



DATE: February 11, 2020

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Intersection Traffic Signal System – Major Replacements and Upgrades (Shoreline Boulevard/Villa Street), Project 16-27 – Various Actions**

RECOMMENDATION

1. Adopt a Resolution Authorizing the City Manager to Execute Program Supplement Agreement No. F025 to the Administering Agency-State Agreement for Federal-Aid Projects – Agreement No. 04-5124F15 with the State of California, acting by and through its Department of Transportation for Intersection Traffic Signal System – Major Replacements and Upgrades (Shoreline Boulevard and Villa Street), Project 16-27, to be read in title only, further reading waived (Attachment 1 to the Council report).
2. Increase appropriations by \$1,034,993 in Project 16-27, Intersection Traffic Signal System – Major Replacements and Upgrades (Shoreline Boulevard/Villa Street), from the following: \$400,725 Highway Safety Improvement Program Federal grant funds, \$241,768 Transportation Development Act funds, and \$392,500 developer contribution funds to be received. (Five votes required)
3. Transfer and appropriate \$156,000 from the Construction/Conveyance Tax Fund to Project 16-27 Intersection Traffic Signal System – Major Replacements and Upgrades (Shoreline Boulevard/Villa Street). (Five votes required)
4. Approve plans and specifications for Intersection Traffic Signal System – Major Replacements and Upgrades (Shoreline Boulevard/Villa Street), Project 16-27, and authorize staff to advertise the project for bids.
5. Authorize the City Manager to award a construction contract to the lowest responsible bidder if the bid is within the project budget.

BACKGROUND

The traffic signal at the intersection of Shoreline Boulevard and Villa Street is approximately 50 years old, and all major components are either at the end of their useful life or do not meet current standards.

The existing signal operation presents conflicts where bicyclists on Villa Street cross Shoreline Boulevard in each direction at the same time vehicles make left turns from Villa Street. The left turn conflicts also exist for pedestrians crossing Shoreline Boulevard in the existing crosswalk on the south side of Villa Street. A free right-turn lane with a “pork chop” island exists at the northeast corner of the intersection creating conflicts between relatively fast, right-turning vehicles and bicycles/pedestrians. The northwest corner radius is very large, encouraging southbound drivers on Shoreline Boulevard to make right turns at relatively high speeds onto westbound Villa Street. No pedestrian crosswalk exists on the north side of this intersection.

