

Meeting Date: 5/3/2016

Report Type: Consent

Report ID: 2016-00428

Title: Establish Capital Improvements Projects and Appropriate and Transfer Funds

Location: Districts 2, 3, 4, 5, 6, 7, and 8

Recommendation: Pass a Resolution 1) establishing the Highway Safety Improvement Program (HSIP) Pedestrian Islands and Flashing Beacons Project (T15165600), HSIP Advanced Dilemma Zone Detection Project (T15165700), HSIP Pedestrian Signal/Traffic Signal Head Replacement Project (T15165800), HSIP Street Lighting Project (T15165900), HSIP Pedestrian Hybrid Beacons Project (T15166000), and HSIP Traffic Signal Modifications Project (T15166100); and 2) appropriating and transferring funds.

Contact: Cecilyn Foote, Associate Civil Engineer (916) 808-6843; Nicholas Theocharides, Engineering Services Manager (916) 808-5065, Department of Public Works

Presenter: None

Department: Public Works Department

Division: Engineering Services Admin

Dept ID: 15001111

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Resolution

City Attorney Review

Approved as to Form
Gerald Hicks
4/23/2016 5:23:03 PM

Approvals/Acknowledgements

Department Director or Designee: Jerry Way - 4/14/2016 4:30:12 PM

Description/Analysis:

Issue: The establishment of Capital Improvement Program (CIP) projects and the appropriation and transfer of funds are necessary to begin work on the projects listed below. These projects will improve roadway safety for drivers, pedestrians, and cyclists, as well as potentially decrease emergency response times.

Through the HSIP, Caltrans programmed federal funds for the HSIP Pedestrian Islands and Flashing Beacons Project (T15165600), HSIP Advanced Dilemma Zone Detection Project (T15165700), HSIP Pedestrian Signal/Traffic Signal Head Replacement Project (T15165800), HSIP Street Lighting Project (T15165900), HSIP Pedestrian Hybrid Beacons Project (T15166000), and HSIP Traffic Signal Modifications Project (T15166100). Staff must appropriate these funds and establish new CIP numbers in order to begin design. Funds have been programmed through construction. Local funds for match and federally ineligible expenses will be transferred from the Pedestrian Safety Program (S15120500), the Traffic Signal Safety Upgrade Program (S15114100), and the State and Federal Grant Match Project (T15007200).

Policy Considerations: The action requested herein is consistent with the City of Sacramento General Plan goals of promoting safety and enhancing livability and sustainability.

Economic Impacts: None.

Environmental Considerations:

California Environmental Quality Act (CEQA)/ National Environmental Policy Act (NEPA): The establishment of a CIP, appropriation and transfer of funds are not subject to the provisions of the CEQA. Under CEQA general rule 15061(B)(3), CEQA applies only to projects which have the potential for causing a significant effect on the environment. These actions will have no effect on the environment, thus are not subject to CEQA. Appropriate CEQA and NEPA review will take place as part of project development.

Sustainability Considerations: These projects are consistent with the City's Sustainability Master Plan goals to improve and optimize the City's transportation infrastructure and to encourage the use of bicycle and pedestrian modes of transportation.

Other: None.

Commission/Committee Action: None.

Rationale for Recommendation: The establishment of CIP projects and the appropriation and transfer of funds are necessary to deliver these projects.

Financial Considerations: The cost of Preliminary Engineering (PE) is listed in the table below. The projects will be funded with the amounts appropriated in federal funds (Fund 3703) and transfers from the Pedestrian Safety Program (S15120500), the Traffic Signal Safety Upgrade Program (S15114100), and the State and Federal Grant Match Project (T15007200).

CIP	Project Name	*Federal Funding Appropriation (Fund 3703)	Transfer	Total Project Cost (PE only)
T15165600	HSIP Pedestrian Islands and Flashing Beacons	\$76,500	\$52,447 S15120500 (Fund 2025)	\$128,947
T15165700	HSIP Advanced Dilemma Zone Detection	\$74,100	\$42,568 S15114100 (Fund 2001)	\$116,668
T15165800	HSIP Pedestrian Signal/Traffic Signal Head Replacement	\$515,000	\$295,851 S15120500 (Fund 2025)	\$810,851
T15165900	HSIP Street Lighting	\$280,100	\$160,909 T15007200 (Fund 2001)	\$441,009
T15166000	HSIP Pedestrian Hybrid Beacons	\$269,000	\$134,426 S15120500 (Fund 2025)	\$403,426

T15166100	HSIP Traffic Signal Modifications	\$240,400	\$138,102 S15114100 (Fund 2001)	\$378,502
*Any remaining federal PE funds may be transferred to the right of way or construction phases.				

As of April 4, 2016, the Pedestrian Safety Program (S15120500) has an unobligated balance of \$807,755, which is sufficient to complete the transfer to the three projects listed above as well as complete the remaining program requirements. The above transfers total \$482,724.

