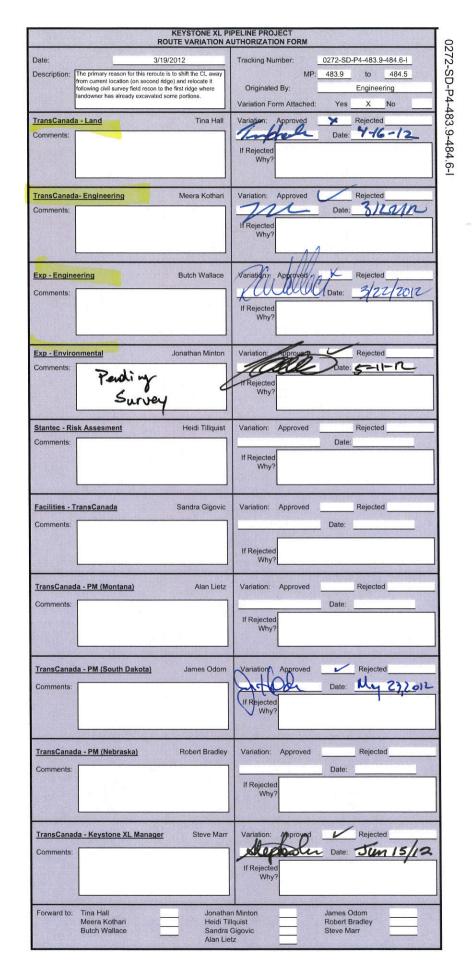
KEYSTONE XL PIPELINE PROJECT

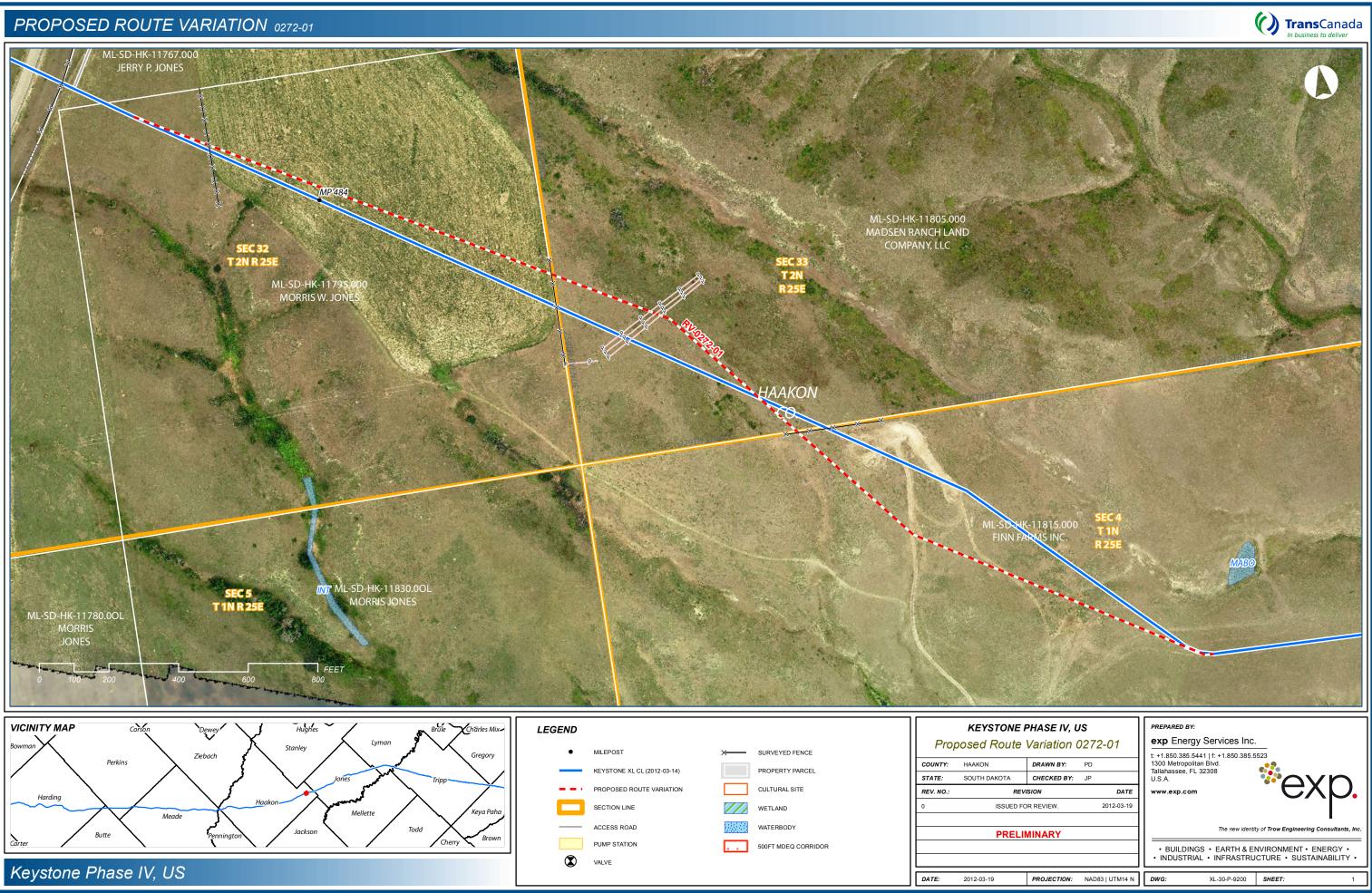
		PIPELINE	ROUTE VARIATION FO	DRM		
ARIATION TYPE:	Refinement:	Reroute:	x	Footprint:	De	esign:
	Centerline: X	Pump Station:		Valve Site:		CAR:
OCATION:	Sketch:			Pictures: s	ee Attached	
State:		unty: Haakon		Quad Map: N	-	
Township:		ange: 25E			See attached map sh	eet
Section:	04, 33	Centerline:	3/14/2012	MP:		to 484.55
FASON FOR ROU	FF VARIATION (Please	e include reason for route	e variation):			
he primary reason fo dge where landown	or this reroute is to shift er has already excavate dropping the CL ~50-7	the CL away from curre	nt location (on second ri			
ie reroute has beer	proposed based on a r	recommendation of Civil	Survey.			
ETAIL ROUTE VAR	RIATION (Please descri	be route variation in deta	ail):			
		viates ~3.5° southeast. for ~933 ft. The reroute				
ear MP 484.6.	xtends in this direction i	for ~933 ft. The refoute	turns southeast one last	time and extends for	~931 ft. before it rej	bins the current GL
	TS (Please include any	v additional impacts whic	h may affect cost: cross	ings induction bends	etc.):	
	· · ·	v additional impacts which	· · · · · ·		etc.):	
o New Landonwers	are impacted by this ro	/ additional impacts whic ute variation. The rerou	· · · · · ·		etc.):	
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land	ute variation. The rerou	· · · · · ·		etc.):	
lo New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land	ute variation. The rerou	· · · · · ·		etc.):	
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land	ute variation. The rerou	· · · · · ·		etc.):	
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.)	ute variation. The rerou	te impacts 3 existing tra	cts and Landowners.	etc.):	
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.)	ute variation. The rerou I Company, LLC)	te impacts 3 existing tra	cts and Landowners.	etc.):	
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o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin there an increase/c	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s	ute variation. The rerou I Company, LLC) second ridge and allow c	te impacts 3 existing tra	cts and Landowners. 18,000).	etc.):	No <u>X</u>
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin there an increase/or yes, please list:	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings?	te impacts 3 existing tra	cts and Landowners. 18,000).	etc.):	NoX
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Io New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin a there an increase/c yes, please list: COST ANALYSIS (co dditional length of si	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number bets incurred or saved froute realignment: ide-hill construction:	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings?	te impacts 3 existing tra onstruction savings (~\$ 33 -77	t	\$ <u>11,839.75</u> \$(1,463.00)	\$ 360/ft \$ 19/ft
