



CITY OF KIRKLAND

Department of Public Works

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www.ci.kirkland.wa.us

MEMORANDUM

To: David Ramsay, City Manager

From: Daryl Grigsby, Public Works Director
Ray Steiger, P.E., Capital Projects Manager

Date: May 8, 2008

Subject: CROSSWALK UPGRADE PROGRAM – NE 120TH PLACE AT CASA JUANITA
AWARD CONTRACT AND AUTHORIZE ADDITIONAL FUNDING

RECOMMENDATION:

It is recommended that the City Council award the contract for the Crosswalk Upgrade Program located on NE 120th Place, near the Casa Juanita Apartments, to Dennis R. Craig Construction, Inc. of Redmond, Washington in the contract amount of \$74,145.85. In addition it is recommended that City Council authorize the use of an additional \$35,000 from the REET II reserve fund.

BACKGROUND DISCUSSION:

The purpose of this ongoing program, funded every two years in the Capital Improvement Program, is to install crosswalk improvements at various locations throughout the City. Locations for safety improvements are determined using a nationally recognized ranking system that considers traffic volume, speed limits, and the number of travel lanes. Other factors used in prioritizing the projects include connections in the pedestrian network, spacing between crosswalks on arterials, and the level of pedestrian use, in general and by vulnerable populations such as children and seniors. Crosswalk enhancements that have been done with this program include: Lake Washington Boulevard at NE 45th Street, Central Way at Market Street, NE 70th Street at the South Rose Hill Park, NE 116th Street at McAuliffe Park, NE 124th Street at approximately 108th Ave NE, and others.

This year's project is located on NE 120th Place, north of 98th Ave NE and next to the Casa Juanita Apartments (Attachment A). The scope consists of shifting the location of an existing mid-block crosswalk and installing improvements to increase the safety of the crosswalk. Safety improvements include installing an illuminated double mast arm traffic pole with overhead signs, two new sidewalk ramps meeting the requirements of the Americans with Disabilities Act, and the construction of traffic islands (described below) in the center turn lane.

In order to save money on this year's program, rather than purchase new mast arms for the project, the mast arm poles being utilized are poles previously reclaimed from a Kirkland traffic signal that was upgraded. Additionally, the 2008 project was designed and bid with two alternatives for the traffic islands: Alternate A is the less expensive option that consists of constructing the traffic islands using extruded curb and filling the center of the islands with stamped hot mix asphalt, similar to the photo showing the intersection of Market Street and Central Way (right).



Alternate B is the more expensive option consisting of traffic islands with concrete curb and gutter and the island infill being “Dream Turf”, a synthetic grass-like turf that requires little to no maintenance. The Alternate B curb and gutter is far more durable and would withstand vehicle impacts much better than extruded curb since it is embedded seven inches into the existing pavement – the picture at the right shows an example of a traffic island constructed with concrete curb and gutter.



The Crosswalk Upgrade Project has an approved CIP budget of \$70,000. The contractors on the Shared Small Works Roster, under the category of “Electrical & Communication Construction & Repair:” and/or “Concrete & Masonry Construction & Repair: Concrete-Curbs, Gutters, Sidewalks & Driveways”, were contacted to submit bids as a general contractor.

On April 17, 2007 two bids were received and tabulated with Dennis R. Craig Construction, Inc. being the lowest responsive bidder. The total bid prices are as follows:

Contractor	Alternate A	Alternate B
<i>Engineer's Estimate</i>	<i>\$42,390.00</i>	<i>\$57,255.00</i>
Dennis R. Craig	\$65,320.55	\$74,145.85
Transtech Electric	\$73,524.13	\$82,904.69

With a total project budget of \$70,000 and utilizing \$24,000 for the project design and inspection, there is a projected budget shortfall of approximately \$27,000 with an award of Alternate A and approximately \$35,000 for Alternate B (Attachment B). Due to this projected funding shortfall, Staff has identified three options for moving forward with the Project:

1. Increase the project budget by \$27,000 and award Alternate A (extruded curb and stamped asphalt option)
2. Increase the project budget by \$35,000 and award Alternate B (concrete curb & gutter and Dream Turf option)
3. Reject bids and postpone the construction of the project in order to try to secure additional funding through grant opportunities.

Some of the pros and cons of each option are listed below:

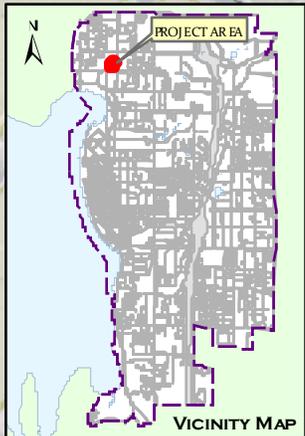
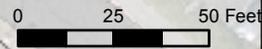
	Option 1	Option 2	Option 3
Pros:	<ul style="list-style-type: none"> • Least expensive option • Completes improvement this summer 	<ul style="list-style-type: none"> • Curb and gutter is embedded in the pavement creating a more durable traffic island. • Most aesthetically pleasing option using synthetic green turf made from recycled tires and low maintenance costs. • Completes improvements this summer 	<ul style="list-style-type: none"> • If grant money can be secured, project will require no additional local funding. • Project is construction ready and would likely compete well
Cons:	<ul style="list-style-type: none"> • Requires additional funding of \$27,000 • Extruded curb is less robust and would require maintenance and repair if struck by vehicles • More “utilitarian” look 	<ul style="list-style-type: none"> • Requires additional funding of \$35,000 • More expensive than Option 1 	<ul style="list-style-type: none"> • No guaranteed grant funding will be awarded to project. • Construction costs will continue to rise while grant applications are reviewed; likely most costly option overall. • Delay in completing the project

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Based on these considerations, Staff recommends Option 2 thereby awarding the Project to Dennis R. Craig Construction, Inc. and increasing the current budget by \$35,000 from REET II reserves to bring the total project budget to \$105,000 (Attachment C).

