIPP
DRAWN BY:
STATE: SOUTH DAKOTA
CHECKED BY:
REV NO.
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
exp Energy Services Inc.
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1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
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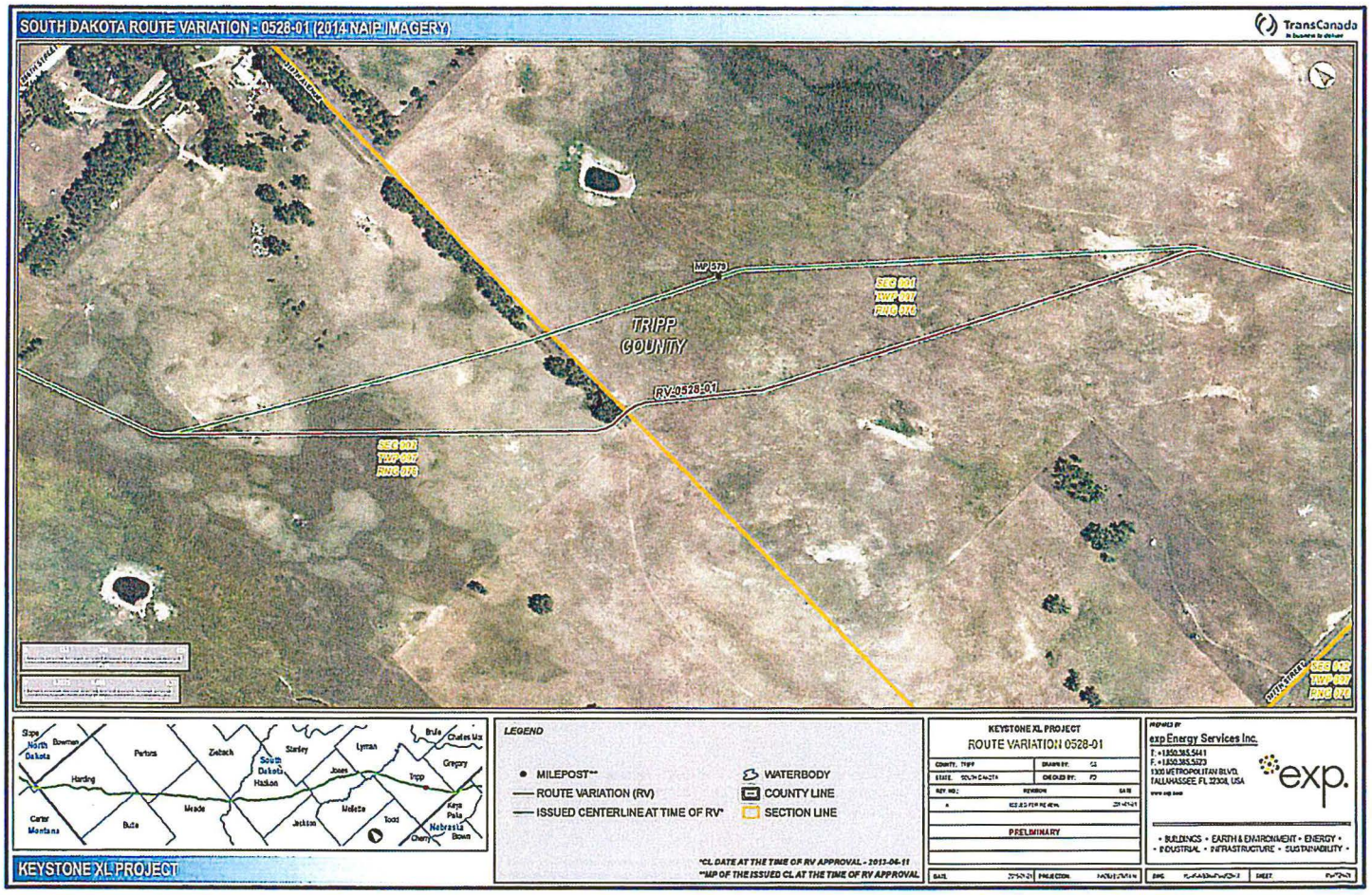
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
SHEET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TransCanada
MP 379
TRIPP COUNTY
RV-0528-01
SEC 001
TWP 097
RNG 076
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Haakon
Stanley
Lyman
Jones
Brule
Charles Mix
Gregory
Tripp
Harding
Meade
Butte
Carter
Montana
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-06-11
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0528-01
PRELIMINARY
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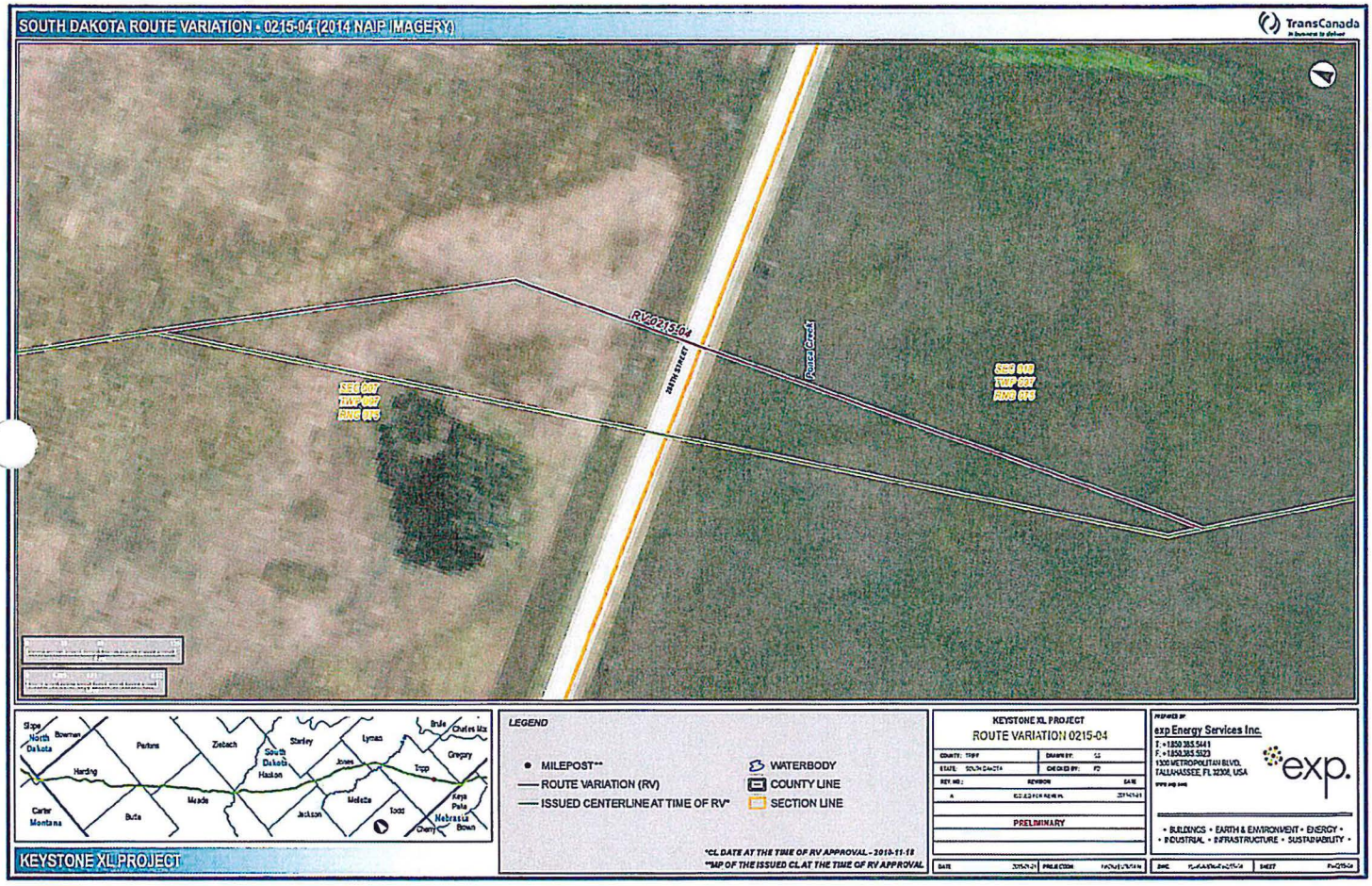
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0215-04 (2014 NAIP IMAGERY)
TransCanada
RV-0215-04
SEC 007
TWP 097
RNG 075
SEC 008
TWP 097
RNG 075
Pouch Creek
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0215-04
PRELIMINARY
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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

