FM 455 Feasibility Study Alternatives Evaluation Matrix From Dallas Parkway to Shady Brook Lane

ID: A00188517



ANALYSIS MATRIX					Good		Neutral		Poor	
	SCREENING/EVALUATION CATEGORY	No Build	Widening Existing Alignment	Alignment 1	Alignment 2	Alignment 3	Alignment 4	Alignment 5	Alignment 6	Alignment7
Purpose & Need	Improve East-West Mobility									
	Improve Safety									
Engineering	Total Segment Length along CL (miles)	12.4	12.4	8.6	8.8	8.9	8.8	8.7	8.7	8.8
	Number of Skewed Intersections: Cross Streets that intersect at a skew greater than 15 degrees	3	3	2	2	2	4	2	5	4
	Number of Major Utility Conflicts: Any location where we are on top of and run parallel to a utility line. (Not including gas lines)	0	16	2	1	1	1	2	2	2
	Gas Pipeline Crossings (count)	0	2	4	2	2	2	4	4	4
	Gas Line Relocation (feet)	0	0	8006	0	0	0	8006	8006	8006
	Curves with Reduced Design Speeds: Curves that do not meet 45 MPH Low Speed Criteria at Minimum	25	25	0	0	0	0	0	0	O
Displacements & Right-of-Way Requirements	Parcels Impacted	0	277	74	88	99	92	82	83	86
	Residential Displacements	0	32	1	0	2	2	3	3	3
	Business Displacements	0	19	1	0	0	0	1	1	1
	Other Displacements (includes barns, sheds, and outbuildings)	0	3	4	5	4	3	3	0	1
	Potential Damaged Buildings: Any existing structure that is within 40 feet of ROW	0	21	5	7	7	6	8	9	11
	Amount of New Right-of-Way (ROW) Required (acres)	0	73	127	138	149	131	143	127	128
Environmental & Natural Resources	Number of Rivers/Streams Crossed	12	12	14	14	14	13	14	12	12
	Protected Lands/Parks Along Corridor	2	2	0	0	0	O	0	0	0
	Prime Farmland Present	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Number of Hazardous Materials Sites	0	0	0	0	0	0	0	0	0
	Oil and Gas Wells (count)	0	0	0	0	0	0	0	0	0
	NWI Wetland Features (count)	0	7	6	9	12	12	8	9	8
	Equestrian Facility with Potential Impacts (count): Legacy Equestrian Center and Lancaster Hill Stables	0	0	0	0	1	2	1	2	2
	Floodplains within Proposed Right-of-Way (ROW) in acres	0	13	26	24	26	18	24	20	20
nunity Impacts & Cultural Resources	Future Development Impacts: All developments that are next to or on top of the ROW	0	4	6	5	5	5	6	6	7
	Presence of Environmental Justice Population (Yes/No)	No	No	No	No	No	No	No	No	No
	Number of Adjacent Places Worship	1	1	0	0	0	0	0	0	0
	Impacts to Ponds	0	3	3	3	4	3	4	2	2
	Number of Adjacent Public School Property(ies)	1	1	2	0	0	0	2	2	2
Comm	Archeological Sites, Cemeteries, and Historic Properties	2	2	0	0	0	0	0	0	0
	Estimated Total Project Costs in Millions (M)	\$0	\$174	\$121	\$123	\$124	\$124	\$121	\$121	\$123
and	Adherence to Collin County Thoroughfare Plan									
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lder, Ag ublic In	City of Celina									

Collin County