KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT) 1 2 3 5 6 8 9 10 11 5, 5, 6, 6, 6, 7, 7, 10, 10

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		ASE IV, US PIPELIN PIPELINE ROUT	E VARIATION FOR			刘族 出土	
ARIATION TYPE:	Refinement:			Reroute:	x		
c	Centerline: X		Valve Site:		F	ump Station:	
OCATION:	Sketch:	Attache	ed	Pictures: Se	e attached.		
State: SI	D, NE County:	Multiple	AND	Quad Map: N/	and a wind the set	the second	BUILD DE
ALS DON R DON CONTRACTOR	lultiple Range:	Multiple		Aerial Map: Se	A CASE AND A CALLER AND A CALLER AND A	neet	and the second
Section: M	lultiple	Centerline:	11/18/2010	MP:	XXX.X	to	XXX.X
				S DAN TEL S			
	ARIATION (Please Includ		the second se	- 14		a freedom	
d/or avoid crossing a m	proposed route variations eandering stream multiple	times. The reason i	for the route variation	n is listed in the	Ing the pipelin Supplements	e along draina( al Info" tab	ge teatures
	been proposed based on						
		a combination of Fig			a, notometry		1.5.
	ON (Please describe rout	in unintian in detail):	CERT WEITER		AN THE STORY	THE SALES	Same Street
ETAIL HOUTE VARIATI	ON (Flease describe rout	e variation in detail):	a star and the				
isted in "Supplemental Inf	fo" Tab.				0000444400		
le neu lendeuren heur h							
io new landowners have t	peen affected by the prope	osed route vanations	3.				
DDITIONAL IMPACTS (I	Please include any additio	mal impacts which m	nav affect cost; cross	sings, induction	bends, etc.):		
and the second se		mal impacts which m	ay affect cost; crost	sings, induction	bends, etc.):		
ADDITIONAL IMPACTS (I		mal impacts which m	nay affect cost; cross	sings, induction	bends, etc.):		
and the second se		mal impacts which m	nay affect cost; cross	sings, induction	bends, etc.):		
and the second se		mal impacts which m	ay affect cost; crost	sings, induction	bends, etc.):		
and the second se		mal impacts which m	nay affect cost; cross	sings, induction	bends, etc.):		
and the second se		mal impacts which m	nay affect cost; cross	sings, induction	bends, etc.):		
and the second se		mal impacts which m	ay affect cost; crost	sings, induction	bands, etc.):		
and the second se		mal impacts which m	ay affect cost; cross	singe, induction	bends, etc.):		
and the second se		mal impacts which m	nay affect cost; cross	sings, induction	bends, etc.):		
and the second se		mal impacts which m	nay affect cost; cross		bends, etc.):		
isted in "Cost Analysis" Tr	ab.	mal impacts which m	nay affect cost; cross	sings, induction			
and the second se		mal impacts which m	nay affect cost; crost		bends, etc.): Received by:		
isted in "Cost Analysis" Tr	ab. Engineering	mal impacts which m	ay affect cost; crost		Received by:		011
isted in "Cost Analysis" Ta	ab.	mal impacts which m	ay affect cost; crost				011
isted in "Cost Analysis" Ta	ab. Engineering	mal impacts which m	iay affect cost; cross	10	Received by:	7/5/2	011
isted in "Cost Analysis" Ta Originator: Date:	ab. Engineering 7/5/2011		nay affect cost; cross		Received by: Date:	7/5/2 Fax to: ?	011
isted in "Cost Analysis" Ta Originator: Date:	ab. Engineering		nay affect cost; cross	10	Received by:	7/5/2 Fax to: ?	011
isted in "Cost Analysis" Tr Originator: Date:	ab. Engineering 7/5/2011		nay affect cost; cross	10	Received by: Date: Filed by:	7/5/2 Fax to: ?	011
isted in "Cost Analysis" Tr Originator: Date:	ab. Engineering 7/5/2011		nay affect cost; cross	10	Received by: Date:	7/5/2 Fax to: ?	011