As of April 4, 2016, the Traffic Signal Safety Upgrade Program (S15114100) has an unobligated balance of \$468,071, which is sufficient to complete the transfer to the two projects listed above as well as complete the remaining program requirements. The above transfers total \$180,670.

As of April 4, 2016, the State and Federal Grant Match Project (T15007200) has an unobligated balance of \$8,806,643, which is sufficient to complete the transfer to the project listed above as well as complete the remaining program requirements. The above transfer totals \$160,909.

There are no General Funds planned or allocated for these projects.

Local Business Enterprise (LBE): No goods or services are being procured with these actions. This is a federally-funded project, and any future procurement will be subject to Disadvantaged Business Enterprise (DBE) requirements and LBE program will be held in abeyance.

Background:

HSIP Pedestrian Islands and Flashing Beacons Project (T15165600): This project proposes to install pedestrian refuge islands and rectangular rapid flashing beacons (RRFBs) at uncontrolled crosswalks on eleven collector roadways. With similar roadway and traffic characteristics, these locations have been identified by staff as requiring RRFBs and raised medians or refuge islands where feasible to improve safety. Five of the locations have a history of pedestrian and bicycle related collisions.

1. Valley Hi Drive at Kentwal Drive
2. San Juan Road at Bandon Way
3. Havenside Drive at Las Positas Circle (W)
4. Grand Avenue at Altos Avenue
5. Del Paso Boulevard at American River Bike Trail
6. Rush River Drive at Pocket Canal Parkway
7. La Riviera Drive at Waterglen Circle (E)
8. La Riviera Drive at Moorbrook Way
9. La Riviera Drive at Mediterranean Way (E)
10. La Riviera Drive at Lido Circle
11. J Street at 35th Street

HSIP Advanced Dilemma Zone Detection Project (T15165700): This project proposes to install advanced dilemma zone loops for high speed approaches at six existing signalized intersections along various corridors within the City's roadway network. All six intersections have patterns of rear end collisions, right angle collisions or both and have been identified by staff as having inadequate dilemma zone protection on the high speed approaches. Providing detection at an adequate distance from the intersection will affect signal timing to either activate a longer green time to allow vehicles to continue through the intersection or to activate a yellow display in time for vehicles to stop.

1. Franklin Boulevard at Fruitridge Road
2. Franklin Boulevard at Brookfield Drive
3. Franklin Boulevard at Mack Road
4. Northgate Boulevard at Haggin Drive
5. Ethan Way at Exposition Boulevard
6. Howe Avenue at Fair Oaks Boulevard

HSIP Pedestrian Signal/Traffic Signal Head Replacement Project (T15165800): This project proposes to install pedestrian countdown signal heads, to replace 8-inch

vehicle signal heads with 12-inch heads, and to install emergency vehicle preemption equipment along various corridors in the downtown/midtown area. Intersections within this area have been identified by staff as having a high frequency of pedestrian, bicycle, and vehicular collisions. The addition of pedestrian countdown signal heads will make pedestrians aware of how much time they have to cross. The upgrade of the traffic signal heads will provide better visibility and clarity of the signal displays and will aid a driver's perception of road conditions ahead. The installation of an emergency vehicle preemption system along certain corridors will help to avoid collisions involving emergency vehicles navigating through intersections and will potentially decrease emergency response times.

1. Area bounded by Interstate 5, Broadway, Alhambra Boulevard, and C Street
2. North 16th Street at Sproule Street/Basler Street
3. North 16th Street at North B Street

HSIP Street Lighting Project (T15165900): This project proposes to install street lighting along three corridors. These corridors have high frequencies of collisions where lighting was identified as a factor. Providing roadway lighting where there are no street lights and improving poor lighting due to long spacing between street lights will improve drivers' sight distance and will lead to improved perception-reaction times.

1. Rio Linda Boulevard – Claire Avenue to North Avenue
2. Freeport Boulevard – Florin Road to Meadowview Road
3. Meadowview Road – Amherst Street to 24th Street

HSIP Pedestrian Hybrid Beacons Project (T15166000): This project proposes to install pedestrian hybrid beacons and a pedestrian signal at uncontrolled crosswalks on nine arterial roadways. The locations were identified by staff through a comprehensive review of available citywide accident data on pedestrian and bicyclist accidents at uncontrolled street crossings during the previous five years. Typically, these uncontrolled crossings are located at an intersection of a major arterial with a minor street where crossing the major arterial can create potential safety issues for pedestrians and bicyclists.

1. 24th Street at 53rd Avenue
2. Valley Hi Drive at Valley Green Drive
3. Broadway at 36th Street/4th Avenue
4. Broadway at 38th Street
5. Del Paso Boulevard at Helena Avenue
6. 15th Street at Capitol Avenue
7. Sutterville Road at East Road
8. West El Camino Avenue at Grasslands Drive

9. Bruceville Road at Staccato Street

HSIP Traffic Signal Modifications Project (T15166100): This project proposes to improve visibility of intersection signs and signals to aid drivers' advance perception of upcoming signalized intersections along various corridors within the City's roadway network. This will be accomplished by replacing traffic signal heads mounted on pedestals in medians with mast arm traffic signals at five locations. All five intersections are on the City's top ranked collision rate locations with frequencies of right angle and rear end crashes occurring because of poor advance visibility of traffic signals.