SOUTH DAKOTA ROUTE VARIATION - 0294-01 (2014 NAIP IMAGERY)

TransCanada

KEYSTONE XL PROJECT

LEGEND

- MILEPOST**
- ROUTE VARIATION (RV)
- ISSUED CENTERLINE AT TIME OF RV*
- WATERBODY
- COUNTY LINE
- SECTION LINE

*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL

KEYSTONE XL PROJECT
ROUTE VARIATION 0294-01

COUNTY: TRIPP	DRAWN BY:	
STATE: SOUTH DAKOTA	CHECKED BY:	
REV NO.:	REVISION	DATE
A	ISSUED FOR REVIEW	
	PRELIMINARY	

PREPARED BY
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1000 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
www.exp.com

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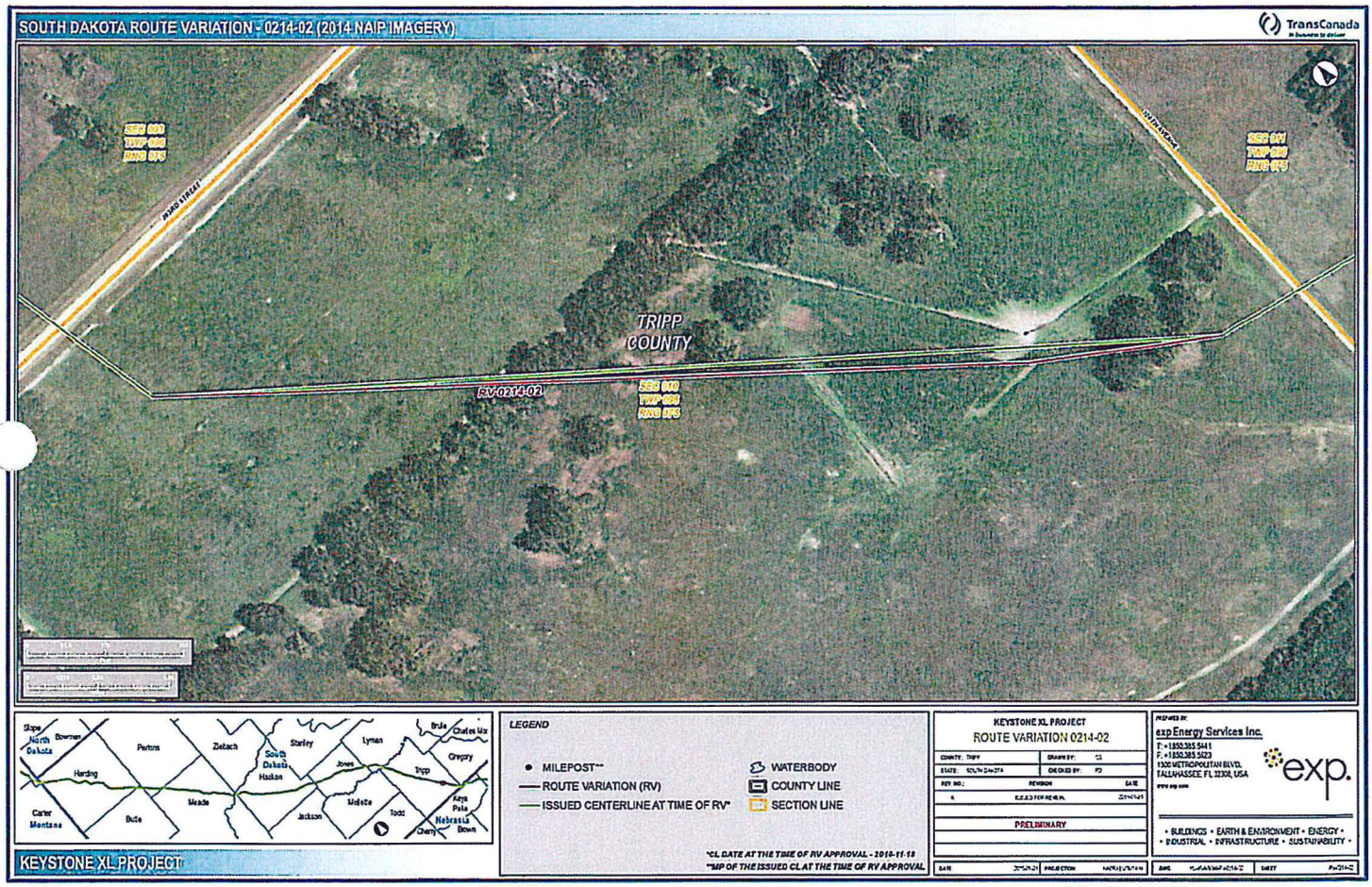
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

DATE | PROJECTION | SIZE | SHEET


SOUTH DAKOTA ROUTE VARIATION - 0214-02 (2014 NAIP IMAGERY)
TransCanada
TRIPP COUNTY
RV-0214-02
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2010-11-18
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0214-02
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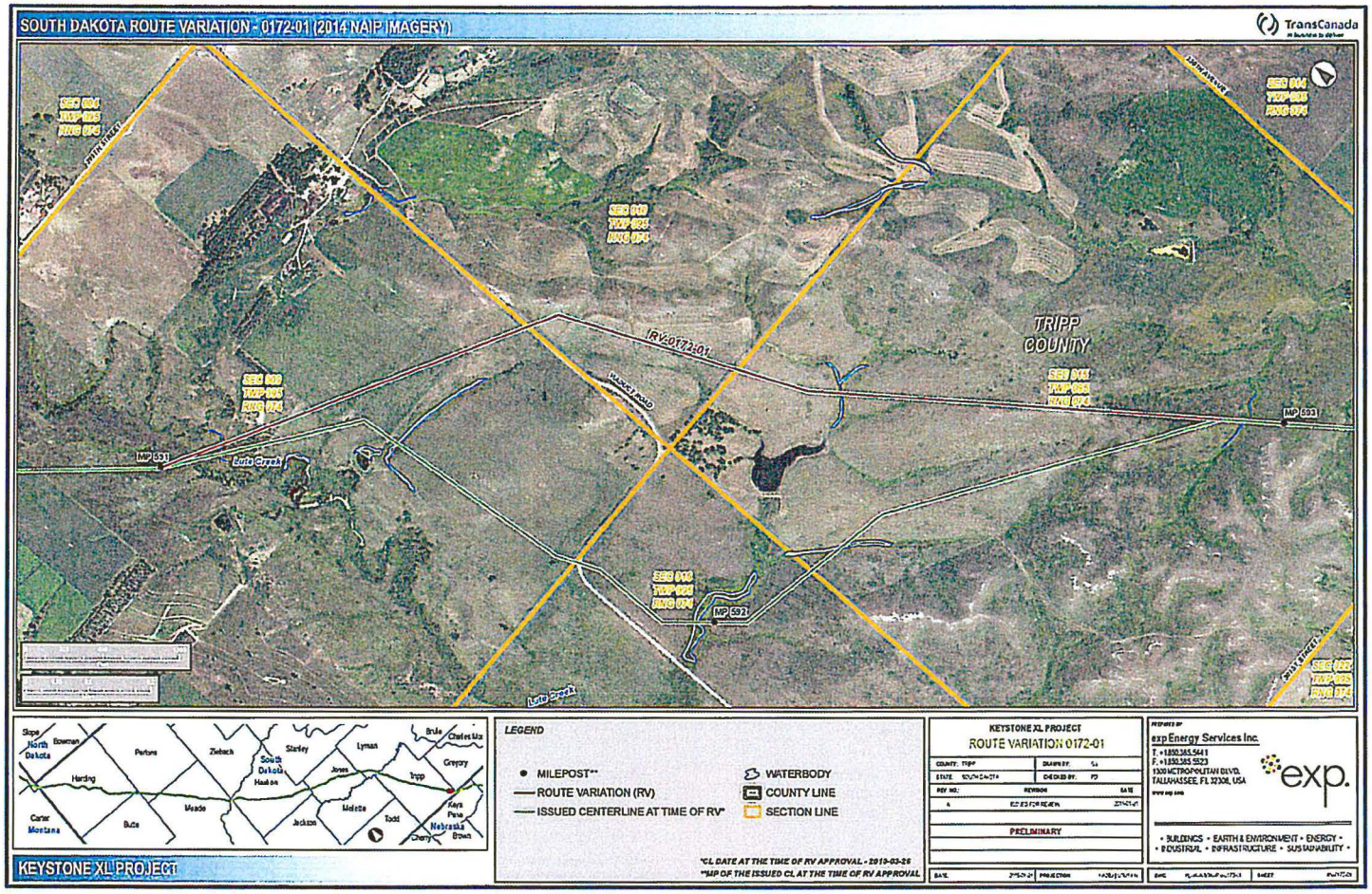
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •


SOUTH DAKOTA ROUTE VARIATION - 0172-01 (2014 NAIP IMAGERY)
TransCanada
SEC 004
TWP 095
RNG 074
TRIPP STREET
SEC 003
TWP 095
RNG 074
RV-0172-01
TRIPP COUNTY
SEC 010
TWP 095
RNG 074
SEC 009
TWP 095
RNG 074
MP 591
MP 592
Little Creek
SEC 016
TWP 095
RNG 074
SEC 015
TWP 095
RNG 074
SEC 022
TWP 095
RNG 074
Slope
North Dakota
Bowman
Perkins
Ziebach
Stanley
Lyman
Brule
Charles Mix
South Dakota
Haakon
Jones
Tripp
Gregory
Harding
Meade
Mellette
Todd
Keya Paha
Nebraska
Brown
Carter
Montana
Butte
Jackson
Cherry
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-03-26
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
KEYSTONE XL PROJECT
ROUTE VARIATION 0172-01
COUNTY: TRIPP
DRAWN BY: SA
STATE: SOUTH DAKOTA
CHECKED BY: FD
REV NO.
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
PREPARED BY
exp Energy Services Inc.
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F. +1.850.385.5523
1300 METROPOLITAN BLVD.
TALLAHASSEE, FL 32308, USA
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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