RV ID	MP Star	t MP End	State	County	Section	Townsh	ip Range	Origina Length (ft)		oute Cha h (ft) Ler	ange in	Max. Perp. Deviation (ft)	Reason for Variation	Brief Variation Description	Additional Impacts/Comments	Number of New Landowners impacted by reroute	Number of Landowners on current route impacted by reroute	Number of tracts purchased on original route.	Civil Survey Complete?	/ Civil Survey Needed (ft)			In Co- Biological Su ocated Complete f Area? Existing Corri	or Complet	ng Propose	for Com d Pr	ural Survey mplete for roposed orridor?	Estimated Length Requiring new Environmental Surveys (ft)	Originator
0199-01	364.713	379.548	SD	Perkins	34	14N	10E	2,578	2,6	72	94	234	To avoid multiple creek crossings (EPH) near MF 364.8	Route variation starts at MP 364.7 and deviates $\sim 28.5^{\circ}$ southwest from C/L for $\sim 484$ ft. It continues southeast for $\sim 317$ ft and continues further southeast towards the C/L for $\sim 1,871$ ft where it rejoins it near MP 365.2.	- Eliminates 2 of the 3 current creek crossings (both ~< 10 ft).	0	1		NO	2,672	NO	NO	NO Yes	Yes	No		No	2,672	Engineering
0199-02	378.908	379.548	SD	Meade	17	12N	12E	3,382	3,4	11	29	214	To avoid laying pipeline along drainage feature (EPH) near MP 379.1	Route variation starts at MP 378.9 and deviates ~9° southwest for ~1,389 ft. Then, it turns southeast for ~2,022 ft to rejoin the C/L near MP 379.5. Along its path, it crosses the unnamed tributary (EPH) only once and at a better crossing location, ~220 ft west of its current location.	- Eliminates 1 of the 2 current creek crossings (~<10 ft).	0	1		NO	3,411	NO	NO	NO Yes	Yes	No		No	3,411	Engineering
0199-03	447.594	448.106	SD	Haakon	4	4N	20E	2,702	2,7	68	66	270	To avoid laying pipeline along drainage feature near MP 447.9	Route variation starts at MP 447.6 and deviates $\sim 20^{\circ}$ northeast for $\sim 768$ ft. Then continues further south for $\sim 1,999$ ft to rejoin the C/L at the PI near MP 448.1.	Eliminate paralleling a drainage for ~1100 ft.	0	2		NO	2,768	NO	NO	NO Yes	Yes	No		No	2,768	Engineering
0199-05	470.809	471.261	SD	Haakon	16,15	2N	23E	2,386	2,3	71	-15	120	To make a better creek crossing (INT) near MP 470.9	Route variation starts at MP 470.8 and deviates ~28° north of current C/L for ~745 ft. Then turns south for ~1,626 ft to rejoin the C/L near MP 471.3. Along its path it crosses the unnamed tributary (INT) only once and at a better crossing location ~ 91 ft north of its current location.	<ul> <li>Eliminates 2 of the 3 current creek crossings (both ~ &lt; 10 ft).</li> <li>Partial variation inside current environmental survey corridor.</li> </ul>	0	2		NO	2,371	NO	NO	NO Yes	Yes	No		No	300	Engineering
0199-06	475.897	476.713	SD	Haakon	20, 21	2N	24E	4,308	4,3	14	6	70	To avoid drainage feature and keep sufficient distance from the levee.	Route variation starts at MP 475.9 and deviates slightly (~2.5°) south of current C/L for ~1,939 ft. Then turns northeast for ~2,375 ft to rejoin the C/L near MP 476.7.	- Variation inside current environmental survey corridor.	0	2		NO	4,314	NO	NO	NO Yes	Yes	No		No	2,500	Engineering
0199-08	532.302	533.063	SD	Lyman	26	104N	79W	4,020	4,1	36	116	260	To avoid drainage features near MP 532.6	Route variation starts at MP 532.3 and deviates slightly $(\sim 6^{\circ})$ north of current C/L for $\sim 1,785$ ft. Then turns south for $\sim 2,351$ ft to rejoin the C/L near MP 533.1.	- Avoids an ineligible Cultural site near MP 532.6	0	2		NO	4,136	NO	NO	NO Yes	Yes	No		No	3,000	Engineering
0199-09	562.215	562.837	SD	Tripp	4,9	99N	77W	3,286	3,3	09	23	150	To avoid multiple creek crossings (INT) near MP 562.7	and at a better crossing location ~ 123 ft, west of its	<ul> <li>Eliminates 2 of the 3 current creek crossings (average ~ 12 ft).</li> <li>Eliminates crossing a PEM Wetland</li> <li>Partial variation inside current environmental survey corridor.</li> </ul>	0	2		NO	3,309	NO	NO	NO Yes	Yes	No		No	1,600	Engineering
0199-10	818.343	8 818.876	NE	Saline	26	6N	1E	2,817	2,4	74	-343	510	To avoid multiple creek crossings (INT) near MP 818.7 and mitigate a sharp PI.	· · · · ·	- Eliminates 2 of the 3 current creek crossings (average ~ 10 ft).	0	2		NO	2,474	NO	NO	NO Yes	Yes	No		No	2,474	Engineering
0199-11	825.433	8 826.544	NE	Saline	20, 29	5N	2E	4,989	5,0	93	104	366	To avoid multiple creek crossings (INT) near MP 825.8 and a side slopes.	Route variation starts at MP 825.4 and deviates ~22° east of current C/L for ~977 ft. Then slightly turns southwest for ~4,134 ft to rejoin the C/L at the PI near MP 826.5. Along its path it crosses the unnamed tributary (INT) only once and at a better crossing location ~315 ft. east of its current location.	- Eliminates 2 of the 3 current creek crossings (average ~ <10 ft).	0	2		NO	5,950	NO	NO	NO Yes	Yes	No		No	5,000	Engineering

# Keystone Phase IV, US - Supplemental Information for Route Variation Report 0199 Prepared: 2011-07-11

# Keystone Phase IV, US - Cost Analysis for Route Variation Report 0199 Prepared: 2011-07-11

RV ID	Additional length (ft)	Cost \$360/ft	Additional length of wetland construction (ft)	Cost \$195/ft	Additional length of side hill construction (ft)	Cos \$19/1		Additional bore length (ft)	Cost 540/ft	Additional Waterbody crossings	Cost /7,250/EA btw 10' - 19') (\$32,500/EA < 10')	Env	Cost of vironmental survey 5,300/mile)	ost of Civil survey 5,000/mile)	Approximate cost for land purchased on current centerline	Miscellaneous cost for additional impacts	Total Cost
0199-01	94	\$ 33,793.37	0	\$-	0	\$	-	0	\$ -	-2	\$ (65,000.00)	\$	2,681.65	\$ 2,529.85	\$ -		\$ (25,995.13)
0199-02	29	\$ 10,438.03	0	\$-	0	\$	-	0	\$ -	-1	\$ (32,500.00)	\$	3,424.12	\$ 3,230.30	\$-		\$ (15,407.54)
0199-03	66	\$ 23,665.41	0	\$-	0	\$	-	0	\$ -	0	\$ -	\$	2,778.00	\$ 2,620.76	\$-	\$ (50,000.00)	\$ (20,935.83)
0199-05	-15	\$ (5,439.06)	0	\$-	0	\$	-	0	\$ -	-2	\$ (65,000.00)	\$	301.14	\$ 2,244.97	\$-		\$ (67,892.96)
0199-06	6	\$ 2,100.16	0	\$-	0	\$	-	0	\$ -	0	\$ -	\$	2,509.47	\$ 4,085.28	\$-	\$ (20,000.00)	\$ (11,305.09)
0199-08	116	\$ 41,764.76	0	\$-	-400	\$ (7,60	00.00)	0	\$ -	0	\$ -	\$	3,011.36	\$ 3,916.76	\$ -	\$ (60,000.00)	\$ (18,907.11)
0199-09	23	\$ 8,336.31	0	\$-	0	\$	-	0	\$ -	-2	\$ (154,500.00)	\$	1,606.06	\$ 3,133.70	\$ -		\$ (141,423.93)
0199-10	-343	\$ (123,446.51)	0	\$-	0	\$	-	0	\$ -	-2	\$ (154,500.00)	\$	2,483.32	\$ 2,342.75	\$-		\$ (273,120.44)
0199-11	104	\$ 37,357.81	0	\$-	0	\$	-	0	\$ -	-2	\$ (65,000.00)	\$	5,018.94	\$ 4,822.70	\$-		\$ (17,800.55)

Overall Estimated Costs of Routes Variations= \$ (592,788.58)