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o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin there an increase/o yes, please list:	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number bests incurred or saved fr pute realignment ide-hill construction: retland construction: n (Road, RR):	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings?	te impacts 3 existing tra onstruction savings (~\$ 33 -77	ft. ft. ft. ft.	\$ 11,839.75 \$ (1,463.00) \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin there an increase/ yes, please list:	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number bets incurred or saved fr bute realignment ide-hill construction: retland construction: n (Road, RR): pipeline crossings:	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings?	te impacts 3 existing tra onstruction savings (~\$ 33 -77	ft. ft. ft. ft.	\$ 11,839.75 \$ (1,463.00) \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft
Io New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin there an increase/c yes, please list: COST ANALYSIS (co dditional length of si dditional length of si dditional length of si dditional length of si dditional length of si	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number bests incurred or saved fr pute realignment ide-hill construction: retland construction: n (Road, RR):	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings? rom the route variation)	te impacts 3 existing tra onstruction savings (~\$ 33 -77	ft. ft. ft. ft. ft. ft. ft. ft.	\$ 11,839.75 \$ (1,463.00) \$ - \$ - \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft \$ 30,000/EA
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin there an increase/ yes, please list:	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number bets incurred or saved fr bute realignment ide-hill construction: retland construction: n (Road, RR): pipeline crossings:	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings? rom the route variation)	te impacts 3 existing tra onstruction savings (~\$ 33 -77	t. ft. ft. ft. ft. EA	\$ 11,839.75 \$ (1,463.00) \$ - \$ - \$ - \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft \$ 30,000/EA \$ 185,000/EA
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin there an increase/ yes, please list:	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number bets incurred or saved fr bute realignment ide-hill construction: retland construction: n (Road, RR): pipeline crossings:	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings? rom the route variation) nots, etc.): 35 - 65' + 10' - 19'	te impacts 3 existing tra onstruction savings (~\$ 33 -77	t. ft. ft. ft. ft. ft. ft. ft. ft. ft. EA EA	\$ 11.839.75 \$ (1,463.00) \$ - \$ - \$ - \$ - \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft \$ 30,000/EA \$ 185,000/EA \$ 77,250/EA
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin : there an increase/c yes, please list:	are impacted by this ro 0 (Morris W. Jones) 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number basts incurred or saved fr bute realignment: ide-hill construction: retland construction: n (Road, RR): //pipeline crossings: r crossing (streams, por	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings? rom the route variation)	te impacts 3 existing tra onstruction savings (~\$ 33 -77	t. ft. ft. ft. ft. ft. ft. ft. ft. ft. EA EA	\$ 11,839.75 \$ (1,463.00) \$ - \$ - \$ - \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft \$ 30,000/EA \$ 185,000/EA
