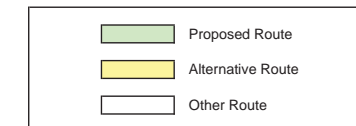




# Big Sandy Substation to Beaver Creek Substation

Category Ranks	Alternative - Segments			
	78 - K1, K5, K11, K12	79 - K1, K5, K9, K10, K12	80 - K1, K3, K4, K10, K12	81 - K2, K4, K10, K12
Engineering	1	2	4	3
Geology and Soils	4	2	1	2
Water Resources	1	2	2	4
Vegetation	1	1	1	1
Wildlife	3	1	2	3
Land Use	4	1	2	3
Cultural Resources	1	1	1	1
<b>Category Rank Total</b>	<b>15</b>	<b>10</b>	<b>13</b>	<b>17</b>
<b>Alternative Rank</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>4</b>



Proposed, alternative, and other routes are subject to change.

## Description & Results

The Big Sandy Substation to Beaver Creek Substation transmission line would be approximately 72 miles in length. The transmission line would begin at the existing Big Sandy Substation near Limon, Colorado, cross U.S. Highway 36 near the town of Last Chance, Colorado, and end at the existing Beaver Creek Substation near Interstate 76 in Brush, Colorado.

Route refinement moved segment K9 toward the northwest to avoid a school. Numerous small adjustments were made to respond to site-specific concerns identified during aerial surveillance.

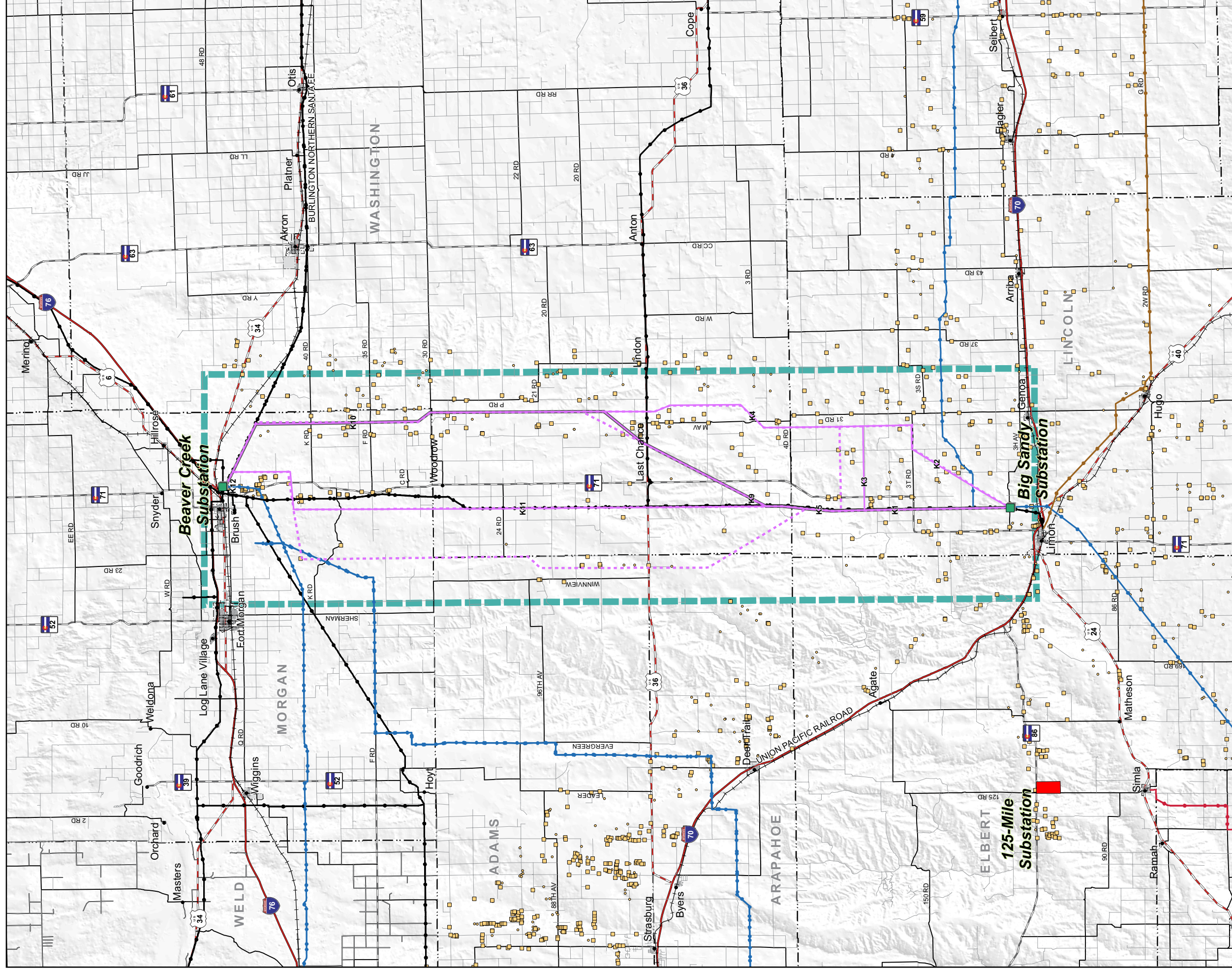
The scores and rankings among the four alternatives were closely aligned. Alternative 79 was identified as the proposed route to take advantage of an existing transmission corridor while minimizing effects to homes. The other routes were designated as alternatives.