# Keystone Phase IV, US - Approval form for Route Variation Report 0199 Prepared: 2011-07-11

10

RV ID		0199-01	0199-02	0199-03	0199-05	0199-06	0199-08	01
	Approval (Y/N)	Y	Y	Y	Y	Y	Y	
LAND (UFS) Doug Riechley	Comments		-No issues.	-No issues.	-No issues.	- Acquired. No issues.	-No issues.	-No
	Approval (Y/N)	Y =	Y	Y	Y	Y	Y	
ENGINEERING (TransCanada) Meera Kothari / David Guien	Comments							
	Approval (Y/N)	Y	Y	Y	Y	Y	Y	
ENGINEERING (exp) Butch Wallace	Comments							
	Approval (Y/N)	Y	Y	Y	Ŷ	Y	Y	
CONSTRUCTION (TransCanada) Bobby Curbow	Comments	-Add access road nearby.						
	Approval (Y/N)	Y	Y	Y	Y	Y	Ŷ	
ENVIRONMENTAL (exp) Jonathan Minton	Comments	- Additional Env. Survey required	- Additional Env					
	Approval (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A	1
SAFETY (exp.) Jason Milenbruch	Comments							
	Approval (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A	١
FACILITIES (TransCanada) Sandra Gigovic	Comments							
PROJECT MANAGEMENT	Approval (Y/N)	Y	Y	Y	Y	Y	Y	
(TransCanada) Alan Lietz	Comments							
PROJECT MANAGEMENT	Approval (Y/N)	Y-Son	$\gamma - sm$	$\gamma - \epsilon m$	Y-Sm	$\gamma - 8m_{1}$	Y-SM	<u> </u>
(TransCanada) Steve Marr	Comments	8/31/11	\$ 31/11	8/31/11	8/31/11	8/31/11	8/31/11	8

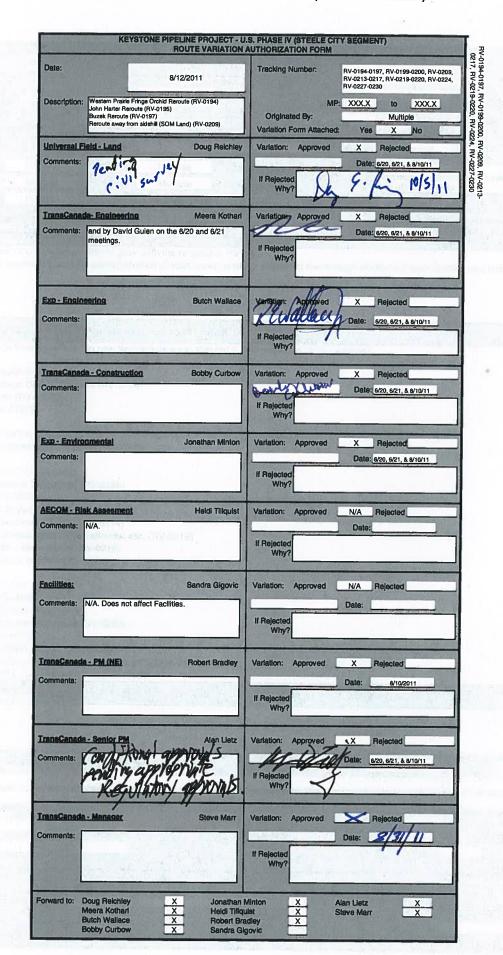
0199-09	0199-10	0199-11
Y	Y	Y
lo issues.	-No issues.	
Y	Y	Ŷ
Y	Y	Y
Y	Y	Y
	-May require additional field verification.	- Pending field verification.
Y	Y	Y
Env. Survey required	- May require additional Env. Survey	- Additional Env. Survey required. - From a regulatory perspective is better not to go through the middle of a creek.
N/A	N/A	N/A
N/A	N/A	N/A
		-
Y	Y	Y
Sm	4-5m 8/31/11	$\gamma - \delta m$
8/31/11	8 /31/H	8/31/11

### **KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)**

	KEYSTONE XL PIPELINE PIPELINE RO	PROJECT - STEELE DUTE VARIATION FO				
VARIATION TYPE: Ref	inement:		Reroute:	X		
Centerline:	x	Valve Site:	X	Pu	mp Station:	
		200			CRIME CRIME	
LOCATION: Ske	tch: Atta	iched	Pictures: Se	e attached		
State: Muitiple	County: Multiple		Quad Map: N/	Contraction of the Contraction o		- Andrews
Township: Multiple	Range: Multiple	11/10/0010	A DESCRIPTION OF A DESC	e attached map	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	
Section: Multiple	Centerline:	11/18/2010	MP:	XXXX.X	to	XXX.X
REASON FOR ROUTE VARIATION (Ple	ase include reason for route	variation):				
The Reason for each Route Variation (R)	/) is given with the respectiv	ve RV file.				
These reroutes are proposed based on a	erial/pictometry/Lydar/flyove	er analysis of current li	ine through Monta	ina, South Dako	ota, and Nebraska	<b>a</b> .
DETAIL ROUTE VARIATION (Please des	scribe route variation in deta	ail):			Start and and	City Sta
See respective Route Variation Files. No	new landowners were affec	ted by the proposed ro	oute variations.			
RVs included: Discussed prior to 6/20/2011:						
Western Prairie Fringe Orchid Reroute	(RV-0194)					
John Harter Reroute (RV-0195) Buzek Reroute (RV-0197)						
Discussed during 6/20/2011 Meeting:	(5)( 0000)					
Reroute away from sidehili (SOM Land	) (HV-0209)					
Discussed during 6/21/2011 Meeting:	8					
Reroutes to avoid creek Crossings (RV MP 475 Reroute (RV-0200)	/-0199)					
Reroutes to lessen/reduce Pis (RV-021)	3)					
Reroutes to avoid waterwell; fence (RV						3
Reroutes to avoid creeks, dropoffs, we Reroutes to avoid sideslopes/hilis (RV-						
Reroutes to avoid pivot centers (RV-02						
Discussed during 8/10/2011 Meeting:						
HWY 73 Reroute (RV-0196)						
HWY 56 Reroute (RV-0219)						
Bad River HDD realignment reroute (R) MP 396 Reroute (RV-0224)	/-0220)					
reliowstone River HDD Entry Pt (RV-0)						
PI Breakdowns of all previous RV's for		-0229)				
CK-MLV-06 and CK-11 Valves relocatio					In the second second second	
ADDITIONAL IMPACTS (Please include a	any additional impacts which	n may affect cost; cros	ssings, induction i	bends, etc.):		ar is
			Mark Carl	l'est		
s there an increase/decrease in the numb	per of crossings?		Yes		No	
f yes, please list:		Arrest Contraction		-		
			AND AND AND AND			
			10	Received by:		
Originator: Multiple						A REAL PROPERTY AND INCOME.
			Capital Lines and	Deter	0/10/001	Durch States
Originator: Multiple Date: 8/12/2011				Date:	8/12/201	1
Date: 8/12/2011		014 017 DU 2017	12	of the Party of The Local Content of the		1
Date: 8/12/2011	94-0197, RV-0199-0200, RV-0209, RV- RV-0224, RV-0227-0230	0213-0217, RV-0219-	12	F		1
Date: 8/12/2011		0213-0217, RV-0219-	12	of the Party of The Local Content of the		1