Io New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin s there an increase/c yes, please list: COST ANALYSIS (cc dditional length of si dditional length of si dditional length of w dditional lore length dditional foreign line dditional water body	are impacted by this ro 0 (Morris W. Jones) 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number sts incurred or saved fr pute realignment: ide-hill construction: retland construction: n (Road, RR): //pipeline crossings: r crossing (streams, por	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings? rom the route variation) nds, etc.): 35 - 65' + 10' - 19' Less than 10'	te impacts 3 existing tra onstruction savings (~\$ 33 -77	ft. ft. ft. ft. ft. ft. ft. ft.	\$ 11,839.75 \$ (1,463.00) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft \$ 30,000/EA \$ 185,000/EA \$ 185,000/EA \$ 32,500/EA
Io New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 Ihe reroute will minin the reroute will minin th	are impacted by this ro 0 (Morris W. Jones) 0 (Morris W. Jones) 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number basts incurred or saved fr pute realignment: ide-hill construction: retland construction: n (Road, RR): //pipeline crossings: / crossing (streams, por	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings? rom the route variation) nds, etc.): 35 - 65' + 10' - 19' Less than 10' Civil:	te impacts 3 existing tra onstruction savings (~\$ 33 -77 0.00	ft.	\$ 11,839.75 \$ (1,463.00) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft \$ 30,000/EA \$ 185,000/EA \$ 77,250/EA \$ 32,500/EA \$ 5,000/mile
Io New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 Ihe reroute will minin is there an increase/or yes, please list: COST ANALYSIS (co idditional length of si idditional length of si idditional length of wi idditional length of wi idditional lore length idditional foreign line idditional water body	are impacted by this ro 0 (Morris W. Jones) 0 (Madsen Ranch Land 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number stst incurred or saved fr bate realignment. ide-hill construction: retland construction: n (Road, RR): //pipeline crossings: r crossing (streams, por uired:	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings? rom the route variation) nds, etc.): 35 - 65' + 10' - 19' Less than 10' Civil: tural:	te impacts 3 existing tra onstruction savings (~\$ 33 -77 0.00 0.20	ts and Landowners.	\$ 11,839.75 \$ (1,463.00) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft \$ 30,000/EA \$ 185,000/EA \$ 77,250/EA \$ 32,500/EA \$ 5,000/mile \$ 2,500/mile
o New Landonwers IL-SD-HK-11795.00 IL-SD-HK-11805.00 IL-SD-HK-11815.00 he reroute will minin : there an increase/c yes, please list:	are impacted by this ro 0 (Morris W. Jones) 0 (Morris W. Jones) 0 (Finn Farms, Inc.) nize the impact on the s lecrease in the number basts incurred or saved fr pute realignment: ide-hill construction: retland construction: n (Road, RR): //pipeline crossings: / crossing (streams, por	ute variation. The rerou I Company, LLC) second ridge and allow c of crossings? rom the route variation) nds, etc.): 35 - 65' + 10' - 19' Less than 10' Civil: tural:	te impacts 3 existing tra onstruction savings (~\$ 33 -77 0.00	ts and Landowners.	\$ 11,839.75 \$ (1,463.00) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 360/ft \$ 19/ft \$ 195/ft \$ 540/ft \$ 30,000/EA \$ 185,000/EA \$ 77,250/EA \$ 32,500/EA \$ 32,500/EA \$ 5,000/mile

KEYSTONE XL PIPELINE PROJECT

4 LAND / TransCanada	Tina Hall		
a) Is a new landowner affected by the proposed variation?	Ye		No X
b) Is the affected landowner/tract a possible condemnation?	Ye		No
