



City of Pomona

Public Works Department

Final Report

July 30, 2018

ML16020A

2015 MSRC Clean Transportation Grant



Acknowledgements

The City of Pomona personnel involved with the project include Meg McWade - Public Works Director, Rene Guerrero - City Engineer, Ron Chan - Senior Civil Engineer, Robert Lloyd - Traffic Operations Crew Chief, and Neal Valencia - Signal and Lighting Technician.

The City also acknowledges the professional engineering services of Iteris and RKA Consulting Group.

This report was submitted in fulfillment of Contract number ML16020A and Traffic Operations Communication Upgrade by City of Pomona under partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of July 18, 2018.

Project Description and Work Performed

The project upgraded video detection systems to include bicycle detection. The project is located on Garey Avenue between Mission Boulevard and County Road with twelve traffic signals. Two of the signalized intersections (Garey & Phillips and Garey & Lexington) already have video detection upgrade to enable bicycle detection. The remaining ten signalized intersections do not have the capability to do so. This project replaced the older detection system (either Loops or older video detection system that cannot detect bicycles) with new video detection systems that can detect bicycles. Minor infrastructure work was completed, such as new conduit crossings, cable rewiring and/or controller cabinet replacements, to accommodate new detection system. In addition, updated synchronize traffic signal timings were implemented along this corridor to help further reduce emissions.

Problems Encountered

Overall the project did not encounter any major concerns or problems. There were inconveniences during the construction phase with lane closures, and flashing signals. City addressed this concern in advance by keeping the public inform of the construction activity with advance message signs before and during the construction. We did encounter few minor unforeseen construction problems along the way such as buried foundations, conflicting prints, incorrect conduit layouts. But these are typical unforeseen issues during any construction projects.

Emissions Benefits

The purpose of this project is to detect bicycles with the new video detection system. These video detections also provided much needed upgrades to allow the traffic signals to be completely fully-actuated rather than pre-set times. If bicycles or vehicles are not detected, that phase will not be served. The updated synchronize traffic signal timing helps the flow of traffic and reduce congestions during peak hours. This eliminates the need to stop at a red light without any cross traffic. By eliminating the need to slow or stop, it helps reduce vehicle emissions.

Photographs and Outreach

Media outreach includes in the [City of Pomona Public Works Quarterly Newsletter \(Summer 2016\)](#). Below is a snapshot to the article:

City Awarded \$440,00 Grant

GRANT FOR \$440,000 TO SUPPORT ACTIVE TRANSPORTATION PROJECT ALONG GAREY AVENUE TO PROVIDE GREENHOUSE GAS REDUCTIONS TO THE ENVIRONMENT AND COMMUNITY

The South Coast Air Quality Management District (SCAQMD), through the Clean Transportation Mobile Source Air Pollution Reduction Review Committee (MSRC), recently awarded a grant in the amount of \$440,000 to the City of Pomona to support Active Transportation Projects to incentivize transportation through alternative means, such as bicycling, to provide greenhouse gas reductions to the environment and community. Projects to be completed with this grant include bicycle infrastructure and related programs such as bicycle detection that allows for bicyclists to be detected and have priority at intersections without impacting traffic flow. The project will be located on Garey Avenue, between Mission Boulevard and County Road, with 12 signalized intersections. The grant award is contingent upon a total of \$440,000 in matching funds, with the City's matching contribution coming from AB2766; grant must be used within 22 months from date of execution of the grant. **Any questions on this project, please call Engineering at: 909-620-2281.**

Summer 2016 Page 3

There is also a video of the before and after travel time study comparison along the project corridor posted on City Website. The video shows the decrease in travel time which directly helps reduce vehicle emissions. http://www.ci.pomona.ca.us/mm/pubwrks/engineering/pomona_garey_ave_tss_project.swf

Below are the photos of the completed project:



Before and After Bicycle Counts

		Before	After
Garey & Mission	7am - 9am	24	24
	11am - 1pm	21	25
	4pm - 6pm	74	45
Garey & Seventh	7am - 9am	28	19
	11am - 1pm	21	20
	4pm - 6pm	83	29
Garey & Ninth	7am - 9am	29	37
	11am - 1pm	12	31
	4pm - 6pm	88	44
Garey & Eleventh	7am - 9am	14	22
	11am - 1pm	12	38
	4pm - 6pm	39	39
Garey & Grand	7am - 9am	20	21
	11am - 1pm	35	35
	4pm - 6pm	75	25
Garey & Phillips	7am - 9am	20	26
	11am - 1pm	18	24
	4pm - 6pm	51	30
Garey & Beaver	7am - 9am	14	18
	11am - 1pm	11	34
	4pm - 6pm	40	27
Garey & Franklin	7am - 9am	21	27
	11am - 1pm	13	36
	4pm - 6pm	57	21
Garey & Lexington	7am - 9am	26	40
	11am - 1pm	16	36
	4pm - 6pm	60	33
Garey & Rio Rancho	7am - 9am	20	15
	11am - 1pm	21	20
	4pm - 6pm	66	17
Garey & Olive	7am - 9am	5	8
	11am - 1pm	7	9
	4pm - 6pm	26	9
Garey & County	7am - 9am	5	2
	11am - 1pm	4	9
	4pm - 6pm	13	7

Summary and Conclusion

Since the adoption of the City’s Active Transportation Plan in 2014, staff actively seeks grants and funds to improve the bicycle and pedestrian infrastructure citywide. The City is thankful to be a recipient of the MSRC funds. This grant helped upgraded underground conduits, new wiring, controllers, updated signal

timings and video detection systems on one of the main streets in the City. These improvements help relieve congestion along the corridor with synchronize signal timings and upgraded video detection systems. The congestion relieve will reduce greenhouse gas emissions on a daily basis. Any increase of bicycle ridership will only further reduce greenhouse gas emissions and add to the benefits of this project. Various City staff noticed the reduced red light stopping along this corridor which helps validate the ease of congestion. The bicycle detections allow the traffic signal to detect and serve bicyclist at intersections. This project would not have been possible without the support and assistance of the MSRC. City will continue the efforts in air pollution reduction with on-going projects and look forward to working with MSRC on other projects.