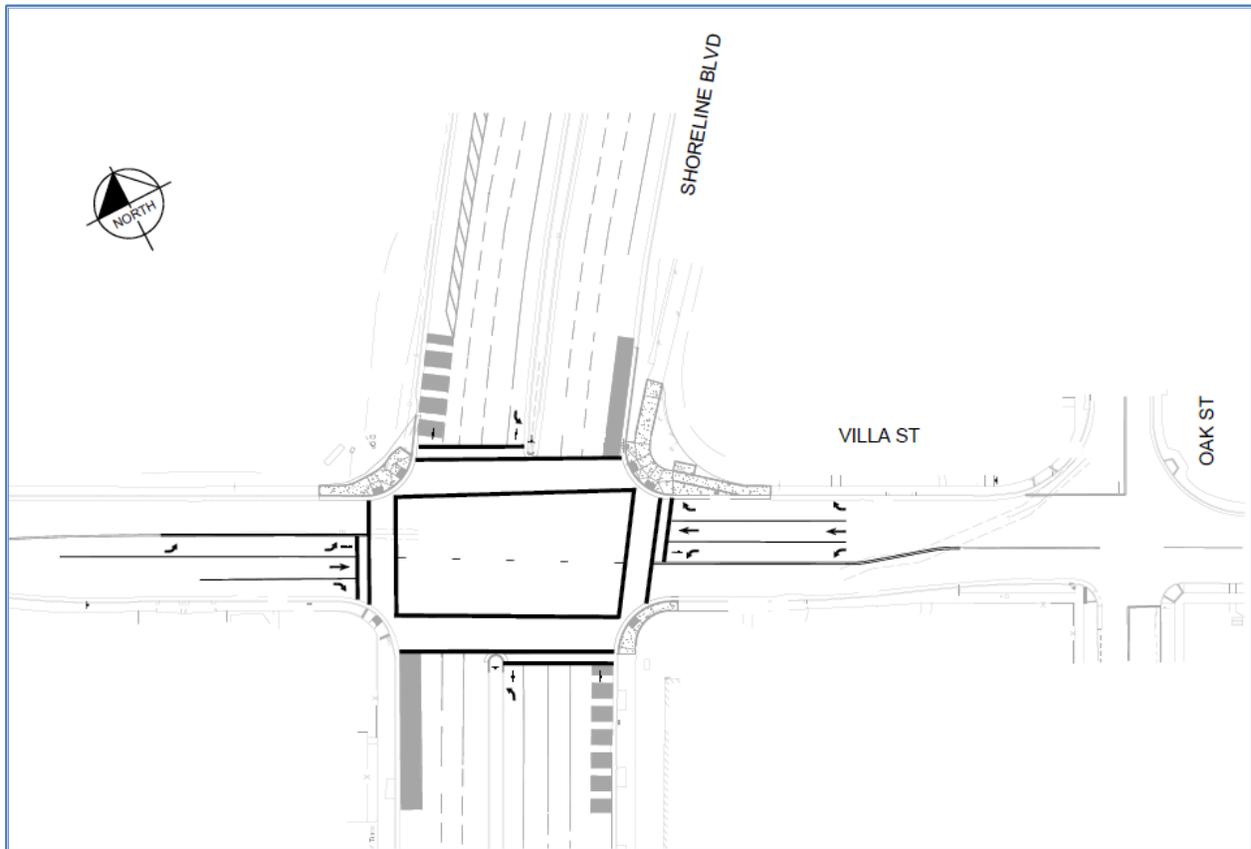
Figure 1: Existing Conditions



ANALYSIS

The recommended plans provide for replacing the traffic signal and addressing the existing conflicts.

Figure 2: Project Improvement Overview



The proposed layout is shown in Figure 2 and includes:

1. Installing a new eight-phase traffic signal (protected left turns and pedestrian signal), which replaces the existing, aging, five-phase traffic signal, addressing the bicycle, pedestrian, and left-turning vehicular traffic conflicts;
2. Removing the “pork chop” island and free right-turn lane at the northeast corner;
3. Tightening the curb radius at the northwest corner to slow right-turning vehicles;

4. Restriping westbound Villa Street to add an exclusive right-turn lane, a through lane, and an exclusive left-turn lane;
5. Adding a new crosswalk on the north side of this intersection; and
6. Installing related signing, striping, and Americans with Disabilities Act (ADA)-compliant access ramps and sidewalks.

These improvements will help enhance bicycle, pedestrian, and vehicular safety and reduce traffic-signal maintenance, delays, and congestion caused by deferred maintenance.

In accordance with the California Environmental Quality Act (CEQA), this project has been determined to be categorically exempt as minor alterations to existing public facilities. Plans and specifications for the project are complete and available for viewing in the Public Works Department.

FISCAL IMPACT

The estimated project costs for the project are as follows:

Construction	\$1,042,000
Construction Contingency	100,000
Design Engineering	114,000
Project Management (Includes Design)	126,000
Inspection	<u>92,000</u>
 Subtotal	 \$1,474,000
 City Administration (6.5%)	 <u>96,000</u>
 TOTAL PROJECT COST	 <u>\$1,570,000</u>

The project is currently funded with \$379,000 from the Construction/Conveyance Tax Fund. As part of the recommendation in this report, staff is requesting City Council increase appropriations in Project 16-27 by \$1,034,993 from the following:

- \$400,725 of Highway Safety Improvement Program Federal grant funds, which the City accepts by adopting the resolution (see Attachment 1);

- \$241,768 from Transportation Development Act funds available for this project as allocated by the Metropolitan Transportation Commission on July 24, 2019; and
- \$392,500 (25 percent of project cost) from a developer contribution by Prometheus Real Estate Group Inc. as part of the Conditions of Approval for the 1720 Villa Street development project approved by Council on June 4, 2019.

This would bring the total project funding to \$1,413,993, short \$156,000 of the estimated project costs. Staff is recommending the transfer and appropriation of \$156,000 from the Construction/Conveyance Tax Fund to fully fund the project.

ALTERNATIVES

1. Modify the project.
2. Defer project construction.
3. Provide other direction to staff.

PUBLIC NOTICING – Agenda posting.

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DG/TS/6/CAM/916-02-11-20CR/200116

Attachment: 1. Resolution

cc: APWD – Arango, CTE, STE – Aggarwal, ACE – Galang, SMA – Goedicke, PA – Li,
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