DATE
PROJECTION
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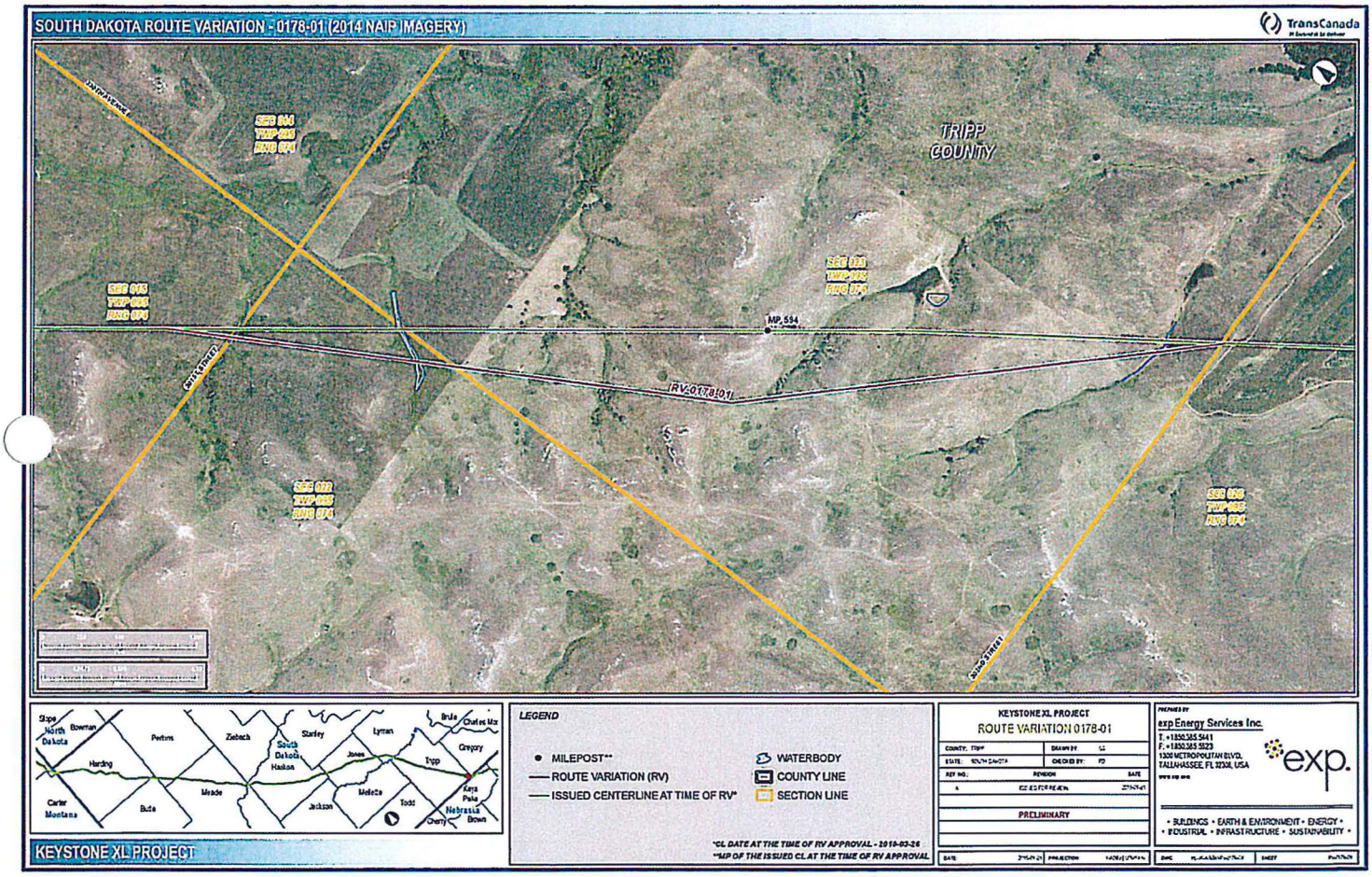
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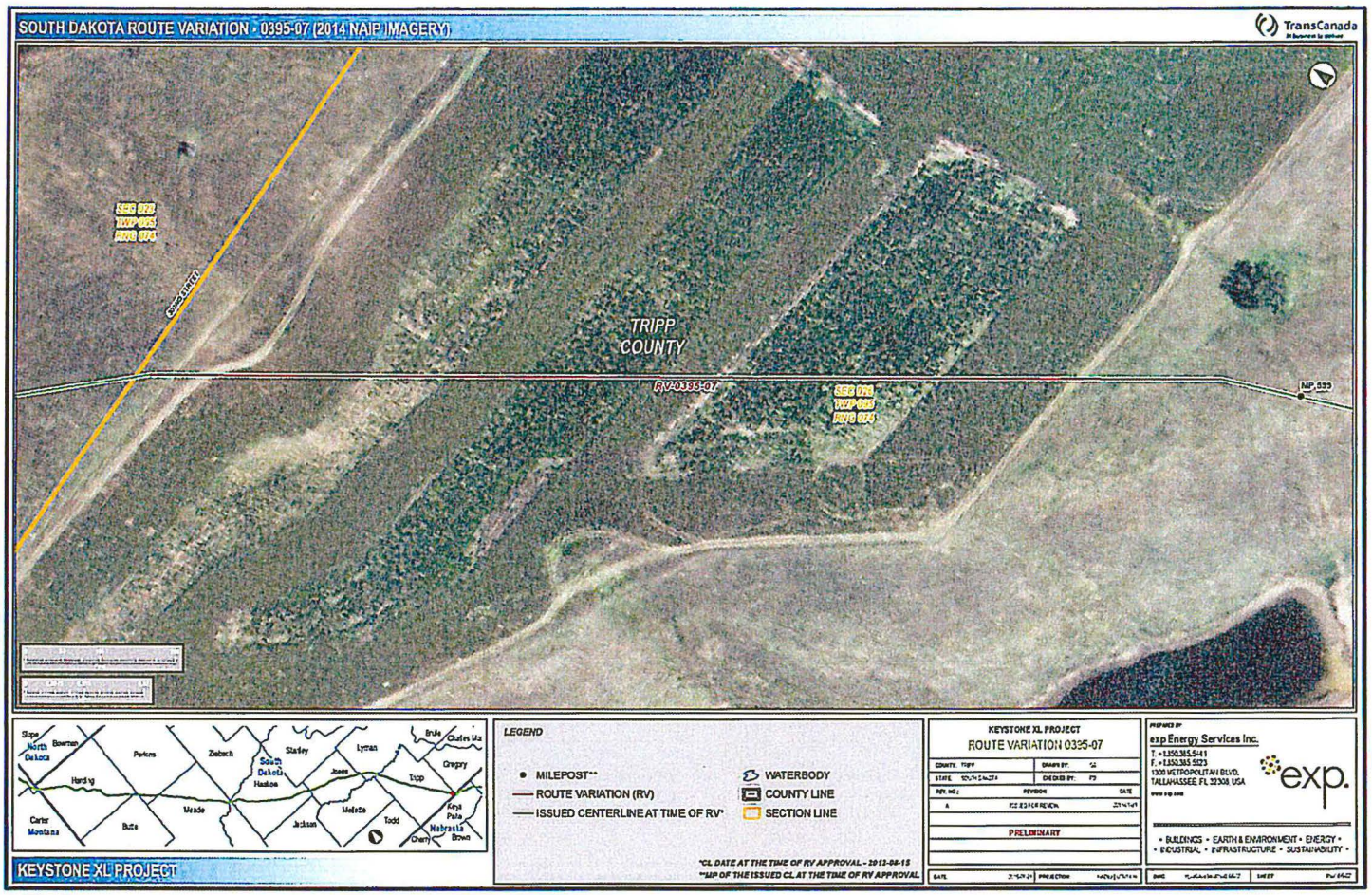
TransCanada
TRIPP COUNTY
MP 554
RV-0178-01
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2014-03-26
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0178-01
PRELIMINARY
exp Energy Services Inc.
exp.
KEYSTONE XL PROJECT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TransCanada
SEC 029
TWP 095
RNG 074
TRIPP COUNTY
RV-0395-07
SEC 016
TWP 095
RNG 074
MP 539
Slope
North Dakota
Bowman
Perkins
Ziebach
South Dakota
Stanley
Lyman
Brule
Charles Mix
Gregory
Hardin
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2013-08-15
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0395-07
COUNTY: TRIPP
STATE: SOUTH DAKOTA
REV. NO.:
REVISION
DATE
A
PRELIMINARY
PREPARED BY
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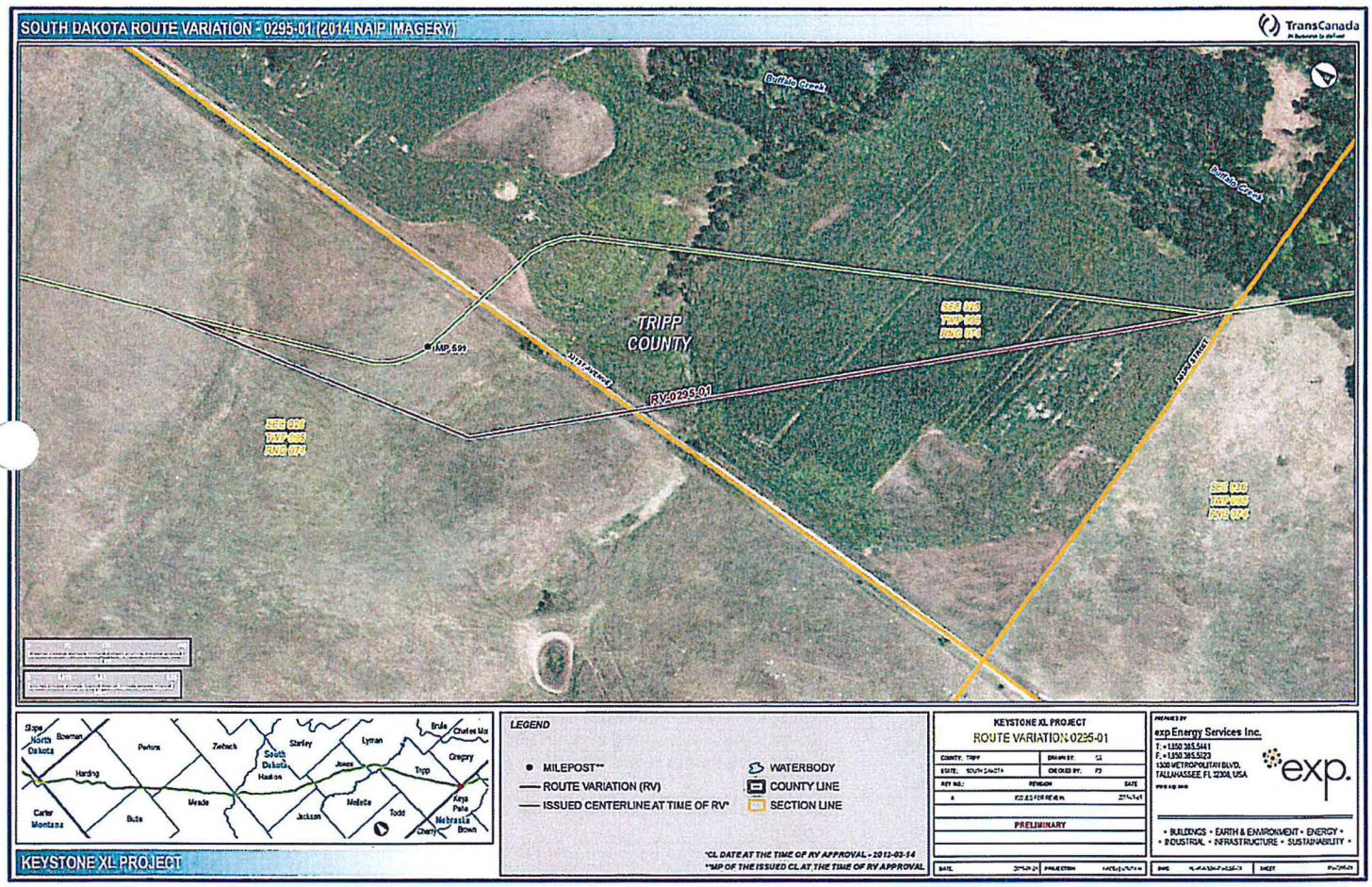
SOUTH DAKOTA ROUTE VARIATION - 0295-01 (2014 NAIP IMAGERY)