With Council approval, construction is anticipated to begin in June with substantial completion expected in July.

Attachments: (3)



VICINITY MAP

Casa Juanita Apartments

PROJECT AREA

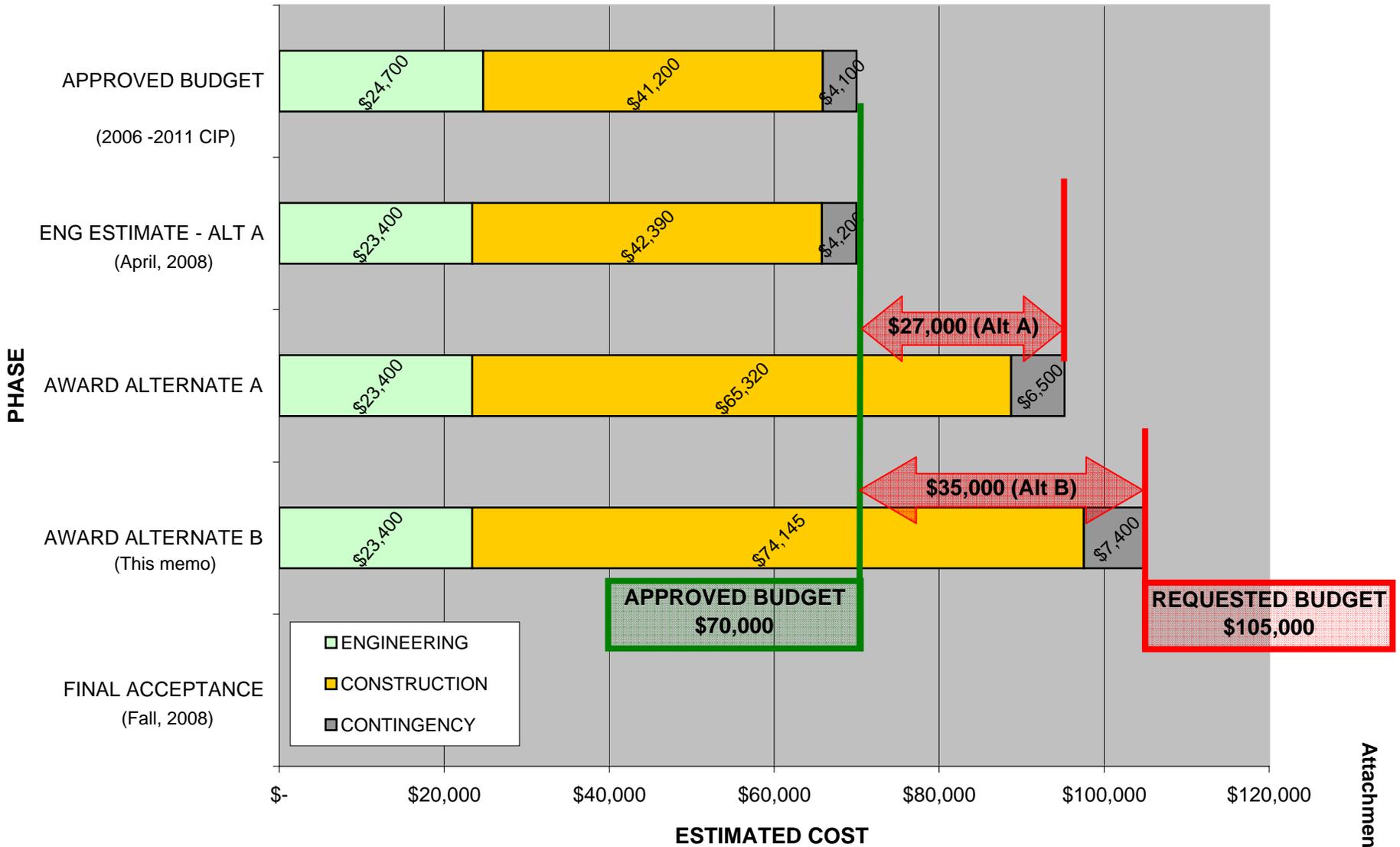
EXISTING CROSSWALK LOCATION

PROPOSED TRAFFIC ISLANDS & DOUBLE MAST ARM LUMINAIRE

NE 120TH PL

2007 CROSSWALK UPGRADE PROJECT

CROSSWALK UPGRADE PROGRAM - 2007 PROJECT BUDGET REPORT



FISCAL NOTE

CITY OF KIRKLAND

Source of Request							
Daryl Grigsby, Public Works Director							
Description of Request							
Request additional funding of \$35,000 from the REET II Reserve for the Crosswalk Upgrade program that has a planned project on NE 120th Place near the Casa Juanita Apartments. Additional funding is required based on the bids received being over the engineer's estimate. The additional \$35,000 will fund bid alternate B that includes concrete curb and gutter with the island infill being Dream Turf instead of stamped asphalt.							
Legality/City Policy Basis							
Fiscal Impact							
One-time use of \$35,000 of the REET II Reserve. The reserve is able to fully fund this request.							
Recommended Funding Source(s)							
Reserve	Description	2008 Est End Balance	Prior Auth. 2007-08 Uses	Prior Auth. 2007-08 Additions	Amount This Request	Revised 2008 End Balance	2008 Target
	REET II Reserve	6,067,898	0	0	35,000	6,032,898	4,959,200
	There are no 2007-08 Prior Authorized Uses of this reserve.						
Revenue/Exp Savings							
Other Source							
Other Information							

Prepared By	Sandi Hines, Financial Planning Manager	Date	May 9, 2008
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