



FM 917 Alternative Analysis Matrix

FM 917 at BNSF Railroad Project Alternatives Analysis Evaluation Matrix							
Criteria			Preferred Alternative	Alternatives Previously Considered			
			Alt B Underpass	No Build Alt	Alt A Overpass	Alt C Overpass	Alt D Overpass
Item	Unit	PIF					
Mobility and Connectivity							
Delay at FM 917 and BNSF RR Crossing	* Legend		++	--	++	++	++
Delay at FM 917 and Main St Intersection (per cycle)	* Legend		++	--	++	++	++
Connectivity with existing side streets	* Legend		-	0	-	-	-
Emergency Responding Time	* Legend		++	--	++	++	++
Safety							
At-Grade Railroad Crossing on existing FM 917 (14th Street)	* Legend		+	--	+	+	+
Grade Separated Railroad Crossing of proposed FM 917	* Legend		++	--	++	++	++
Cost							
Est. Construction Cost (Not Including ROW Cost) 2015 dollars	\$M		13.0	0	9.0	10.5	9.4
Environmental and Economic Impacts							
Commerical/Industrial Land Use Impacts	Acres		0.03	0	0.03	0.54	1.01
Residential Impacts	Acres		6.95	0	6.95	11.63	5.51
Displacements	# of		13	0	11	13	15
Potential Noise Impacts	* Legend		--	0	--	--	--
Historic Resources	# of		0	0	0	0	0
Stream Crossing Impacts	* Legend		0	0	0	--	0
Visual Impacts	* Legend		0	0	--	--	--
Haz-mat sites within 300 feet	# of		1	0	1	0	1
Economic Impact to Existing Businesses - Weekday Impact	* Legend		+	0	+	+	--
Economic Impact to Existing Businesses - Weekend Impact	* Legend		+	0	+	+	--
Efficiency							
Alignment Length	Miles		0.62	0	0.62	0.83	0.61
Parcels/Property Owners Impacted	# of		23	0	23	37	31
Right-of-Way Acreage	Acres		6.98	0	6.98	12.17	6.52
Construction							
Construction Timeline	Months		(+/-) 24	0	(+/-) 18	(+/-) 20	(+/-) 18
Construction Difficulty/Disruption	* Legend		--	0	-	-	-
Level of Public Support							
	* Legend		++	--	+	-	+
Level of Agency Support							
	* Legend		++	--	+	0	-

Note: Data provided in this analysis is independent of other potential projects.

Public Input Factor (PIF)	
High	
Medium	
Low	

* Legend				
Some Negative Effect	Major Negative Effect	Some Negative Effect	Some Positive Effect	Major Positive Effect
-	--	-	+	++