

Project: 834520 - Tasman-Java LRT Corridor Signal Timing

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Dennis Ng
Year Identified:	2019	Project Phase:	Planning	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	C90 - Public Works	Fund - Sub-Fund:	385-100 - Capital Projects - General Fund Assets

Project Description/Scope/Purpose:

The project goal is to reduce vehicular delays and queues, pollutant emissions, collisions, improve traffic flow, and facilitate safe pedestrians, bike and Americans with Disabilities Act (ADA) travel along the corridor, especially at controlled locations. The project scope will include data collection, analysis, computer modelling, and new traffic signal timing plans (splits and offsets) for AM Peak, Midday Peak, PM Peak, and Weekend Peaks. Pedestrian (per ADA requirement), and bike crossing times at traffic signals will also be updated. Also as a part of this project Advance Traffic Management System (ATMS) and other Intelligent Transportation Systems technology to collect data may be deployed to maintain progression and optimized traffic signal timings along the corridor based on real time traffic conditions. This project will complete work necessary to re-time and deploy of new traffic signal timing plans along the LRT-Tasman-Java Corridor.

Project Evaluation and Analysis:

This corridor was last retimed in 2014. Per industry standard, traffic signal timings should be updated every two to four years. This is important to meet the current traffic demand volume, and reduce congestion and travel times.

Fiscal Impact:

This project is fully funded by Santa Clara Valley Transportation Authority (VTA) Transportation Fund for Clean Air (TFCA) grant funds in the amount of \$85,887. No matching funds are required.

Funding Sources:

Santa Clara Valley Transportation Authority (VTA) Transportation Fund for Clean Air (TFCA) Grant

Plans and Goals:

LT - Land Use and Transportation - LT-3: An Effective Multimodal Transportation System

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	-	-	-	-
2019 - 20	85,887	85,887	-	-
2020 - 21	-	-	-	-
2021 - 22	-	-	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	85,887	85,887	-	-

Project: 834530 - Maude Avenue Corridor Signal Timing

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Dennis Ng
Year Identified:	2019	Project Phase:	Planning	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	C90 - Public Works	Fund - Sub-Fund:	385-100 - Capital Projects - General Fund Assets

Project Description/Scope/Purpose:

The project goal is to reduce vehicular delays and queues, pollutant emissions, collisions, improve traffic flow, and facilitate safe pedestrians, bike and Americans with Disabilities Act (ADA) travel along the corridor, especially at controlled locations. The project scope will include data collection, analysis, computer modelling, and new traffic signal timing plans (splits and offsets) for AM Peak, Midday Peak, PM Peak, and Weekend Peaks. Pedestrian (per ADA requirement), and bike crossing times at traffic signals will also be updated. Also as a part of this project Advance Traffic Management System (ATMS) and other Intelligent Transportation Systems technology to collect data may be deployed to maintain progression and optimized traffic signal timings along the corridor based on real time traffic conditions. This project will complete work necessary to re-time and deploy of new traffic signal timing plans along Maude Corridor.

Project Evaluation and Analysis:

This corridor was last retimed in 2014. Per industry standard, traffic signal timings should be updated every two to four years. This is important to meet the current traffic demand volume, and reduce congestion and travel times.

Fiscal Impact:

This project is fully funded by Santa Clara Valley Transportation Authority (VTA) Transportation Fund for Clean Air (TFCA) grant funds in the amount of \$33,417. No matching funds are required.

Funding Sources:

Santa Clara Valley Transportation Authority (VTA) Transportation Fund for Clean Air (TFCA) Grant

Plans and Goals:

LT - Land Use and Transportation - LT-3: An Effective Multimodal Transportation System

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	-	-	-	-
2019 - 20	33,417	33,417	-	-
2020 - 21	-	-	-	-
2021 - 22	-	-	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	33,417	33,417	-	-

Project: 834540 - Mathilda-Sunnyvale-Saratoga Corridor Signal Timing

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Dennis Ng
Year Identified:	2019	Project Phase:	Planning	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	C90 - Public Works	Fund - Sub-Fund:	385-100 - Capital Projects - General Fund Assets

Project Description/Scope/Purpose:

The project goal is to reduce vehicular delays and queues, pollutant emissions, collisions, improve traffic flow, and facilitate safe pedestrians, bike and ADA travel along the corridor, especially at controlled locations. The project scope will include data collection, analysis, computer modelling, and new traffic signal timing plans (splits and offsets) for AM Peak, Midday Peak, PM Peak, and Weekend Peaks. Pedestrian (per ADA requirement), and bike crossing times at traffic signals will also be updated. Also as a part of this project Advance Traffic Management System (ATMS) and other Intelligent Transportation Systems technology to collect data may be deployed to maintain progression and optimized traffic signal timings along the corridor based on real time traffic conditions. This project will complete work necessary to re-time and deploy of new traffic signal timing plans along Mathilda/Sunnyvale-Saratoga Corridor.

Project Evaluation and Analysis:

This corridor was last retimed in 2014. Per industry standard, traffic signal timings should be updated every two to four years. This is important to meet the current traffic demand volume, and reduce congestion and travel times.

Fiscal Impact:

This project is fully funded by Santa Clara Valley Transportation Authority (VTA) Transportation Fund for Clean Air (TFCA) grant funds in the amount of \$191,927. No matching funds are required.

Funding Sources:

Santa Clara Valley Transportation Authority (VTA) Transportation Fund for Clean Air (TFCA) Grant

Plans and Goals:

LT - Land Use and Transportation - LT-3: An Effective Multimodal Transportation System

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	-	-	-	-
2019 - 20	191,927	191,927	-	-
2020 - 21	-	-	-	-
2021 - 22	-	-	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	191,927	191,927	-	-

Project: 835060 - Duane Avenue Traffic Signals Retiming

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Carmen Talavera
Year Identified:	2020	Project Phase:	Planning	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	C90 - Public Works	Fund - Sub-Fund:	385-100 - Capital Projects - General Fund Assets

Project Description/Scope/Purpose:

The project goal is to reduce delays, queues, pollutant air emissions and collisions. Improve traffic flow, and facilitate safe pedestrians and bicyclists travel throughout along these corridors especially at signalized locations. The project scope includes data collection, analysis, computer modeling and development of new traffic signal coordination timing plans per Caltrans requirements to include revision and updated bike and pedestrian crossing times as well as clearance times at all traffic signals included in this project. As part of this project travel time equipment will be procured and deployed to monitor the new optimized traffic signals timing plans, and help maintain progression along the corridors.

Project Evaluation and Analysis:

The Duane Avenue corridor currently does not operate on a coordinated mode; with this project traffic signal coordination timing will be developed and implemented along the corridor per current Caltrans and industry standards. New traffic data will be collected and will also be used to update clearance, pedestrian and bicycle timing for each location part of this project in compliance with latest Caltrans requirements. As per industry standard the traffic signal timings should be updated on a 2 to 4 years cycle. This is important to account for the changes in vehicular, bicyclists and pedestrian traffic demand, and help reduce congestion, delays and improve travel times.

Fiscal Impact:

Budget Modification No. 20 has been prepared to appropriate FY 2019/20 TFCA County Program Manager Funds in the amount of \$45,900.00 to project for retiming of traffic signals. No matching funds or ongoing operating costs are required. All expenditures will be covered with the grant award appropriations.

Funding Sources:

Santa Clara VTA TFCA Program Manager Grant

Plans and Goals:

LT - Land Use and Transportation - LT-1: Coordinated Regional and Local Planning

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	-	-	-	-
2019 - 20	45,900	45,900	-	-
2020 - 21	-	-	-	-
2021 - 22	-	-	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	45,900	45,900	-	-

Project: 835070 - Wolfe Road Traffic Signals Retiming

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Carmen Talavera
Year Identified:	2020	Project Phase:	Planning	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	C90 - Public Works	Fund - Sub-Fund:	385-100 - Capital Projects - General Fund Assets

Project Description/Scope/Purpose:

The project goal is to reduce delays, queues, pollutant air emissions and collisions. Improve traffic flow, and facilitate safe pedestrians and bicyclists travel throughout along these corridors especially at signalized locations. The project scope includes data collection, analysis, computer modeling and development of new traffic signal coordination timing plans per Caltrans requirements to include revision and updated bike and pedestrian crossing times as well as clearance times at all traffic signals included in this project. As part of this project travel time equipment will be procured and deployed to monitor the new optimized traffic signals timing plans, and help maintain progression along the corridors.

