



CITY OF KIRKLAND
Department of Public Works
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MEMORANDUM

To: David Ramsay, City Manager

From: Ray Steiger, P.E., Interim Public Works Director
Rod Steitzer, P.E., Project Engineer

Date: February 3, 2010

Subject: NE 124th Street/124th Avenue NE Intersection (Phase 1) and
Water Quality Improvements - ACCEPT WORK

RECOMMENDATION:

It is recommended that the City Council accept the NE 124th Street/124th Avenue NE Intersection (Phase 1) and Water Quality Improvements Project (124/124 Phase 1) as constructed by Johansen Excavating, Inc. of Buckley, Washington, and establish the required 45-day lien period.

BACKGROUND DISCUSSION:

The 124/124 Phase 1 improvements were constructed to enhance traffic control, relieve congestion, improve pedestrian safety and advance water quality and surface water management in the area. The specific work elements included road widening, the installation of two additional northbound travel lanes, added bike lanes, new pavement markings, four new signal poles, a new signal cabinet with signal control equipment, a new video traffic detection system, new streetlights, new ADA curb ramps with concrete curbs, gutters, sidewalks, and retaining walls. The road widening and new channelization resulted in two northbound (NB) to westbound left turn lanes, two NB through lanes, one NB to eastbound right turn lane, and two southbound through lanes (Attachment A). The work also included the installation of a 31,000 gallon concrete detention vault with four separate additional surface water quality treatment systems to treat storm water drainage from the surrounding commercial areas prior to discharge into Totem Lake; Totem Lake is the headwater for Juanita Creek.



Road widening with new vehicle and bicycle lanes on the south leg

The 124/124 Phase 1 improvements were the first part of a two-phased construction plan for the intersection. Capacity improvements to this intersection are critical in maintaining concurrency in the Totem Lake sub-area, and this phase of the project included approximately \$700,000 in funding provided by Evergreen Hospital as a condition of their expansion. Design of Phase 2 will begin in 2011.

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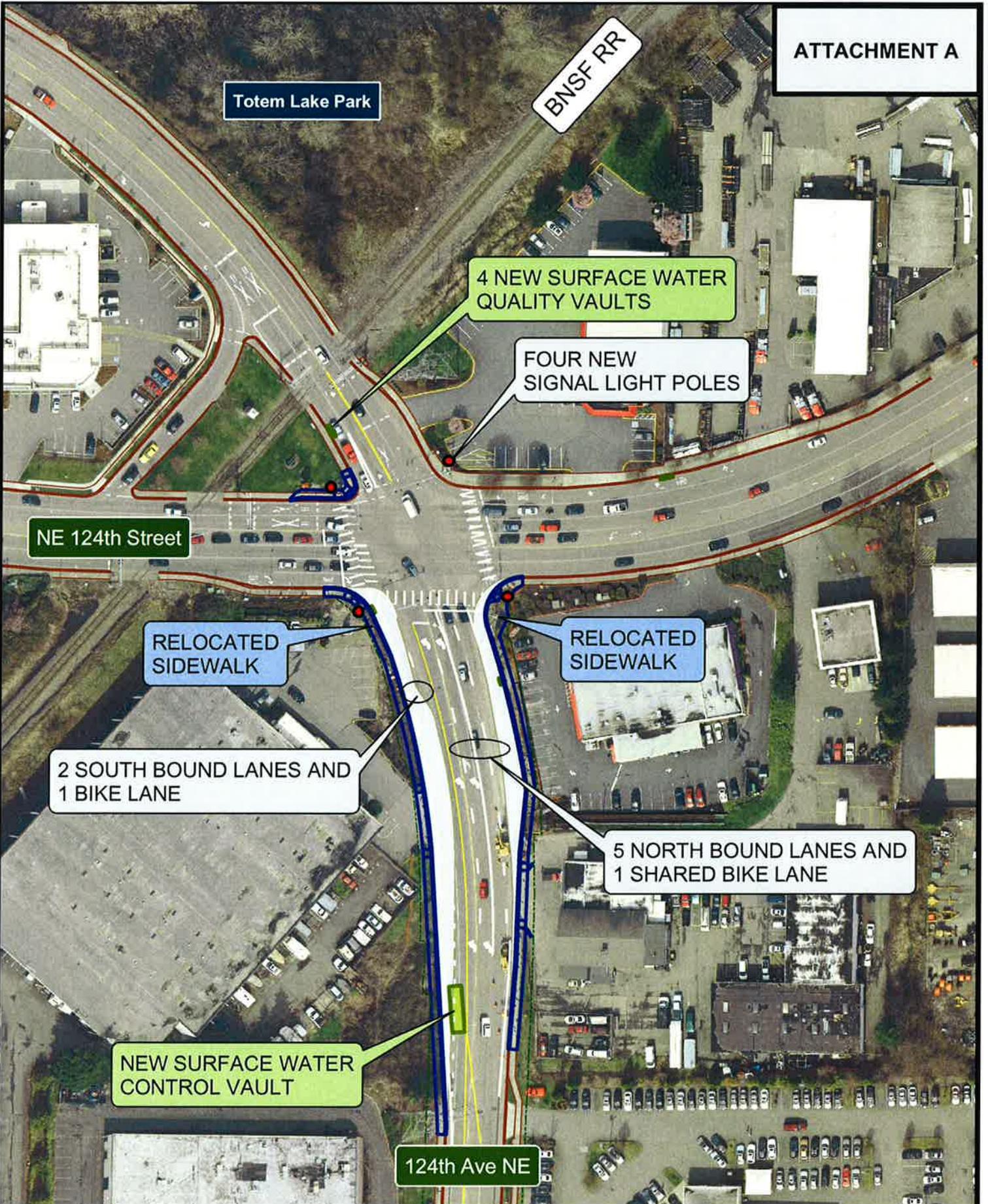
At their meeting of July 1, 2008, Council awarded the construction contract to Johansen Excavating in the amount of \$1,297,747.70. The project was physically complete on October 16, 2009, with payments to the contractor totaling \$1,343,178.64. Included in these payments were four change orders amounting to \$85,689.72. The largest change order (\$70,541) was for relocating a large surface water control vault necessitated by a significant survey error and existing utility conflicts. The survey and design consultant, Parametrix, Bellevue, WA, provided the City with approximately \$90,000 worth of additional services including a revised vault location survey, design, detail drawings, and field support at no extra cost to the City in response to their error.

