



**CITY OF KIRKLAND**  
Department of Public Works  
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## MEMORANDUM

**To:** Kurt Triplett, City Manager

**From:** David Snider, P.E., Capital Projects Manager  
Ray Steiger, P.E., Public Works Director

**Date:** November 9, 2012

**Subject:** NE 68<sup>th</sup> Street & 108<sup>th</sup> Avenue NE Intersection Improvements  
Accept Work

### RECOMMENDATION:

It is recommended that City Council accept the work on the NE 68<sup>th</sup> Street & 108<sup>th</sup> Avenue NE Intersection Improvements, as completed by Sanders General Construction, Maple Valley, Washington, and establish the statutory lien period. Additionally, it is recommended that City Council approve an additional \$28,000 in funding for the project.

### BACKGROUND DISCUSSION:

The NE 68<sup>th</sup> Street & 108<sup>th</sup> Avenue NE intersection improvements provided significant modifications to this heavily traveled intersection (Attachment A). The construction activities included work on all four corners of the intersection with an all-new traffic signal, signal controller and Intelligent Transportation System (ITS) equipment, and a new westbound to northbound right turn lane. The Project also provided pedestrian enhancements with wider sidewalks and new crosswalk amenities.

The ITS element for this Project has resulted in a measurable level of service improvement for the intersection. The new ITS components have begun providing real-time data collection and video monitoring via the City's fiber optic network. The new system offers instant visual communication and control access of the signal from Kirkland City Hall which allows remote signal timing adjustments as needed.

A post-construction "seconds-of-delay" study for the intersection shows an overall total reduction in traveler wait time of 2.5 seconds in the morning peak and 5.8 seconds for the evening peak. These wait time reductions have resulted in a full letter grade improvement for the intersection



Looking westbound on NE 68<sup>th</sup>

level-of-service (LOS); they have taken the signal from an LOS of "D" to that of a "C" significantly above the Kirkland minimum LOS standard (Kirkland's min v/c ratio of 1.4 = "F"). At their meeting of June 21, 2011, City Council awarded the construction contract to Sanders General Construction in the amount of \$541,254. The construction was physically completed on October 29, 2012, with the contractor being paid a total of \$601,702.42 (Attachment B); three change orders totaling \$15,115 were issued and adjustments for additional material quantities used totaled \$45,300.

Project funding is a combination of City transportation and surface water funds and a significant contribution from Sound Transit. At their meeting of April 19, 2012, City Council was updated on the need for additional funding for the Project due to increased costs resulting from design modifications, differing site conditions, construction issues, and an increase in staff resources necessary to manage the Project (Attachment B). As was noted in the April 19 update, field design changes were required as a result of errors made on the part of Puget Sound Energy (PSE) prior to construction of the Project. In addition, differing site conditions arose with the discovery of petroleum contaminated soils in the right-of-way that originated from the adjacent Shell Oil Gas Station that is located on the southeast corner of the intersection.

With construction now complete, and with all expenses known, the total final Project cost is projected to be \$1,648,512, or approximately \$33,500 above the estimate presented at the April 19 meeting. To date, the City has been reimbursed by PSE in the amount of nearly \$6,000 for required field design modifications, and staff continues to negotiate with Shell Oil and the City's design consultant on other Project cost impacts; additional external reimbursement of \$27,500 is being sought. However, since resolution of external reimbursements does not directly involve the City's construction contractor, and in order to proceed with establishing the statutory lien period and release of the Contractor's approximately \$30,000 of retained funds, staff recommends acceptance of the work.

Staff will continue to negotiate on the outstanding reimbursement matters with Shell Oil and the design consultant. An approval from City Council to increase the Project funding by \$28,000 from Street Improvement Reserve, will allow the Project will be fully funded. Once the negotiation outcome is known staff will report back to Council with a final overall budget summary and likely return of funds.

Attachment A: 68<sup>th</sup>/108<sup>th</sup> Area Map  
Attachment B: 68<sup>th</sup>/108<sup>th</sup> Project Budget Report  
Attachment C: Fiscal Note



