

**CITY COUNCIL AGENDA ITEM**  
CITY OF SHORELINE, WASHINGTON

<b>AGENDA TITLE:</b>	Motion to Authorize the City Manager to Execute an Agreement with DKS Associates in the amount of \$90,000 for developing signal timing plans and related signal work		
<b>DEPARTMENT:</b>	Public Works		
<b>PRESENTED BY:</b>	Mark Relph, Public Works Director		
<b>ACTION:</b>	<input type="checkbox"/> Ordinance	<input type="checkbox"/> Resolution	<input checked="" type="checkbox"/> Motion
	<input type="checkbox"/> Discussion	<input type="checkbox"/> Public Hearing	

**PROBLEM/ISSUE STATEMENT:**

In 2010, the Federal Highway Administration adopted a slower walking rate for calculating pedestrian crossing times at signalized intersections. As a result, the City's current signalized locations do not meet this new standard.

Staff is requesting Council authorize the City Manager to execute a contract with DKS Associates for \$90,000 to develop new signal timing plans and optimize all of the City's traffic signals, which will bring the City into compliance with the current adopted standards.

**FINANCIAL IMPACT:**

The total budget for this project is \$90,000. This work will be funded through a grant the City has received from the Federal Highway Association to improve intersection safety.

**RECOMMENDATION**

Staff recommends that Council authorize the City Manager to execute an agreement with DKS Associates for \$90,000 to develop new signal timing plans and optimize all of the City's forty-five traffic signals.

Approved By:            City Manager **JU**    City Attorney **IS**

## **INTRODUCTION**

In 2010, the Federal Highway Administration adopted a slower walking rate for calculating pedestrian crossing times at signalized intersections. As a result, the city's current signalized locations do not meet this new standard. Staff is requesting Council authorize the City Manager to execute a contract with DKS for \$90,000 to develop new signal timing plans and optimize all of the City's traffic signals, which will bring the City into compliance with the current adopted standards.

## **BACKGROUND**

Prior to 2010, the adopted Federal standard used for calculating the length of time pedestrians need to cross the street at signalized intersections was 4.0 feet per second. In 2010, the Federal Highway Administration (FHWA) revised the walking rate to 3.5 feet per second, providing additional time for pedestrians to cross the roadway and enhancing safety. With the revised pedestrian walking rate, the City's signalized locations were no longer in compliance with adopted standards.

In 2012, the City applied for and was awarded a Highway Safety Improvement Program (HSIP) grant offered by the FHWA aimed at improving intersection safety. The City received \$350,000 to re-time all of the City's traffic signals to conform to the newly adopted standard, and to further enhance safety by installing countdown pedestrian signal heads and Accessible Pedestrian Signals (APS) at several signalized locations. APS are devices that provide audible and tactile information to pedestrians who are blind or have low vision, indicating when it is appropriate to cross. Attachment A is a map of all of the traffic signals in Shoreline.

The grant will be divided into two separate but related projects. The first project will retime of all of the City's traffic signals to comply with the new walking rate. This work will be completed by a consultant working closely with City staff. The new timing plans will also optimize the signal timing to help improve traffic flow. After advertising for consultants, the City selected DKS Associates to complete this work. The estimate for this project is \$105,000, which includes \$90,000 for consultant work and \$15,000 for City staff work.

The second project will install countdown pedestrian signal heads and Accessible Pedestrian Signal buttons at several signalized locations. This work will require reconstructing pedestrian landings at selected intersections in order to comply with federal standards on accessible pedestrian routes. City staff will design and manage this project but will use a private contractor for construction. This project will be completed through a separate contract, which will be advertised later this year; the estimate for this project is \$245,000.

## **ALTERNATIVES ANALYSIS**

This project was advertised for a consultant in February 2013, the City received Statements of Qualification from one consulting firm for evaluation. After a review of the proposal, staff determined that DKS Associates was qualified for this project and recommends that they be awarded the project. Their selection was based on their

extensive knowledge and experience with this type of work, as well as with the City's past experience working with this firm on similar projects. The alternative would be to not award the project to DKS and re-advertising the RFQ, which would result in delay to the project and not being able to meet the conditions of the grant.

