



S.R. 29 PD&E Study

From North of S.R. 82 to South of C.R. 80A

Financial Project ID: 417878 2 22 01



EVALUATION MATRIX

Evaluation Criteria	No-Build Alternative	Construct Four New Travel Lanes				Construct Two New Lanes and Use the Existing Two Lanes				
		Center Alignment	West Alignment	East Alignment	Optimized Alignment	West Alignment	East Alignment	West Alignment	East Alignment	Optimized Alignment
		Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8	Alternative 9
Business Impacts										
Number of business relocations	0	2	7	12	1	7	12	7	12	4
Residential Impacts										
Number of residential relocations	0	2	4	11	2	4	17	4	17	4
Environmental Impacts										
Archaeological/Historical sites (potential)	None	Low	Low	Low	Low	Low	Low	Low	Low	Low
Section 4(f) (potential)	None	Low	Low	Low	Low	Low	Low	Low	Low	Low
Noise (potential)	None	Low	Low	Low	Low	Low	Low	Low	Low	Low
Wetland (acres)	0	15.5	15.9	16.1	17.2	16.9	18.3	17.1	18.3	17.1
Floodplains (acres)	0	156.9	162.1	151.6	162.8	159.9	149.5	166.3	132.7	166.0
Threatened and endangered species (potential)	None	High	High	High	High	High	High	High	High	High
Petroleum and hazardous material sites (high / medium)	None	3 / 4	2 / 3	3 / 2	1 / 2	2 / 3	3 / 2	2 / 3	3 / 2	1 / 2
Right-of-Way Impacts										
Right-of-way to be acquired for roadway (acres)	0	90.9	91.4	91.0	91.6	119.6	104.3	126.8	111.3	126.0
Right-of-way to be acquired for stormwater facilities (acres)	0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0
Estimated Total Project Costs (2008 Cost)										
Wetland mitigation (\$101,500 per acre)	\$0	\$1,573,250	\$1,613,850	\$1,634,150	\$1,745,800	\$1,715,350	\$1,857,450	\$1,735,650	\$1,857,450	\$1,735,650
Right-of-way acquisition for roadway	\$0	\$26,981,000	\$17,094,000	\$28,497,000	\$15,852,000	\$17,011,000	\$30,335,000	\$17,806,000	\$32,309,000	\$17,797,000
Right-of-way acquisition for stormwater facilities	\$0	\$31,502,000	\$32,097,000	\$30,885,000	\$32,177,000	\$31,841,000	\$30,651,000	\$32,579,000	\$28,715,000	\$32,542,000
Construction cost for roadway	\$0	\$96,554,000	\$95,578,000	\$92,265,000	\$96,637,000	\$82,102,000	\$84,288,000	\$83,314,000	\$85,630,000	\$83,644,000
Construction cost for stormwater facilities	\$0	\$38,836,000	\$39,195,000	\$38,465,000	\$39,243,000	\$39,040,000	\$38,323,000	\$39,485,000	\$37,157,000	\$39,463,000
Total Construction Cost	\$0	\$195,446,250	\$185,577,850	\$191,746,150	\$185,654,800	\$171,709,350	\$185,454,450	\$174,919,650	\$185,668,450	\$175,181,650
Design (10% of Total Construction Cost)	\$0	\$19,544,625	\$18,557,785	\$19,174,615	\$18,565,480	\$17,170,935	\$18,545,445	\$17,491,965	\$18,566,845	\$17,518,165
Construction Engineering & Inspection (10% of Total Construction Cost)	\$0	\$19,544,625	\$18,557,785	\$19,174,615	\$18,565,480	\$17,170,935	\$18,545,445	\$17,491,965	\$18,566,845	\$17,518,165
Preliminary Estimate of Total Project Cost	\$0	\$234,535,500	\$222,693,420	\$230,095,380	\$222,785,760	\$206,051,220	\$222,545,340	\$209,903,580	\$222,802,140	\$210,217,980