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Buffalo Creek
Buffalo Creek
TRIPP COUNTY
SEC 026
TWP 095
RNG 074
MP 5.91
RV-0295.01
SEC 026
TWP 095
RNG 074
SEC 026
TWP 095
RNG 074
SEC 026
TWP 095
RNG 074
Slope
North Dakota
Bowman
Perkins
Zeibach
Stanley
Lyman
Brule
Charles Mix
Gregory
Harding
South Dakota
Haakon
Jones
Tripp
Carter
Montana
Butte
Meade
Jackson
Mellette
Todd
Keya Paha
Nebraska
Cherry
Brown
KEYSTONE XL PROJECT
LEGEND
MILEPOST**
ROUTE VARIATION (RV)
ISSUED CENTERLINE AT TIME OF RV*
WATERBODY
COUNTY LINE
SECTION LINE
*CL DATE AT THE TIME OF RV APPROVAL - 2012-03-14
**MP OF THE ISSUED CL AT THE TIME OF RV APPROVAL
KEYSTONE XL PROJECT
ROUTE VARIATION 0295-01
COUNTY: TRIPP
DRAWN BY: SS
STATE: SOUTH DAKOTA
CHECKED BY: FJ
REV NO.:
REVISION
DATE
A
ISSUED FOR REVIEW
PRELIMINARY
DATE
PROJECTION
PREPARED BY
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1300 METROPOLITAN BLVD.
TALLAHASSEE FL 32308, USA
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South Dakota Route Variations

