

Summary of Traffic Operations Analysis Vissim (Version 10)

Metric		Units	Existing Volumes						Year 2040 Volumes					
			No Build			Build			No Build			Build		
			AM	Midday	PM	AM	Midday	PM	AM	Midday	PM	AM	Midday	PM
Total Vehicles		veh	2,626	1,696	3,101	2,614	1,693	3,090	3,448	2,218	4,048	3,431	2,207	4,022
Average Vehicle Delay		sec	29.1	21.2	35.1	3.0	2.0	3.7	36.9	24.7	44.3	4.6	2.6	7.2
Average Speed		mph	42.7	45.9	40.9	52.8	53.4	52.5	39.6	44.1	37.7	51.5	52.6	50.1
Total Distance		mi	3,578	2,323	4,247	3,564	2,307	4,245	4,624	2,986	5,468	4,614	2,971	5,459
Total Travel Time		hrs	83.8	50.6	104.0	67.5	43.2	80.8	116.7	67.8	145.3	89.7	56.5	108.9
Total Network Delay		hrs	21.2	10.0	30.3	2.2	0.9	3.2	35.4	15.2	49.8	4.3	1.6	8.0
Intersection Delay	West Ramps	sec	26.6	19.2	32.6	1.9	1.0	1.6	33.7	22.5	41.2	2.7	1.3	2.5
	East Ramps	sec				2.5	1.8	4.0				4.4	2.5	9.9
	Fremont	sec	3.3	2.3	2.7				5.2	2.6	4.2			

Note: The table above summarizes the results of traffic operations analysis conducted using Vissim (version 10). These values are used in analysis presented in Attachment A - BCA Workbook. Additional analysis used to extrapolate this data to an annual total are described in the BCA Memorandum and are shown in the BCA Workbook. The value of time, vehicle operating costs, emissions costs, and cost of crashes were obtained from the Benefit Cost Analysis Guidance for Discretionary Grant Programs, dated December 2023.