

## Peavine Trail Road 39 Crossing Weighted Decision Matrix

	Category Total Weight	Item Weight	At-Grade		Overpass		Underpass At-Grade		Alternate Location Underpass		Underpass-Below Grade		Score Range
			Option 1		Option 2		Option 3		Option 4		Option 5		
			Score <sup>1</sup> (1-10)	Adjusted Weight <sup>2</sup>									
<b>Safety</b>	30												1=Least Safe 10=Most Safe
Trail Users-Peavine		30	7	21	9	27	9	27	9	27	4	12	
<b>Aesthetics</b>	5												1=Least Aesthetic 10=Most Aesthetic
Visual Impact		5	8	4	5	2.5	5	2.5	5	2.5	7	3.5	
<b>Usability and Convenience</b>	30												1=Less Usable 10=Most Usable (Current Condition)
Pedestrian		10	7	7	8	8	9	9	9	9	2 *	2	
Equestrian		7	7	4.9	8	5.6	5	3.5	5	3.5	4 *	2.8	
Bicycle		10	8	8	5	5	9	9	9	9	2 *	2	
Maintenance Vehicle		3	10	3	8	2.4	8	2.4	8	2.4	2 *	0.6	
<b>Cost</b>	25		\$46,225		\$353,215		\$383,906		\$422,477		\$597,811		1=High Cost 10=Low Cost
Materials and Installation		15	10	15	5	7.5	4	6	4	6	1	1.5	
Maintenance		4	10	4	8	3.2	6	2.4	6	2.4	1	0.4	
Energy Usage		2	9	1.8	9	1.8	7	1.4	7	1.4	4	0.8	
ROW Impact		4	10	4	10	4	2	0.8	1	0.4	10	4	
<b>Adjacent Property Owner Impact</b>	10												1=High Impact 10=Low Impact
Encroachment onto Property		5	10	5	10	5	3	1.5	1	0.5	10	5	
Usability/Access to Land		5	10	5	10	5	4	2	1	0.5	10	5	
<b>Total</b>	<b>100</b>			<b>82.7</b>		<b>77.0</b>		<b>67.5</b>		<b>64.6</b>		<b>39.6</b>	

(1) - Option's "score" is based on a 1-10 range

(2) - Option's "adjusted weight" is calculated by multiplying the "item weight" by the "score" divided by 10

(\*) - Option 5 scores in this area are lower than Option 3 and 4 due to the possibility of standing water and muddy conditions following a rain or snow event