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### **KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)**



		KEYSTON		PROJECT - STEEL		Τ	
VARIATION TYPE:		Refinement:			Reroute:	X	
And And And And And	Centerline:	x		Valve Site:	X		Pump Station:
OCATION:		Sketch:	Atta	ached	Pictures: S	See attached	
State:	Multiple	County:	Multiple		Quad Map: N	1	
Township:	Multiple	Range:	Multiple		and the second se	See attached m	ap sheet
Section:	Multiple		Centerline:	11/18/2010	MP:	XXXX.X	to XXXX.)
REASON FOR ROUT The Reason for each These reroutes are pr	Route Variation	(RV) is given v	vith the respectiv	ve RV file.	line through Mon	tana, South Da	kota, and Nebraska.
DETAIL ROUTE VAR	IATION (Please	describe route	variation in deta	ali):			
See respective Route	Variation Files.	No new landow	vners were affec	cted by the proposed	route variations.		
NVS Included: Discussed prior to 6/2 Western Prairle Fring John Harter Reroute Buzek Reroute (RV-0	ge Orchid Rero (RV-0195)	oute (RV-0194)					
Discussed during 6/20 Reroute away from s							
Discussed during 6/21 Reroutes to avoid cro MP 475 Reroute (RV-	eek Crossings 0200)	(RV-0199)					
Reroutes to lessen/re Reroutes to avoid wa Reroutes to avoid cru Reroutes to avoid sic	terwell; fence eeks, dropoffs, deslopes/hills (	(RV-0214) wetlands, etc RV-0216)	. (RV-0215)				
Reroutes to avoid ply	/ot centers (RV	-0217)					
ADDITIONAL IMPACT	S (Please inclu	de any addition	al impacts which	h may affect cost; cro	ssings, induction	bends, etc.):	
				a and a second		1.1	1
s there an Increase/de	crease in the n		inge?		Yes		No
f yes, please list:			inger				
Originator:	Multiple	8			10	Received by:	
Date:	8/12/201					Date:	an an interaction that is in the second
		in and the second			WELLEY BURNE		Fax to: ?
	H	V 0104 0105 0	107 81 0100 000	00, RV-0209, RV-	12		
	the second se	IV-0194, 0195. U	197, NV-0199-020	JU, NV-UZUS. NV-			
Assigned Trac	king Number: 0		197, HV-0199-020	50, HV-0209, HV-		Filed by:	
Assigned Trac			197, NV-0199-020	Jo, HV-0209, HV-		Filed by: Date:	and the second second

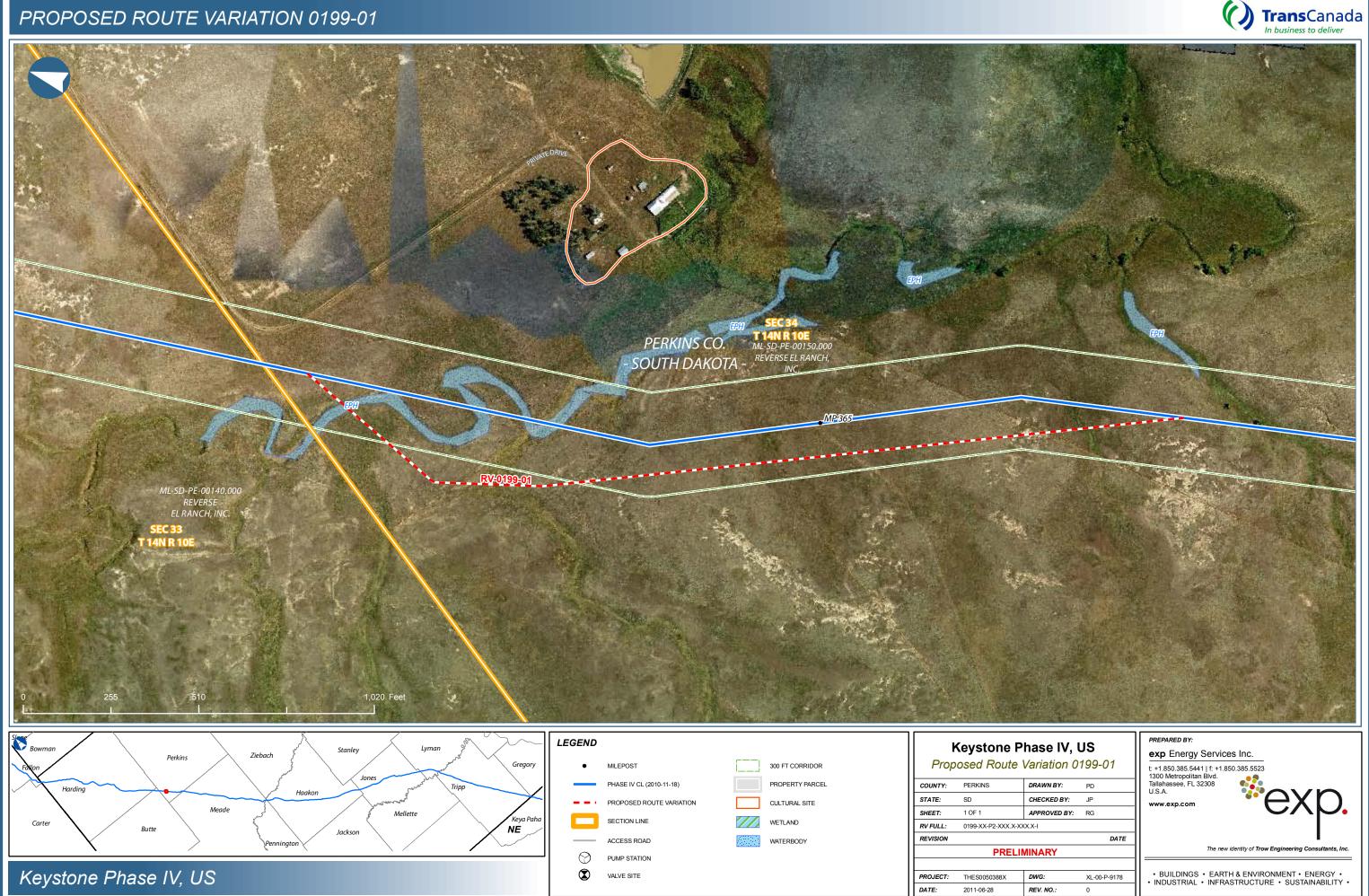
RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217

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## **KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)**

