

PROPOSED CONCEPTUAL ROUTE ALTERNATIVES EVALUATION MATRIX

	Study Parameter	Unit of Measurement	Alternative A (Green)	Alternative B (Orange)	Alternative C (Purple)	Alternative D (Yellow)	Alternative E (White)
Engineering Considerations	Meets study objectives	Yes/No	Yes	Yes	Yes	Yes	Yes
	Length	Miles	5.5	1.6	3.7	4.5	5.3
	Proposed ROW Requirements	Acres (ac)	268	19.5	99	142.4	142.1
	Estimated Construction Cost	\$ (Millions)	\$70M	\$25M	\$40M	\$45M	\$60M
	River Migration/ Bank Stability at Bridge Crossing	Highly Unstable/ Moderately Stable/ Stable/ Stable	Moderately Stable	Highly Unstable	Stable	Stable	Stable
	Stream Mitigation Risk	Low/ Medium/ High	Medium ⁽¹⁾	High ⁽²⁾	Low	Low	Low
	Utility and Drainage Easement Crossings	Number (No.)	1	0	0	1	1
	Transmission/ Pipeline Crossings	No.	1	0	1	1	1
Community Impacts	Parcels Impacted	No.	27	11	20	13	19
	Potential Impacted Properties	No.	0	3 (residential)	0	0	1 (residential)
	Potential Hazardous Materials Sites (Recorded)	No.	0	0	1	1	1
Cultural Resources	Historic Resources ⁽³⁾	No.	1	1	1	1	1
	Probability to encounter Archeological Sites	Low/ Medium/ High	High	High	High	High	High
Natural Resources	Threatened/Endangered Species Potential Habitat	Low/ Medium/ High	Medium	Medium	Medium	Medium	Medium
	100-Year Floodplains	ac	107	1	22	26	47
	National Wetlands Inventory Features	ac/ LF	72.3/ 7,702	3.5/ 1,472	26.1/ 5,346	30.6/ 5,539	11.9/ 2,303
	Potential Impacts to Louisiana Natural & Scenic River (Pearl Creek)	Yes/ No	Yes	No	No	No	No

The No-Build Alternative does not meet the goals of the study, and therefore was not included in this table. However, it will be carried forward to the NEPA process and will be evaluated as a baseline comparison for the proposed build alternatives.

Note:

- 1) Proposed alignment crosses Sabine River at location where historically the river banks are moderately stable
- 2) Proposed alignment crosses Sabine River at location where historically the river banks are unstable
- 3) The Burr's Ferry Bridge is listed on the National Register of Historic Places