Total cost to construct the 124/124 Phase 1 Project was \$2,395,481.17, which is significantly below the approved budget of \$3,488,100 (Attachment B). The cost savings are again attributable to the bidding climate and to the economies-of-scale realized through combining the intersection improvements (CTR 0070) with a surface water control and water quality project (CSD 0029). More specifically, CTR 0070 saved approximately \$615,612, while CSD 0029 saved \$477,006; totaling \$1,092,619 (Attachment B). However, due to a funding shortfall in the surface water element of CTR 0070, an additional \$15,126 is needed to close out the project, as outlined in the attached Fiscal Note (Attachment C); remaining funds for both projects will be returned to appropriate funding sources.

Attachments: (3)



The 31,000 gallon concrete detention vault required large equipment and coordination with Seattle City Light. The work was timed to coincide with the power in the overhead lines being turned off in order for a crane to place 7 separate concrete vault sections. The work was done on a Saturday.



Totem Lake Park

BNSF RR

4 NEW SURFACE WATER QUALITY VAULTS

FOUR NEW SIGNAL LIGHT POLES

NE 124th Street

RELOCATED SIDEWALK

RELOCATED SIDEWALK

2 SOUTH BOUND LANES AND 1 BIKE LANE

5 NORTH BOUND LANES AND 1 SHARED BIKE LANE

NEW SURFACE WATER CONTROL VAULT

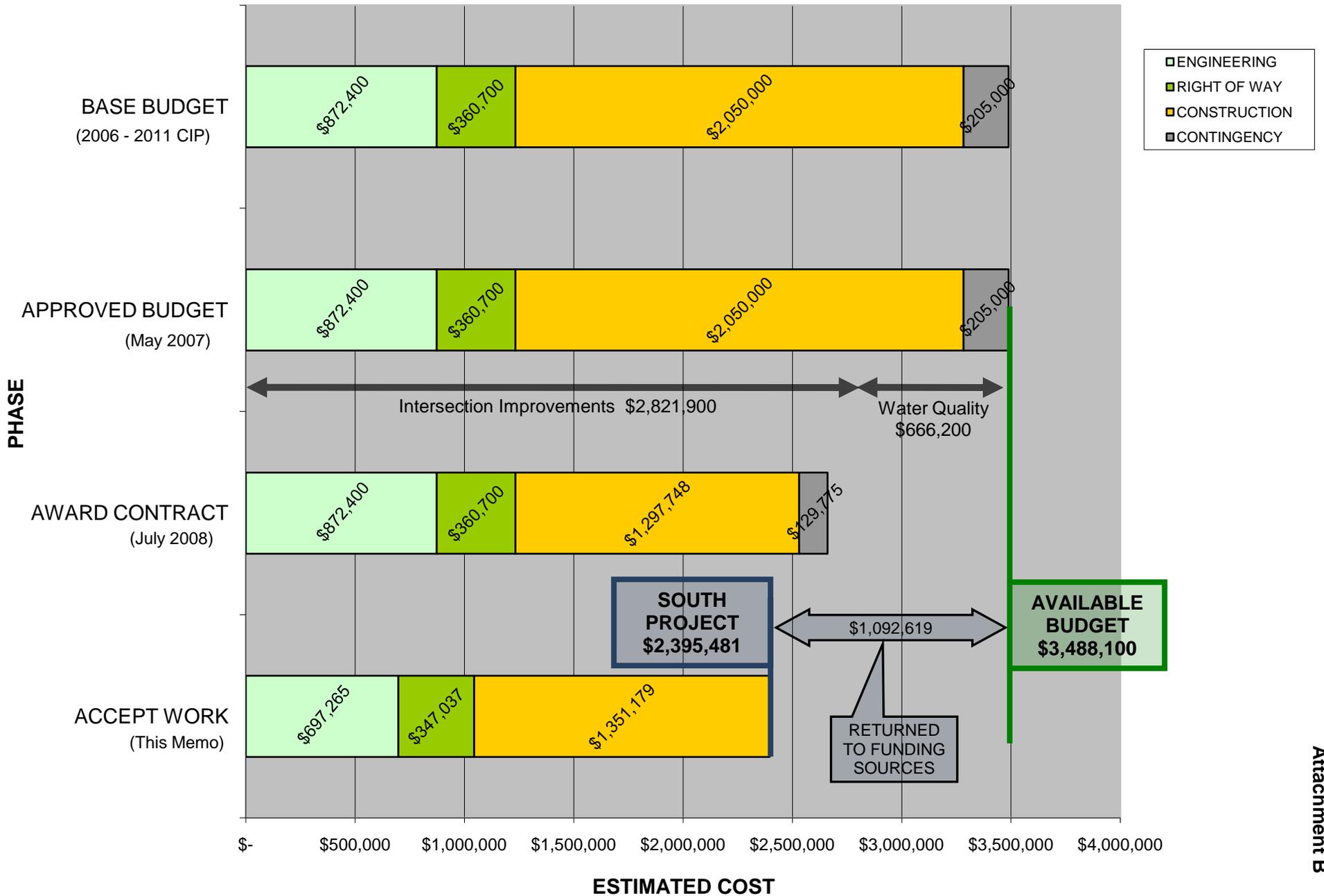