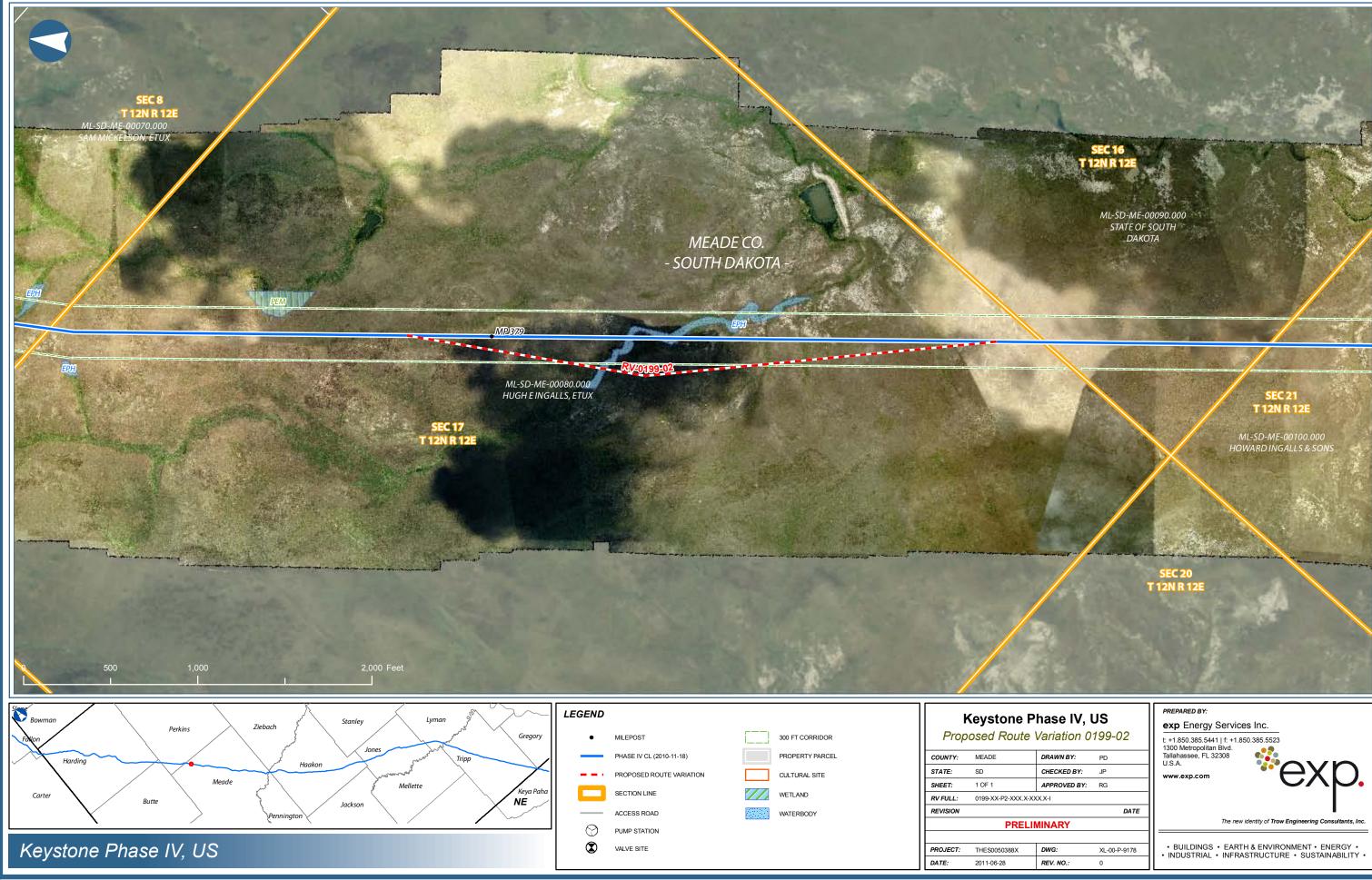
KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT) ROUTE VARIATION AUTHORIZATION FORM RV-0194, 0195, 0197, RV-0199-0200, 0213-0217 Date: Tracking Number: RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217 8/12/2011 Description: Western Prairie Fringe Orchid Renoute (RV-0194); John Harter Renoute (RV-0195); Bucek Renoute (RV-0197); Renoute eway from sidefall (SOM Land) (RV-0209); Renoutes to avoid creat: Crossing: (RV-0199); M4 725 Renoute (RV-0200); Renoutes to lessaviration Pils (RV-0213); Renoutes to avoid waterweil; fence (RV-0214); MP: XXX.X to XXX.X Originated By: Multiple Variation Form Attached: Yes х No Universal Field - Land Doug Reichley Variation: Approved Rejected Publit unt Comments: RV-0209 Date: 6/20, 6/21, & 8/10/11 If Rejected Why? 10/5/11 RV-TransCanada- Engineering Meera Kothari Variation: Approved Rejected х Comments: and by David Gulen on the 6/20 and 6/21 11 Date: 6/20, 6/21, & 8/10/11 Kethani, If Rejecter Why Exp - Engineering **Butch Wallace** Variation: Approved X Rejected Comments: Date: 6/20, 6/21, & 8/10/11 If Rejected Why? TransCanada - Construction **Bobby Curbow** Variation: Approved Х Rejected Laling with Date: 6/20, 6/21, & 8/10/11 Comments: If Rejected Why? Exp - Environmental Jonathan Minton Variation: Approved X Rejected Comments: 6/20, 6/21, & 8/10/11 Pending Survey Complation Why TransCanada - Environmental Stephen Craycroft Variation: Approved Rejected х Comments: Date: 6/20, 6/21, & 8/10/11 If Rejected Why? Facilities: Sandra Gigovic Variation: Approved N/A Rejected N/A. Does not affect Facilities. Comments: Date: If Rejecter Why AECOM - Blak Assessment Heldi Tiliquist Variation: Approved Rejected Comments: N/A Date: If Rejecte Why InnaCanada Variation: Approved Rejected х Comments: Date: 6/20, 6/21, & 8/10/11 If Rejected Why? NEWA . TransCanada - Man Steve Marr Variation: Approved Rejected Comments: Date: If Rejected Why? XXXX Doug Reichley Meera Kothari Butch Waliace Forward to: Jonathan Minton Alan Lietz Х XX X Stephen Craycroft Heidi Tiilquist Steve Marr **Bobby Curbow** Sandra Gigovic