Project Evaluation and Analysis:

The Wolfe Road corridor was retimed in 2017, however, per industry standards, traffic signal timing should be updated on a 2 to 4 year cycle. This corridor currently operate on a coordinated mode; with this project new traffic volume data will be collected to develop and implement updated traffic signal coordination timing along the corridor. Clearance, pedestrian and bicycle timing for each location part of this project will be updated in compliance with latest Caltrans requirements. Regular retiming of traffic signal systems is important to account for the changes in vehicular, bicyclists and pedestrian traffic demand, and to help reduce congestion, delays and improve travel times.

Fiscal Impact:

Budget Modification No. 20 has been prepared to appropriate FY 2019/20 TFCA County Program Manager Funds in the amount of \$116,600 to project for retiming of traffic signals. No matching funds or ongoing operating costs are required. All expenditures will be covered with the grant award appropriations.

Funding Sources:

Santa Clara VTA TFCA Program Manager Grant

Plans and Goals:

LT - Land Use and Transportation - LT-1: Coordinated Regional and Local Planning

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	-	-	-	-
2019 - 20	116,600	116,600	-	-
2020 - 21	-	-	-	-
2021 - 22	-	-	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	116,600	116,600	-	-

Project: 835080 - Homestead Road Traffic Signals Retiming

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Carmen Talavera
Year Identified:	2020	Project Phase:	Planning	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	C90 - Public Works	Fund - Sub-Fund:	385-100 - Capital Projects - General Fund Assets

Project Description/Scope/Purpose:

The project goal is to reduce delays, queues, pollutant air emissions and collisions. Improve traffic flow, and facilitate safe pedestrians and bicyclists travel throughout along these corridors especially at signalized locations. The project scope includes data collection, analysis, computer modeling and development of new traffic signal coordination timing plans per Caltrans requirements to include revision and updated bike and pedestrian crossing times as well as clearance times at all traffic signals included in this project. As part of this project travel time equipment will be procured and deployed to monitor the new optimized traffic signals timing plans, and help maintain progression along the corridors.

Project Evaluation and Analysis:

The Homestead Road corridor was retimed in 2017, however, per industry standards, traffic signal timing should be updated on a 2 to 4 year cycle. This corridor currently operate on a coordinated mode; with this project new traffic volume data will be collected to develop and implement updated traffic signal coordination timing along the corridor. Clearance, pedestrian and bicycle timing for each location part of this project will be updated in compliance with latest Caltrans requirements. Regular retiming of traffic signal systems is important to account for the changes in vehicular, bicyclists and pedestrian traffic demand, and to help reduce congestion, delays and improve travel times.

Fiscal Impact:

Budget Modification No. 20 has been prepared to appropriate FY 2019/20 TFCA County Program Manager Funds in the amount of \$61,100 to project for retiming of traffic signals. No matching funds or ongoing operating costs are required. All expenditures will be covered with the grant award appropriations.

Funding Sources:

Santa Clara VTA TFCA Program Manager Grant

Plans and Goals:

LT - Land Use and Transportation - LT-1: Coordinated Regional and Local Planning

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	-	-	-	-
2019 - 20	61,100	61,100	-	-
2020 - 21	-	-	-	-
2021 - 22	-	-	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	61,100	61,100	-	-

Project: 835090 - Bernardo Avenue Traffic Signals Retiming

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Carmen Talavera
Year Identified:	2020	Project Phase:	Planning	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	C90 - Public Works	Fund - Sub-Fund:	385-100 - Capital Projects - General Fund Assets

Project Description/Scope/Purpose:

The project goal is to reduce delays, queues, pollutant air emissions and collisions. Improve traffic flow, and facilitate safe pedestrians and bicyclists travel throughout along these corridors especially at signalized locations. The project scope includes data collection, analysis, computer modeling and development of new traffic signal coordination timing plans per Caltrans requirements to include revision and updated bike and pedestrian crossing times as well as clearance times at all traffic signals included in this project. As part of this project travel time equipment will be procured and deployed to monitor the new optimized traffic signals timing plans, and help maintain progression along the corridors.