### **FINANCIAL ANALYSIS**

FHWA Grant will be used to fund this project. Following is a table on the estimated project costs:

#### **Project Costs**

<b>Design</b>	<b>\$ 105,000.00</b>
DKS Associates Signal Timing Services*	\$ 90,000.00
City Staff	\$ 15,000.00
<b>Construction</b>	<b>\$ 245,000.00</b>
Construction	\$ 200,000.00
Contingency	\$ 20,000.00
City Staff Inspection and Administration	\$ 25,000.00
<b>Total Project Costs</b>	<b>\$ 350,000.00</b>

(\* Includes services during construction)

#### **Project Revenue**

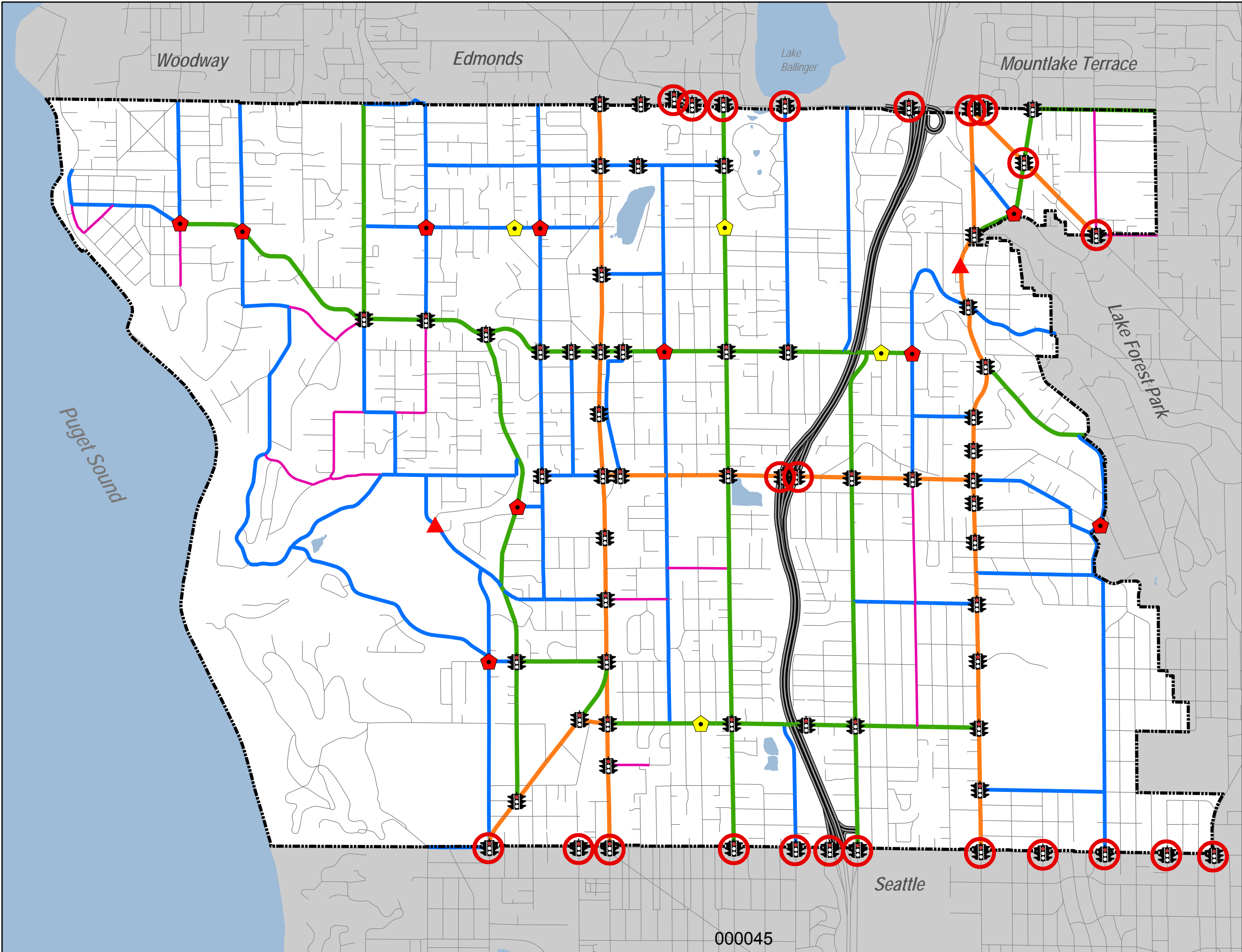
<b>FHWA HSIP Grant</b>	<b>\$350,000.00</b>
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### **RECOMMENDATION**

Staff recommends that Council authorize the City Manager to execute an agreement with DKS Associates for \$90,000 to develop new signal timing plans and optimize all of the City's forty-five traffic signals.

#### **ATTACHMENTS**

Attachment A – Traffic Signal Location Map



SHORELINE

Geographic Information System

Traffic Signal Location Map

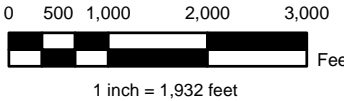
Attachment A

Legend

Traffic Signal Type:

- Full Signal Control
- Crosswalk Warning Flasher
- Red Flasher Control
- Advance Warning Flasher
- WSDOT/Seattle Signal

- Outside Shoreline
- Interstate
- Principal Arterial
- Minor Arterial
- Collector Arterial
- Local Primary
- Local Secondary



City of Shoreline  
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Map Date: 2013  
No warranties of any sort, including accuracy, fitness, or merchantability, accompany this product.

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