## PROPOSED ROUTE VARIATION 0199-01



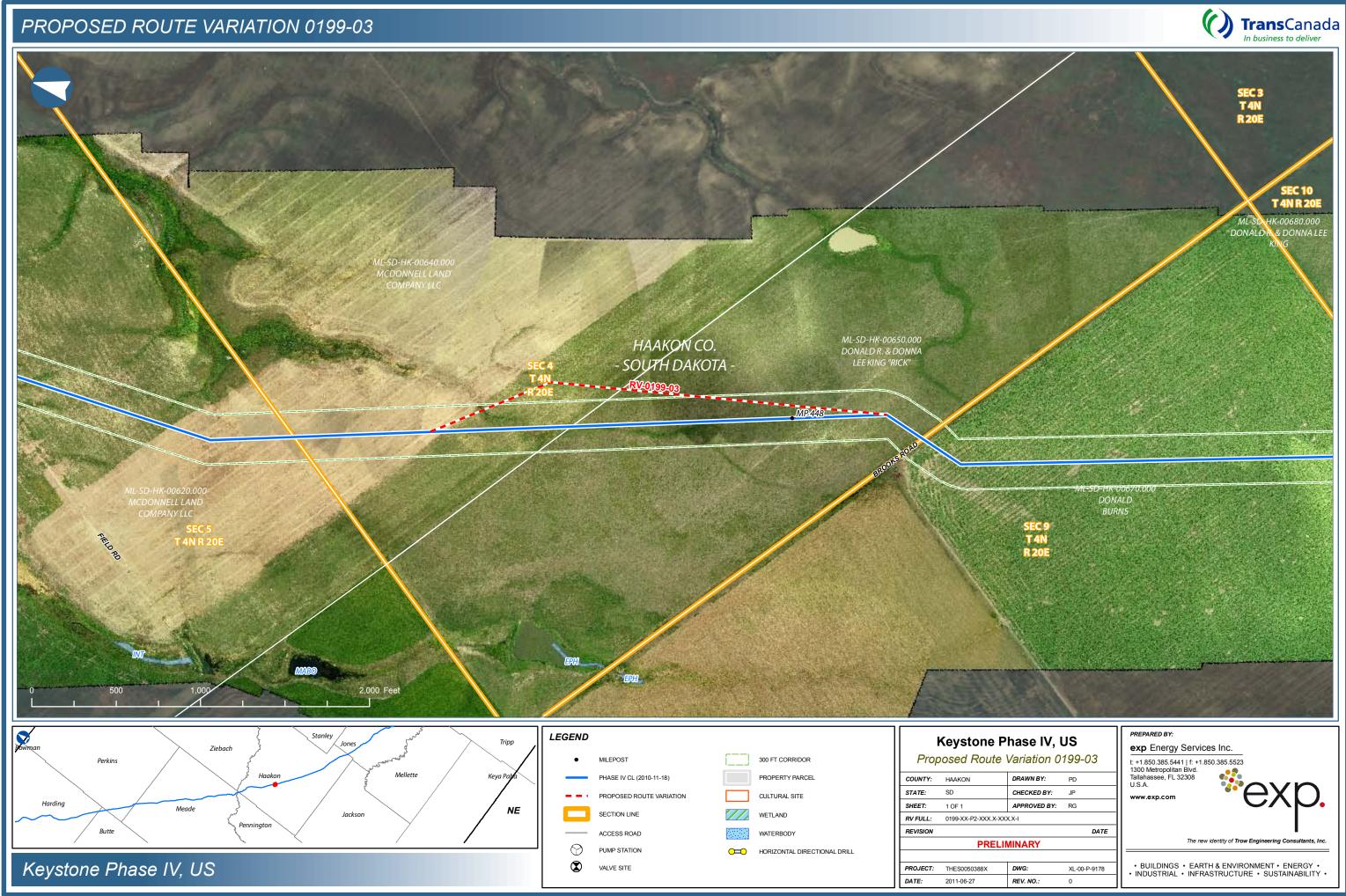
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	CHECKED BY:	JP
	APPROVED BY:	RG
XXX.X-XX	(X.X-I	
		DATE
RELI	MINARY	
38X	DWG:	XL-00-P-9178
	REV. NO.:	0