124th Ave NE



Vicinity Map
NE 124th Street/124th Avenue NE
Intersection and Water Quality Improvements

NE 124 STREET / 124 AVENUE NE INTERSECTION AND WATER QUALITY IMPROVEMENTS

PROJECT BUDGET REPORT



FISCAL NOTE

CITY OF KIRKLAND

Source of Request							
Ray Steiger, P.E., Interim Public Works Director							
Description of Request							
Request for additional funding of \$15,126 from the Surface Water Capital Transportation Reserve to close the NE 124th Street/124th Avenue NE Intersection Improvement Project-Surface Water component (C TR 070 423)							
Legality/City Policy Basis							
Fiscal Impact							
One-time use of \$15,126 of the Surface Water Capital Transportation Reserve designated for surface water capital transportation projects. The reserve is fully able to fund this request.							
Recommended Funding Source(s)							
Reserve	Description	2010 Est End Balance	Prior Auth. 2009-10 Uses	Prior Auth. 2009-10 Additions	Amount This Request	Revised 2010 End Balance	2010 Target
	Surface Wtr Transp. Capital Rsv	1,302,179	23,000	0	15,126	1,264,053	N/A
	2009-2010 Prior Authorized Uses of this reserve include: \$23,000 for the Downtown Transit Center Local Funding Request (surface water component)						
Revenue/Exp Savings							
Other Source							
Other Information							

Prepared By	Neil Kruse, Budget Analyst	Date	February 3, 2010
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