Appendix N

Four Lane Mitigation Travel Time Comparison - Ferrini Ranch Subdivision

							Four Lanes, No Project, No Alternate Access	Four Lanes, with Project, No Alternate Access		Four Lanes, with Alternative Project, No Alternate Access		Four Lanes, with Alternative Project, With Alternate Access	
	Existing AM Peak Hour Volumes			**Background + Project AM Peak Hour Volumes**			Approximate Reduction in Travel Time with Freeway Extension (seconds)	Approximate Increase in Travel Time with **Project** Over Entire Corridor (seconds)	Net Increase/Reduction in Travel Time with Freeway Extension Over Entire Corridor (seconds)	Approximate Increase in Travel Time with **Alternative Project Site Plan** Over Entire Corridor (seconds)	Net Increase/Reduction in Travel Time with Freeway Extension Over Entire Corridor (seconds)	Approximate Increase in Travel Time with **Alternative Project Site Plan** and **Alternate Access** Over Entire Corridor (seconds)	Net Increase/Reduction in Travel Time with Freeway Extension Over Entire Corridor (seconds)
	Existing 2-Lane Rural Highway			Proposed 4-Lane Freeway									
	Speed		Travel Time	Speed		Travel Time							
EB	47 68.9	mi/hr ft/s	92	65 95.3	mi/hr ft/s	66	-26	18	-8	10	-16	19	-7
WB	8 11.7	mi/hr ft/s	540	13.7 20.1	mi/hr ft/s	315	-225	53	-172	46	-179	55	-170

	Existing PM Peak Hour Volumes			**Background + Project PM Peak Hour Volumes**			Approximate Reduction in Travel Time with Freeway Extension (seconds)	Approximate Increase in Travel Time with **Project** Over Entire Corridor (seconds)	Net Increase/Reduction in Travel Time with Freeway Extension Over Entire Corridor (seconds)	Approximate Increase in Travel Time with **Alternative Project Site Plan** Over Entire Corridor (seconds)	Net Increase/Reduction in Travel Time with Freeway Extension Over Entire Corridor (seconds)	Approximate Increase in Travel Time with **Alternative Project Site Plan** Over Entire Corridor (seconds)	Net Increase/Reduction in Travel Time with Freeway Extension Over Entire Corridor (seconds)
	Existing 2-Lane Rural Highway			Proposed 4-Lane Freeway									
	Speed		Travel Time	Speed		Travel Time							
EB	53 77.7	mi/hr ft/s	82	65 95.3	mi/hr ft/s	66	-16	56	40	48	32	59	43
WB	51 74.8	mi/hr ft/s	85	65 95.3	mi/hr ft/s	66	-19	51	32	35	16	45	26

Total	**-286** (286 second reduction over entire corridor)	**178**	**-108** (108 second reduction over entire corridor)	**139**	**-147** (147 second reduction over entire corridor)	**177**	**-109** (109 second reduction over entire corridor)
Project Percent		**62%**		**49%**		**62%**	

Synchro Arterial Travel Time Results

	Back AM	B+P AM	Difference
EB	1081.8	1099.7	17.9
WB	2049.8	2103.1	53.3

Synchro Arterial Travel Time Results

	Back AM	B+Alt. P AM	Difference
EB	1081.8	1091.6	9.8
WB	2049.8	2095.3	45.5

	Back PM	B+P PM	Difference
EB	1792.9	1848.4	55.5
WB	2020.5	2071.9	51.4

	Back PM	B+Alt. P PM	Difference
EB	1792.9	1841.0	48.1
WB	2020.5	2055.8	35.3

Notes:
1. All travel times are in seconds.
2. Segment length = 1.2 miles (6,336 feet).
3. Segment extends from existing 4-lane section (adjacent to Toro Park) to west end of Toro Park Estates (see attached graphic).
4. Increases in travel times with project are based on "Background" vs. "Background + Project" AM and PM peak hour volumes in Synchro arterial analysis reports.

Ruler
Line
Path
Length:
1.15
Miles
Mouse Navigation
Clear
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