

Alternatives Matrix

FM 455 Feasibility Study - Preliminary Alternative Evaluation Matrix							
From Shady Brook Lane to US 175							
Project ID: A00210773							
Screening/Evaluation Category		No Build	Green Alternative	Orange Alternative	Cyan Alternative	Purple Alternative	Maroon Alternative
Purpose and Need	Improve East-West Mobility	○	●	●	●	●	●
	Improve Safety	○	●	●	●	●	●
Right of Way, Land Use, and Development Impacts	Parcels Impacted (count)	0	71	74	85	73	77
	Residential Displacements (count)	0	1	0	0	0	1
	Other Displacement including Barns, Sheds, and Outbuildings (count)	0	2	0	0	0	1
	Amount of New Right-of-Way Required (acres)	0	97.4	98.0	96.4	98.4	94.3
Environmental and Natural Resources	Farmland (acres)	0	48	58	61	53	50
	Streams within the Proposed Right-of-Way (feet)	0	2009	1805	1977	2509	1818
	Wetlands within the Proposed Right-of-Way (acres)	0	2	3	2	3	3
	NRCS Ponds with the Proposed Right-of-Way (count)	0	0	0	0	0	0
	Floodplains within the Proposed Right-of-Way (acres)	0	20	20	20	20	21
Public Input	Public Input	To be determined based on input from this public meeting					
	Stakeholder Input						
Engineering and Constructability	Total Segment Length along Centerline (miles)	0	6.5	6.7	6.7	6.7	6.5
	Anticipated Bridge Length (miles)	0	1.05	1.02	1.00	1.03	1.05
	Intersection Realignment (count)	0	4	6	4	5	5
	Adherence to City of Anna Throughfare Plan	○	●	●	●	●	●
	Adherence to Collin County Throughfare Plan	○	○	○	○	○	○
	Total Length of existing TxDOT facilities to be owned/maintained by the Local Government (miles)	0	5.8	5.3	5.4	5.7	5.8
Cost	Estimated Construction Cost in Millions	\$0 M	\$180.6M	\$180.4 M	\$178.6 M	\$181.3 M	\$180.6 M

- Good
- Neutral
- Poor