

BENEFITS TO VARIOUS MODES



BENEFITS TO PEDESTRIANS:

The Walk timing and Flash Don't Walk clearance-timing parameters were reviewed and updated at eight study intersections to provide adequate time for children and seniors to safely cross the study intersections to accommodate the new walking speed of 3.5 feet/second, as specified in 2012 California MUTCD standards.



BENEFITS TO BICYCLISTS: To improve safety for bicyclists along the corridor, the minimum green intervals were reviewed; and changes were made at 11 study intersections.



BENEFITS TO TRAFFIC SAFETY:

The yellow clearance timing parameters were updated at one project intersection based on the posted speed limits along the study corridors. No changes were made to the All Red clearance timing parameters.

Project Costs

Consultant Costs (Basic Services/Plans)	\$70,800
Consultant Costs (Additional Plans, TSP, IM Flush Plans, etc.)	\$6,500
Other Project Costs (GPS Clocks, Communications equipment, etc.)	\$3,960
Agency Staff Costs (Estimate)	\$17,700
Total Costs	\$98,960

Project Benefits

Measures	First Year		Lifetime (5 Years)	
	Savings	Monetized Savings	Savings	Monetized Savings
Travel Time Savings	84,074 hrs.	\$1,640,735	225,533 hrs.	\$4,401,363
Fuel Consumption Savings	5,681 gal.	\$21,923	15,239 gal.	\$58,810
ROG Emissions Reduction	0.023 tons	\$28	0.061 tons	\$76
NOx Emissions Reduction	0.014 tons	\$244	0.036 tons	\$656
PM2.5 Emissions Reduction	0.001 tons	\$235	0.002 tons	\$630
CO Emissions Reduction	0.154 tons	\$12	0.412 tons	\$32
Total Lifetime Benefits				\$4,461,567

Overall Project Benefits

Overall Project Benefits	Auto
Average Decrease in Travel Time	35%
Average Speed Increase	62%
Average Fuel Savings	24%
Average Reduction in Signal Delay	57%
Average Reduction in Number of Stops	45%
Overall Benefit-Cost Ratio	48:1

PROJECT BENEFITS SUMMARY



Average Reduction in Auto Signal Delay: 57%

Average Reduction in Number of Stops: 45%

Auto Fuel Consumption Savings: 24% or 15,239 gallons

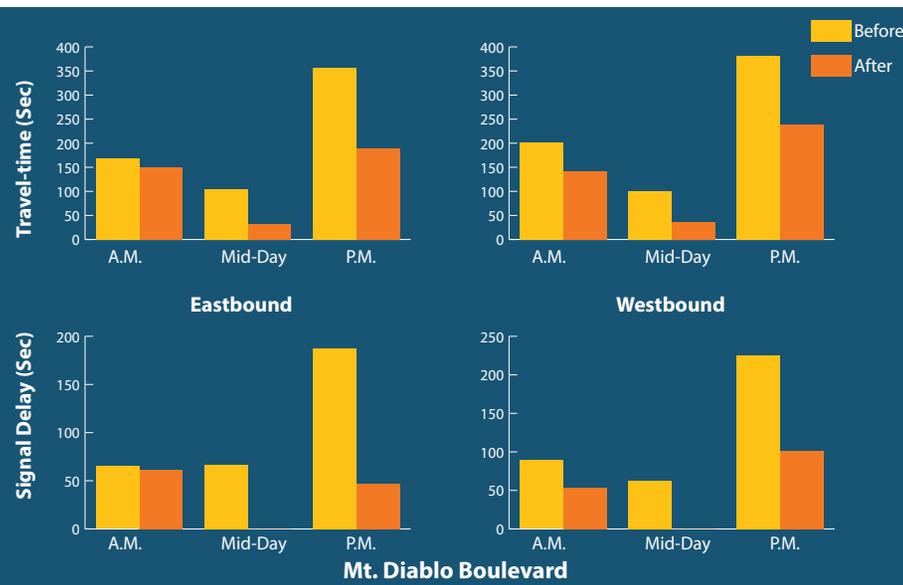


Total Emissions Reduced (ROG, NOx, PM2.5, CO): 0.51 tons

Auto Travel Time Savings: 35% or 225,533 hours



Overall Project Benefit-cost Ratio = 48:1



For more info, please contact:

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