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Staff Report for Resolution Establishing Standard Components for the City's Traffic Signal System to Ensure Compatibility

RECOMMENDATIONS

Staff recommends that the City Council adopt a resolution standardizing the components to ensure compatibility with the City's existing traffic signal system.

BACKGROUND

During the Pre-Bid meeting on December 13, 2011 for the Bancroft Avenue and 136th Avenue Signal project, the issue of which components could be used for the project was raised. Staff investigated the issue and determined that the City's traffic signal system requires that certain components be used to ensure compatibility and functionality. Standardizing the components will ensure compatibility, functionality, and will reduce costs.

Analysis

The City's new Advanced Traffic Management System (ATMS) was completed in spring 2011. To allow the traffic signal system to function at its full potential, we must ensure the compatibility and performance of its major components. Staff recommends that the following components be established as the City's standard traffic signal system devices:

- Naztec Traffic Controller
- Naztec Controller Cabinet Assemblies
- EtherWan Ethernet Switch
- COYOTE Dome Closure

- Aldis Video Detection System
- Econolite Video Detection System
- Polara Navigator Accessible Pedestrian System (APS)
- 3M Opticom Emergency Vehicle Preemption (EVP)

The above listed items were initially selected by competitive bid or on a performance basis. These items are either integral components or accessory components compatible with the existing equipment. Economy and efficiency support selecting these components through a competitively awarded contract. In addition, standardizing these traffic signal system components will allow the City and/or contractors to purchase these components directly from vendors when it is advantageous to the City. It will also reduce routine maintenance expenses, avoid extra training on new components, and decrease the inventory of replacement parts.

Current Agency Policies

Continued development and expansion of the City's Advanced Traffic Management System

Previous Actions

On July 6, 2009 by Resolution No. 2009-101, the City Council approved a contractual services agreement to upgrade the City's Advanced Traffic Management System.

On November 7, 2011 by Resolution No. 2011-186, the City Council approved plans and specifications and calling for bids for the Bancroft Avenue and 136th Avenue Traffic Signal Project.

Applicable General Plan Policies

Policy 16.03-Maintenance: Regularly maintain city streets and traffic control devices to ensure that streets operate safely and efficiently.

Legal Analysis

City Legal staff was consulted and recommended obtaining Council approval for standardized components for the traffic signal system.

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