Vicinity Map



Legend

# Map Reference Number



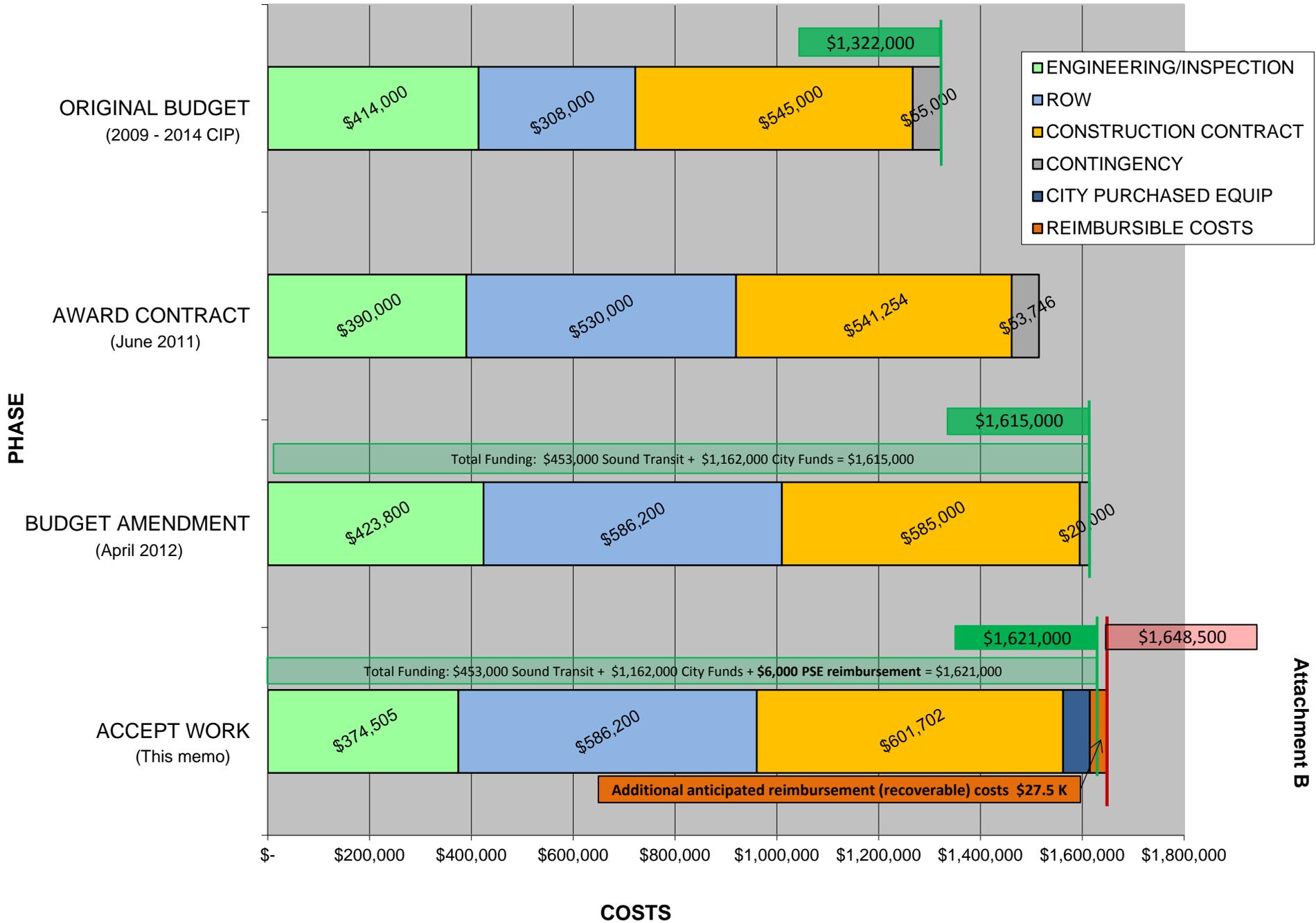
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# NE 68th St / 108th Ave NE Intersection Improvement Project

# NE 68th Street/108th Ave NE Intersection Improvements

## PROJECT BUDGET REPORT



**FISCAL NOTE***CITY OF KIRKLAND*

Source of Request							
Ray Steiger, Public Works Director							
Description of Request							
Request for funding of \$28,000 from Street Improvement Reserve for acceptance of work for the NE 68th Street & 108th Avenue NE Intersection Improvements project (CTR 0085).							
Legality/City Policy Basis							
Fiscal Impact							
One-time use of \$28,000 from Street Improvement Reserve. This reserve is able to fully fund this request.							
Recommended Funding Source(s)							
<i>Reserve</i>	Description	2012 Est End Balance	Prior Auth. 2011-12 Uses	Prior Auth. 2011-12 Additions	Amount Request	Revised 2012 End Balance	2012 Target
	Street Improvement Rsv	1,092,258	68,300	0	28,000	995,958	N/A
	2011-12 Prior Authorized Use of Street Improvement Reserve include: 520 Tolling Traffic Counts (\$5,000), Crosswalk Upgrade Program (\$37,000), and Lakeview Elementary Pedestrian Improvements (\$26,300)						
<i>Revenue/Exp Savings</i>							
<i>Other Source</i>							
Other Information							

Prepared By	Neil Kruse, Senior Financial Analyst	Date	November 14, 2012
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