Route Variation Number	State	County	Reason
0166-01	SD	Harding	Route variation to minimize constructability and safety concerns with current County Road 988 crossing.
0167-01	SD	Jones	Route variation to minimize constructability and safety concerns with current Interstate 90, Hwy 16 and State Railroad crossings.
0172-01	SD	Tripp	Route variation to minimize landowner impacts and reduce crossing of varying terrain features.
0178-01	SD	Tripp	Route variation to minimize constructability and safety concerns with current Interstate 90, Hwy 16 and State Railroad crossings.
0179-01	SD	Harding	Route variation to avoid endangered species.
0181-01	SD	Haakon	Route variation to remove unnecessary points of inflection in the route and reduce the route length.
0187-01	SD	Haakon	Route variation per landowner request and to avoid crossing a pond.
0188-01	SD	Haakon	Route variation per landowner request to minimze construction impacts to a pond.
0190-01	SD	Harding	Route variation to avoid paleontological features.
0192-01	SD	Harding	Route variation to minimize multiple crossing of a waterline.
0195-01	SD	Tripp	Route variation per landowner requests to avoid a row of trees and minimize landowner impacts.
0196-01	SD	Haakon	Route variation to minimimize crossing length of Hwy 73 and constructability concerns.
0199-01	SD	Perkins	Route variation to minimize multiple creek crossings.
0199-02	SD	Meade	Route variation to minimize multiple creek crossings and avoid paralling drainage feature.
0199-03	SD	Haakon	Route variation to avoid paralling drainage feature.
0199-05	SD	Haakon	Route variation to minimize creek crossings and adjust for better constructability of creek crossing.
0199-06	SD	Haakon	Route variation to avoid drainage feature and eliminate construction impacts to the levee.
0199-08	SD	Lyman	Route variation to avoid drainage features.
0199-09	SD	Tripp	Route variation to minimize multiple creek crossings.
0200-01	SD	Haakon	Route variation to minimize creek crossings, adjust for better constructability of creek crossing and minimize construction impacts to a pond.
0212-01	SD	Harding	Route variation to accommodate HDD design for the Little Missouri River.
0214-01	SD	Meade	Route variation to avoid a well and levee.
0214-02	SD	Tripp	Route variation to avoid a well and impacts to a fence.
0215-01	SD	Harding	Route variation to avoid varying terrain features.
0215-02	SD	Meade	Route variation to avoid paralling a creek.
0215-03	SD	Haakon	Route variation to avoid sudden terrain change.
0215-04	SD	Tripp	Route variation to avoid road crossing within a wetland area.
0216-01	SD	Lyman	Route variation to minimize side slope construction.
0216-02	SD	Tripp	Route variation to minimize side slope construction.
0220-01	SD	Haakon	Route variation to accommodate HDD design for the Bad River.
0224-01	SD	Meade	Route variation to minimize multiple creek crossings.
0239-01	SD	Haakon	Route variation to avoid sudden terrain change.
0252-01	SD	Meade	Route variation to avoid ridge lines, varying terrain and sudden terrain changes.
0252-02	SD	Meade	Route variation to avoid ridge lines, varying terrain and sudden terrain changes.
0252-03	SD	Haakon	Route variation to accommodate HDD design for the Cheyenne River.
0256-01	SD	Haakon	Route variation to remove unnecessary points of inflection in the route and reduce the route length.
0256-02	SD	Haakon	Route variation to accommodate a road crossing.
0256-03	SD	Jones	Route variation to minimize the route length.
0257-01	SD	Perkins	Route variation to avoid construction foot print impacts paralleling a road.
0257-02	SD	Meade	Route variation to avoid route and construction foot print impacts paralleling a road.
0258-01	SD	Harding	Route variation to avoid crossing a pond.
0260-01	SD	Haakon	Route variation to accommodate waterline crossings.
0260-02	SD	Haakon	Route variation to accommodate waterline crossings.
0260-03	SD	Haakon	Route variation to avoid construction foot print on waterline.
0260-04	SD	Haakon	Route variation to avoid crossing waterlines.
0262-01	SD	Haakon	Route variation to increase seperation of route and pond spillway due to constructability and avoid potential future concerns.
0269-01	SD	Harding	Route variation to avoid cultural site.