1. Martin Luther King Jr Boulevard at Fruitridge Road
2. 65th Street at Elder Creek Road
3. Power Inn Road at Elder Creek Road
4. 24th Street at Meadowview Road
5. Center Parkway at Mack Road

RESOLUTION NO.

Adopted by the Sacramento City Council

ESTABLISH CAPITAL IMPROVEMENT PROJECTS AND APPROPRIATE FUNDS

BACKGROUND

- A. In 2015, Caltrans was awarded Highway Safety Improvement Program (HSIP) Cycle 7 program funds for the following projects: HSIP Pedestrian Islands and Flashing Beacons Project (T15165600), HSIP Advanced Dilemma Zone Detection Project (T15165700), HSIP Pedestrian Signal/Traffic Signal Head Replacement Project (T15165800), HSIP Street Lighting Project (T15165900), HSIP Pedestrian Hybrid Beacons Project (T15166000), and HSIP Traffic Signal Modifications Project (T15166100).
- B. In order to begin preliminary engineering, these projects need to be established as Capital Improvements Projects (CIP), the federal funds need to be appropriated, and the local funds must be transferred to cover local match and ineligible expenses.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Establishing CIPs

- Section 1. The HSIP Pedestrian Islands and Flashing Beacons Project (T15165600) is established as a new Capital Improvement Project.
- Section 2. The HSIP Advanced Dilemma Zone Detection Project (T15165700) is established as a new Capital Improvement Project.
- Section 3. The HSIP Pedestrian Signal/Traffic Signal Head Replacement Project (T15165800) is established as a new Capital Improvement Project.
- Section 4. The HSIP Street Lighting Project (T15165900) is established as a new Capital Improvement Project.

Section 5. The HSIP Pedestrian Hybrid Beacons Project (T15166000) is established as a new Capital Improvement Project.

Section 6. The HSIP Traffic Signal Modifications Project (T15166100) is established as a new Capital Improvement Project.

Federal Appropriations

Section 7. The 2015/16 Capital Improvement Program budget is amended by appropriating \$76,500 (Fund 3703) to the HSIP Pedestrian Islands and Flashing Beacons Project (T15165600).

Section 8. The 2015/16 Capital Improvement Program budget is amended by appropriating \$74,100 (Fund 3703) to the HSIP Advanced Dilemma Zone Detection Project (T15165700).

Section 9. The 2015/16 Capital Improvement Program budget is amended by appropriating \$515,500 (Fund 3703) to the HSIP Pedestrian Signal/Traffic Signal Head Replacement Project (T15165800).

Section 10. The 2015/16 Capital Improvement Program budget is amended by appropriating \$280,100 (Fund 3703) to the HSIP Street Lighting Project (T15165900).

Section 11. The 2015/16 Capital Improvement Program budget is amended by appropriating \$269,000 (Fund 3703) to the HSIP Pedestrian Hybrid Beacons Project (T15166000).

Section 12. The 2015/16 Capital Improvement Program budget is amended by appropriating \$240,400 (Fund 3703) to the HSIP Traffic Signal Modifications Project (T15166100).

Local Fund Transfers

Section 13. The 2015/16 Capital Improvement Program budget is amended by transferring \$52,447 (Fund 2025) from the Pedestrian Safety Program (S15120500) to the HSIP Pedestrian Islands and Flashing Beacons Project (T15165600).

- Section 14. The 2015/16 Capital Improvement Program budget is amended by transferring \$42,568 (Fund 2001) from the Traffic Signal Safety Upgrade Program (S15114100) to the HSIP Advanced Dilemma Zone Detection Project (T15165700).
- Section 15. The 2015/16 Capital Improvement Program budget is amended by transferring \$295,851 (Fund 2025) from the Pedestrian Safety Program (S15120500) to the HSIP Pedestrian Signal/Traffic Signal Head Replacement Project (T15165800).
- Section 16. The 2015/16 Capital Improvement Program budget is amended by transferring \$160,909 (Fund 2001) from the State and Federal Grant Match Project (T15007200) to the HSIP Street Lighting Project (T15165900).
- Section 17. The 2015/16 Capital Improvement Program budget is amended by transferring \$134,426 (Fund 2025) from the Pedestrian Safety Program (S15120500) to the HSIP Pedestrian Hybrid Beacons Project (T15166000).
- Section 18. The 2015/16 Capital Improvement Program budget is amended by transferring \$138,102 (Fund 2001) from the Traffic Signal Safety Upgrade Program (S15114100) to the HSIP Traffic Signal Modifications Project (T15166100).