c) Does proposed route variation impact Tribal Lands?	Ye		No X
d) Does proposed route variation impact any Federal/State La	Inds? Ye	·S	No <u>X</u>
-If yes, name type (i.e. USFWS, BLM, etc.):			_
e) Is proposed realignment outside the easement/workspace?	Ye	s <u>X</u>	No
f) Is realignment proposed to satisfy landowner request?	Ye	s	No <u>X</u>
-If yes, name of landowner(s)/track number(s)			
			_
g) Has all the evaluation criteria been examined/provided for this	specific discipline? Ye	c	No
		·s	
If no, please explain why:			
5 ENGINEERING/CONSTRUCTION - TransCanada	Meera Kothari		
a) Maximum deviation perpendicular to proposed alignment:		<u>174</u> ft.	
b) Does variation (CL) (including workspaces) falls within 500	ft. MDEQ Corridor? Ye	s N/A	No
c) Has the centerline been staked for construction?	Ye	s	No X
d) Does route variation affect HDD crossing alignment?	Ye	s	No X
 e) Is realignment proposed for engineering/construction reasons? 	Ye		No
		·	
f) Will the route variation require the relocation of a pump station?	Ye		No <u>X</u>
g) Has all the evaluation criteria been examined/provided for this s	specific discipline? Ye	s	No
If no, please explain why:			
6 ENVIRONMENTAL / exp	Jonathan Minton		
a) Has the corridor been environmentally surveyed?	Ye	s X	No
b) Has the proposed variation been environmentally surveyed?	Ye	s	No X
c) Does proposed route variation impact Sage Grouse areas?			No X
d) Does route variation impact ABB areas?	Ye	·	No <u>X</u>
e) Was variation proposed to satisfy environmental issues?	Ye	s	No <u>X</u>
f) Was realignment proposed to satisfy agency request?	Ye	S	No <u>X</u>
-If yes, name of agency(s):			
g) Environmental features:			
g) Environmental features:			
g) Environmental features: Added (+):	Subtracted (-):	
):	
Added (+):			No
Added (+):			No
Added (+): Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this s			No
Added (+): Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this so If no, please explain why:	specific discipline? Ye		No
Added (+): Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this s If no, please explain why: 7 ENGINEERING / FACILITIES AND HYDRAULICS (if applicable)	specific discipline? Ye	s	
Added (+): Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this at the evaluation criteria been examined/provided for this at the no, please explain why: 7 ENGINEERING / FACILITIES AND HYDRAULICS (if applicable) a) Will the route variation require the relocation of a pump station?	specific discipline? Ye Sandra Gigovic Ye	s	No X
Added (+): Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this station or iteria been examined/provided for this station of the station	specific discipline? Ye Sandra Gigovic Ye Ye	s	No X
Added (+): Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this s If no, please explain why: 7 ENGINEERING / FACILITIES AND HYDRAULICS (if applicable) a) Will the route variation require the relocation of a pump station? b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or water crossing?	specific discipline? Ye Sandra Gigovic Ye Ye Ye	ss	No X No X No X
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KEYSTONE XL PIPELINE PROJECT





RV-0272-01 - Looking Northwest at minute 03:42.589 03/14/2012 CL (Blue line), Reroute (red line)



RV-0272-01 - Looking Southeast at minute 00:55.922 03/14/2012 CL (Blue line), Reroute (red line)