South Dakota Route Variations

Route Variation Number	State	County	Reason
0270-01	SD	Meade	Route variation to avoid constuction foot print impacts to cattle guard and fence.
0272-01	SD	Haakon	Route variation to minimize side slope construction and varying terrain.
0279-01	SD	Jones	Route variation to remove unnecessary points of inflection in the route and reduce the route length.
0280-01	SD	Harding	Route variation to avoid varying terrain and sudden terrain changes.
0281-01	SD	Harding	Route variation to avoid side slope construction.
0282-01	SD	Harding	Route variation to minimize drainage crossings and avoid paralleling a drainage.
0285-01	SD	Haakon	Route variation to accommodate road and creek crossings.
0286-01	SD	Haakon	Route variation to remove unnecessary points of inflection in the route, reduce the route length and better valve location.
0287-01	SD	Lyman	Route variation to accommodate road crossing and better valve location.
0289-01	SD	Haakon	Route variation to accommodate pump station design.
0289-02	SD	Jones	Route variation to accommodate pump station design.
0291-01	SD	Harding	Route variation to avoid paralleling and minimize multiple creek crossings.
0292-01	SD	Harding	Route variation to avoid paralleling a creek.
0293-01	SD	Jones	Route variation to avoid construction impacts to a pond and levee. Also, minimize varying terrain features.
0294-01	SD	Tripp	Route variation to avoid a well and construction foot print impacts to a fence surrounding a historical site.
0295-01	SD	Tripp	Route variation to avoid a drainage crossing and accommodate a road crossing.
0296-01	SD	Butte / Perkins	Route variation to avoid terrain feature.
0310-01	SD	Jones	Route variation to avoid paralleling a drainage and increase seperation at a washout at a creek crossing.
0311-01	SD	Perkins	Route variation to avoid a cultural site and accommodate a creek crossing.
0314-01	SD	Tripp	Route variation to avoid side slope construction and sudden terrain changes.
0372-01	SD	Haakon	Route variation to accommodate valve placement.
0381-01	SD	Harding	Route variation to avoid crossing a pond.
0382-01	SD	Harding	Route variation to minimize construction foot print on adjacent landowner property.
0384-01	SD	Meade	Route variation to avoid impacts to adjacent property.
0383-01	SD	Jones	Route variation to accommodate waterline crossing.
0385-01	SD	Haakon	Route variation to minimize multiple crossing of a waterline.
0395-01	SD	Harding	Route variation to accommodate pump station design.
0395-02	SD	Harding	Route variation to accommodate pump station design.
0395-03	SD	Meade	Route variation to accommodate pump station design.
0395-04	SD	Haakon	Route variation to accommodate pump station design.
0395-05	SD	Jones	Route variation to accommodate pump station design.
0395-06	SD	Tripp	Route variation to accommodate pump station design.
0395-07	SD	Tripp	Route variation to accommodate pump station design.
0413-01	SD	Harding	Route variation to avoid washouts and sudden terrain changes.
0442-01	SD	Jones	Route variation to accommodate waterline crossing.
0443-01	SD	Lyman	Route variation to avoid paralleling a creek.
0443-02	SD	Jones	Route variation to avoid paralleling a creek.
0443-04	SD	Haakon	Route variation to avoid waterbody crossing.
0443-05	SD	Jones	Route variation to avoid paralleling a creek.
0455-01	SD	Haakon	Route variation to increase parallel seperation of route and waterline.
0455-02	SD	Haakon	Route variation to increase parallel seperation of route and waterline.
0456-01	SD	Harding	Route variation to avoid an oil well.
0470-01	SD	Harding	Route variation to avoid creek crossing.
0470-02	SD	Haakon	Route variation to minimize multiple creek crossings.
0470-03	SD	Jones	Route variation to minimize multiple creek crossings.
0470-04	SD	Perkins	Route variation to avoid paralleling a creek.
0470-05	SD	Perkins	Route variation to avoid paralleling a creek.
0470-06	SD	Meade	Route variation to accommodate creek crossing.
0470-07	SD	Meade	Route variation to avoid a pond.
0470-09	SD	Perkins	Route variation to avoid ravine.
0470-10	SD	Perkins	Route variation to avoid paralleling a creek.

South Dakota Route Variations

Route Variation Number	State	County	Reason
0478-01	SD	Meade	Route variation to accommodate road crossing.
0491-01	SD	Meade	Route variation to avoid drainage.
0497-01	SD	Haakon	Route variation to accommodate road crossing.
0512-01	SD	Meade	Route variation to avoid any well impacts.
0512-02	SD	Meade	Route variation to avoid any well impacts.
0512-03	SD	Tripp	Route variation to avoid any well impacts.
0512-04	SD	Tripp	Route variation to avoid any well impacts.
0514-01	SD	Butte	Route variation to avoid cultural site.
0515-01	SD	Harding	Route variation to avoid cultural site.
0527-01	SD	Harding	Route variation to avoid cultural site.
0527-02	SD	Perkins	Route variation to avoid cultural site.
0528-01	SD	Tripp	Route variation to avoid swampy low lying area near a pond.
0543-01	SD	various	Route variation to accommodate HDD designs.