Project Evaluation and Analysis:

The Bernardo Avenue corridor currently does not operate on a coordinated mode; with this project traffic signal coordination timing will be developed and implemented along the corridor per current Caltrans and industry standards. New traffic data will be collected and will also be used to update clearance, pedestrian and bicycle timing for each location part of this project in compliance with latest Caltrans requirements. As per industry standard the traffic signal timings should be updated on a 2 to 4 years cycle. This is important to account for the changes in vehicular, bicyclists and pedestrian traffic demand, and help reduce congestion, delays and improve travel times.

Fiscal Impact:

Budget Modification No. 20 has been prepared to appropriate FY 2019/20 TFCA County Program Manager Funds in the amount of \$40,200 to project for retiming of traffic signals. No matching funds or ongoing operating costs are required. All expenditures will be covered with the grant award appropriations.

Funding Sources:

Santa Clara VTA TFCA Program Manager Grant

Plans and Goals:

LT - Land Use and Transportation - LT-1: Coordinated Regional and Local Planning

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	-	-	-	-
2019 - 20	40,200	40,200	-	-
2020 - 21	-	-	-	-
2021 - 22	-	-	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	40,200	40,200	-	-

Project: 835100 - Kifer Road Traffic Signals Retiming

Category:	Capital	Project Type:	Traffic and Transportation	Project Manager:	Carmen Talavera
Year Identified:	2020	Project Phase:	Planning	Project Coordinator:	Carmen Talavera
Est. Completion Year:	2021/22	Department:	C90 - Public Works	Fund - Sub-Fund:	385-100 - Capital Projects - General Fund Assets

Project Description/Scope/Purpose:

The project goal is to reduce delays, queues, pollutant air emissions and collisions. Improve traffic flow, and facilitate safe pedestrians and bicyclists travel throughout along these corridors especially at signalized locations. The project scope includes data collection, analysis, computer modeling and development of new traffic signal coordination timing plans per Caltrans requirements to include revision and updated bike and pedestrian crossing times as well as clearance times at all traffic signals included in this project. As part of this project travel time equipment will be procured and deployed to monitor the new optimized traffic signals timing plans, and help maintain progression along the corridors.

Project Evaluation and Analysis:

The Kifer Road corridor currently does not operate on a coordinated mode; with this project traffic signal coordination timing will be developed and implemented along the corridor per current Caltrans and industry standards. New traffic data will be collected and will also be used to update clearance, pedestrian and bicycle timing for each location part of this project in compliance with latest Caltrans requirements. As per industry standard the traffic signal timings should be updated on a 2 to 4 years cycle. This is important to account for the changes in vehicular, bicyclists and pedestrian traffic demand, and help reduce congestion, delays and improve travel times.

Fiscal Impact:

Budget Modification No. 20 has been prepared to appropriate FY 2019/20 TFCA County Program Manager Funds in the amount of \$39,100 to project for retiming of traffic signals. No matching funds or ongoing operating costs are required. All expenditures will be covered with the grant award appropriations.

Funding Sources:

Santa Clara VTA TFCA Program Manager Grant

Plans and Goals:

LT - Land Use and Transportation - LT-1: Coordinated Regional and Local Planning

Project Financial Summary

	Project Costs	Revenues	Transfers In	Operating Costs
Prior Actual	-	-	-	-
2019 - 20	39,100	39,100	-	-
2020 - 21	-	-	-	-
2021 - 22	-	-	-	-
2022 - 23	-	-	-	-
2023 - 24	-	-	-	-
2024 - 25	-	-	-	-
2025 - 26	-	-	-	-
2026 - 27	-	-	-	-
2027 - 28	-	-	-	-
2028 - 29	-	-	-	-
2029 - 30	-	-	-	-
2030 - 31	-	-	-	-
2031 - 32	-	-	-	-
2032 - 33	-	-	-	-
2033 - 34	-	-	-	-
2034 - 35	-	-	-	-
2035 - 36	-	-	-	-
2036 - 37	-	-	-	-
2037 - 38	-	-	-	-
2038 - 39	-	-	-	-
2039 - 40	-	-	-	-
20 Year Total	-	-	-	-
Grand Total	39,100	39,100	-	-