## Siting Considerations

The proposed and alternative routes respond to scoping comments and additional ground and aerial surveillance. Several of the routes between substations were re-labeled for the sake of organization and consistency. The segments between Big Sandy Substation and Beaver Creek Substation were re-labeled from “J” to “K”.

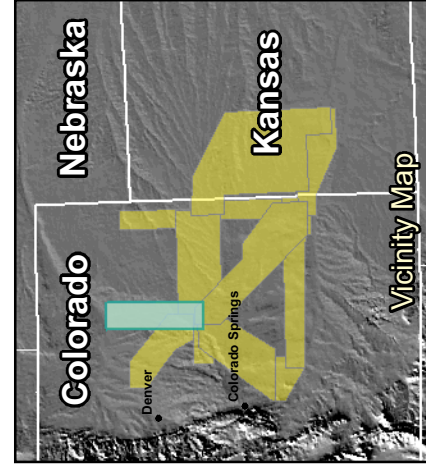
Route-specific comments from scoping included the following:

- Avoid J8 (very sandy and sensitive grassland)
- J9 runs over rough terrain
- Prefer J12 and J6
- Prefer J8 to follow Colorado Highway 71
- Consider moving J3 one mile to the north or south (to avoid residences)
- Prefer J9
- Move J1 to west of section line (adds to existing lines on property)
- Avoid J9 (sandy soils)
- Avoid western route (effects to shallow sand aquifer that supplies drinking water to Brush)
- Avoid J1 and J12



### Base Map

Legend	
<b>Substations</b>	<b>Transportation</b>
Existing Substation	Interstate Highway
Proposed Substation	State Highway
Siting Area	U.S. Highway
	Minor Road
	Major Road
	Railroad
<b>Analysis Area</b>	<b>Structures</b>
Big Sandy to Beaver Creek	Residence
	Other Structure
	<b>Existing Transmission Lines</b>
	115 kV Transmission Line
	230 kV Transmission Line
	345 kV Transmission Line
	69 kV Transmission Line
	<b>Routes</b>
	Proposed (345-kV)
	Alternative (345-kV)
	Previous (345-kV)



1:250,000 When printed at 22 x 34 Inches

Data Source:  
 ESRI (Cities, NED (Shaded Relief),  
 BTS (Highways), Structures (digitized from aerials),  
 National Atlas (States),  
 CDOT (CO Roads, Rail, City/County Boundaries),  
 Western, Xcel (Existing Transmission Lines)

Last Revised:  
 12/06/06

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# Eastern Plains Transmission Project