## PROPOSED ROUTE VARIATION 0199-02

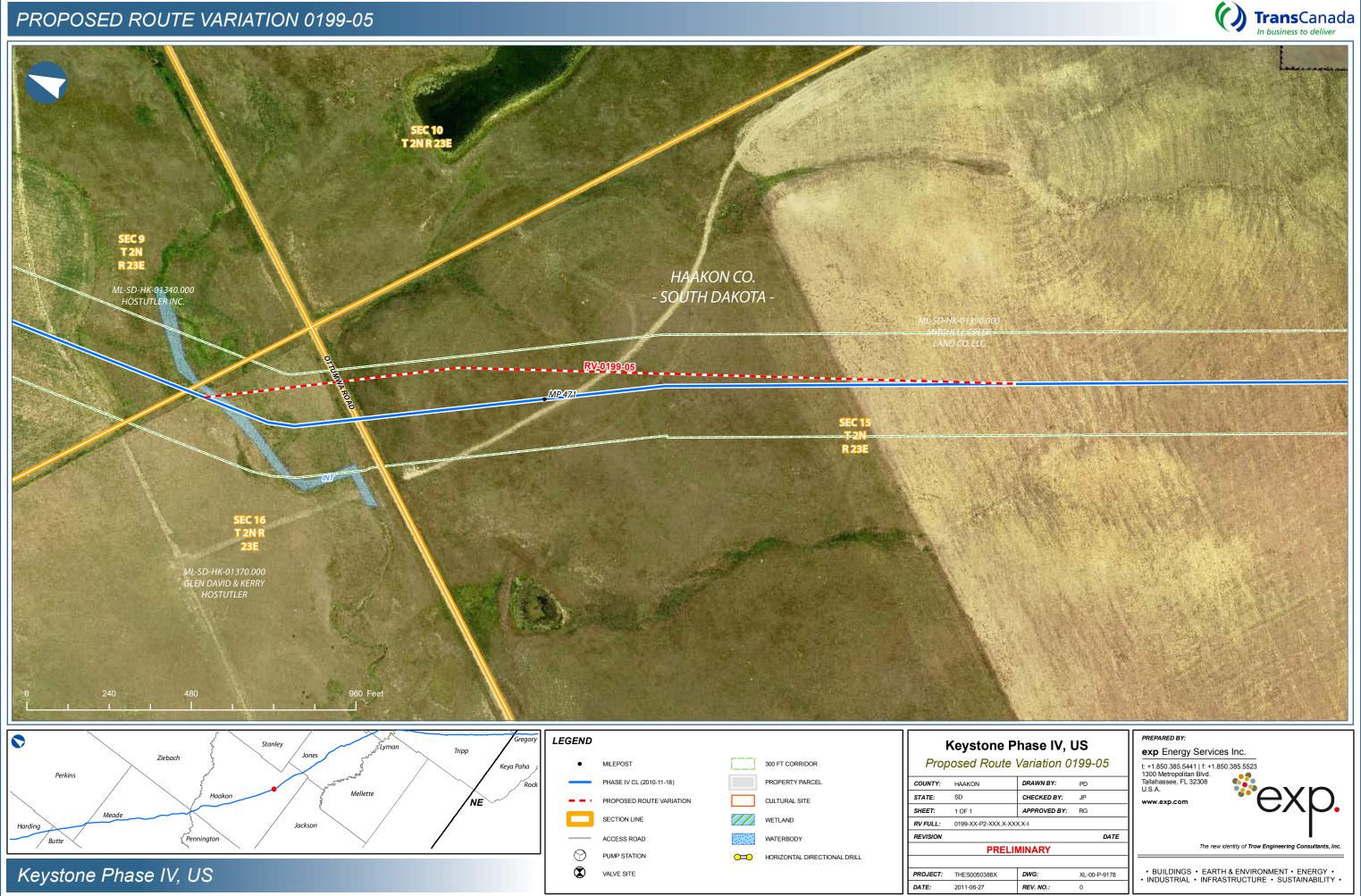




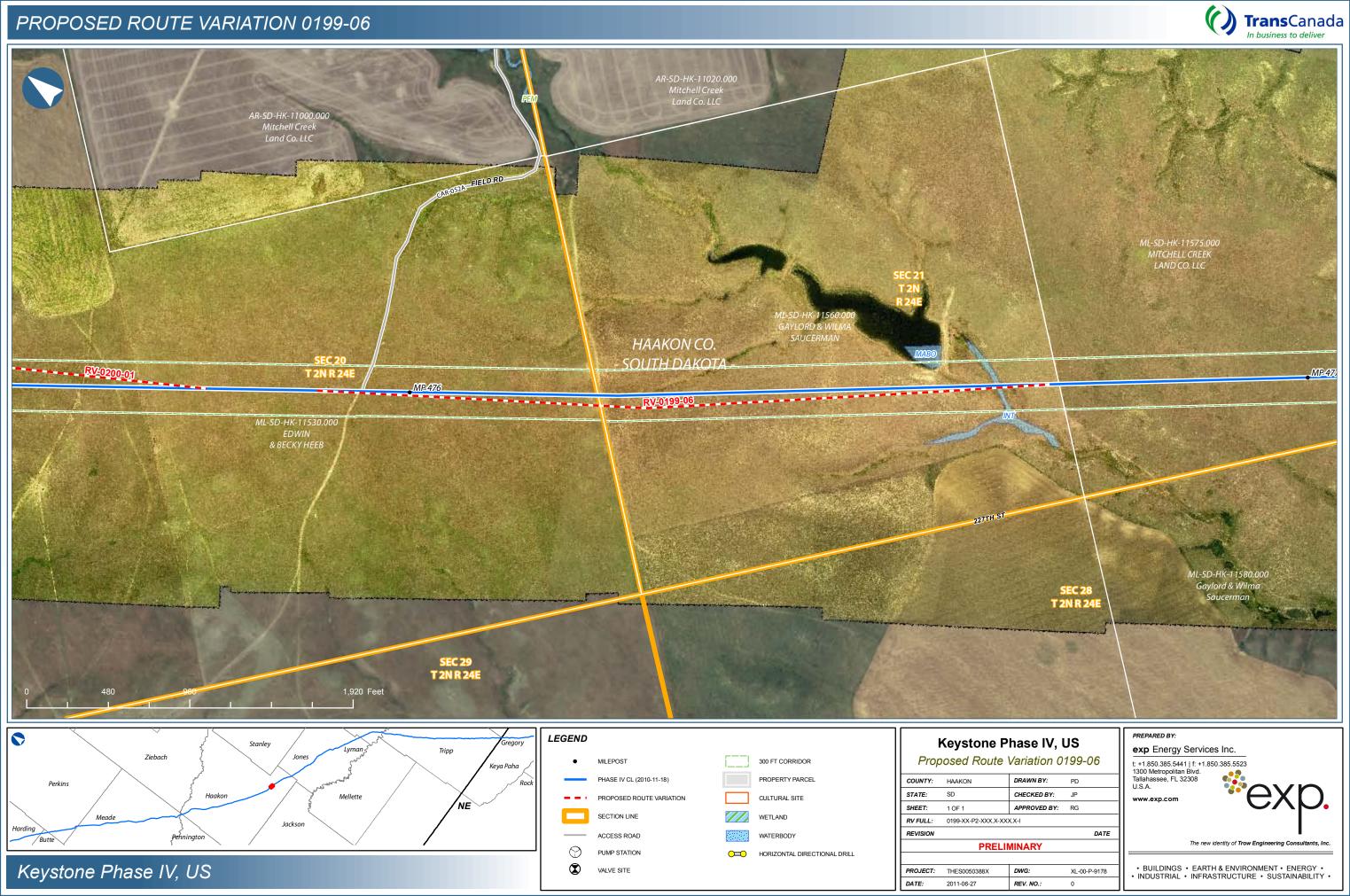
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	APPROVED BY:	RG
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	REV. NO.:	0



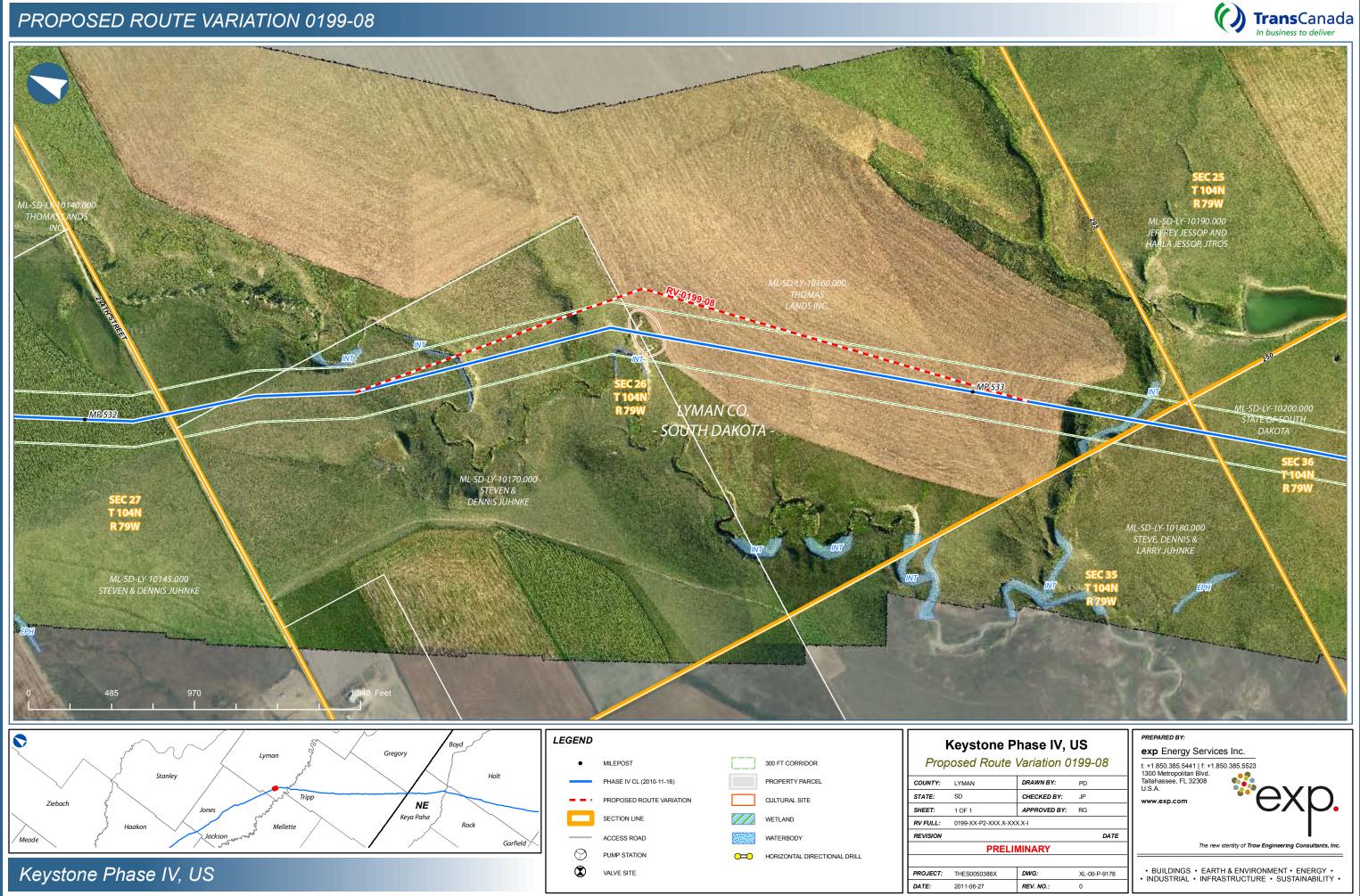
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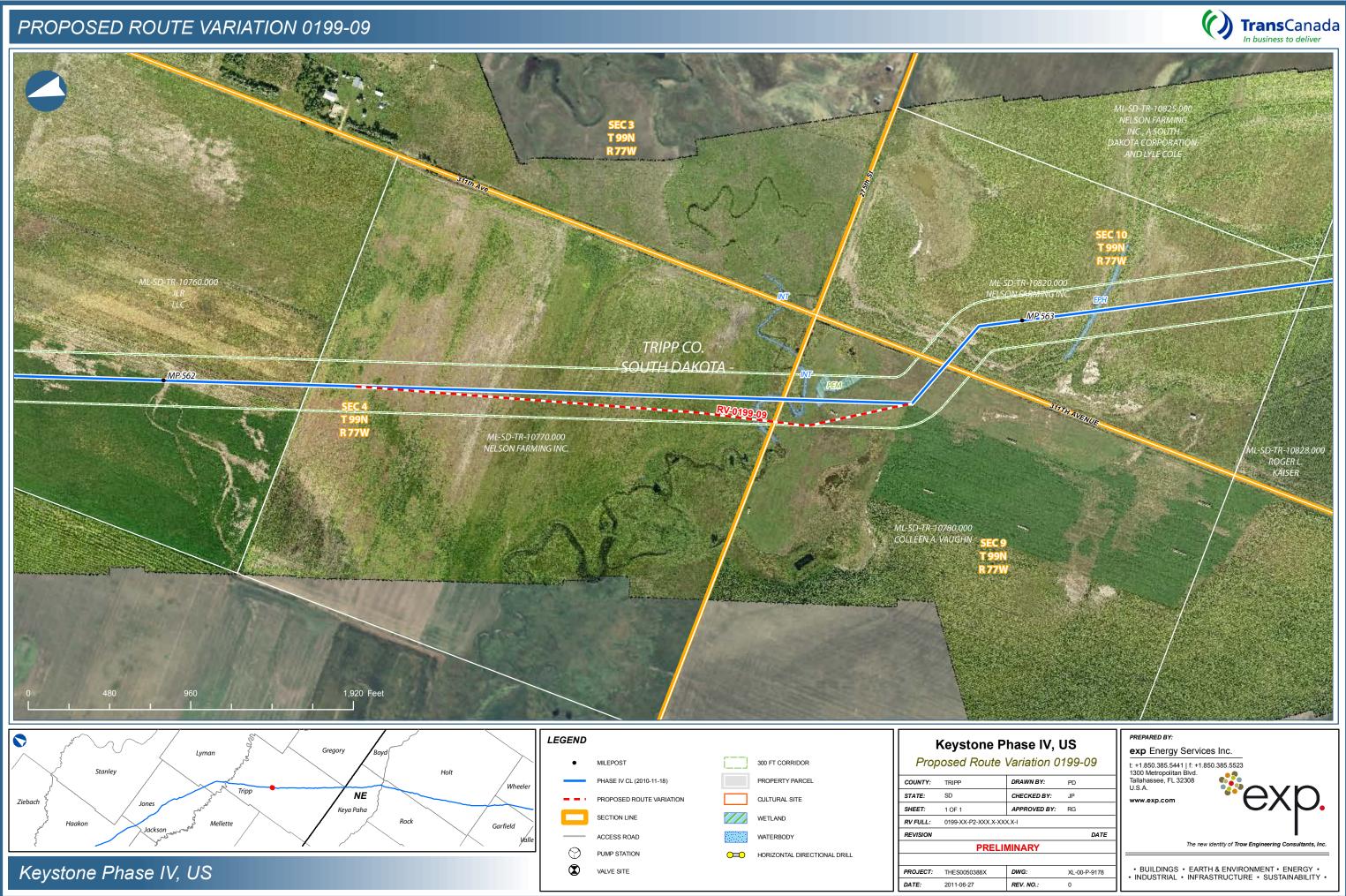
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	APPROVED BY:	RG
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