



## CITY OF KIRKLAND

Department of Public Works

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[www.ci.kirkland.wa.us](http://www.ci.kirkland.wa.us)

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### MEMORANDUM

**To:** David Ramsay, City Manager

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

**Date:** September 21, 2006

**Subject:** 105<sup>TH</sup> AVE NE/106<sup>TH</sup> AVE NE WATERMAIN REPLACEMENT - AUTHORIZATION TO BID

#### RECOMMENDATION:

It is recommended that the City Council authorize staff to advertise for contractor bids for the 105th Avenue NE / 106<sup>th</sup> Avenue NE Watermain Replacement Project.

#### BACKGROUND AND DISCUSSION:

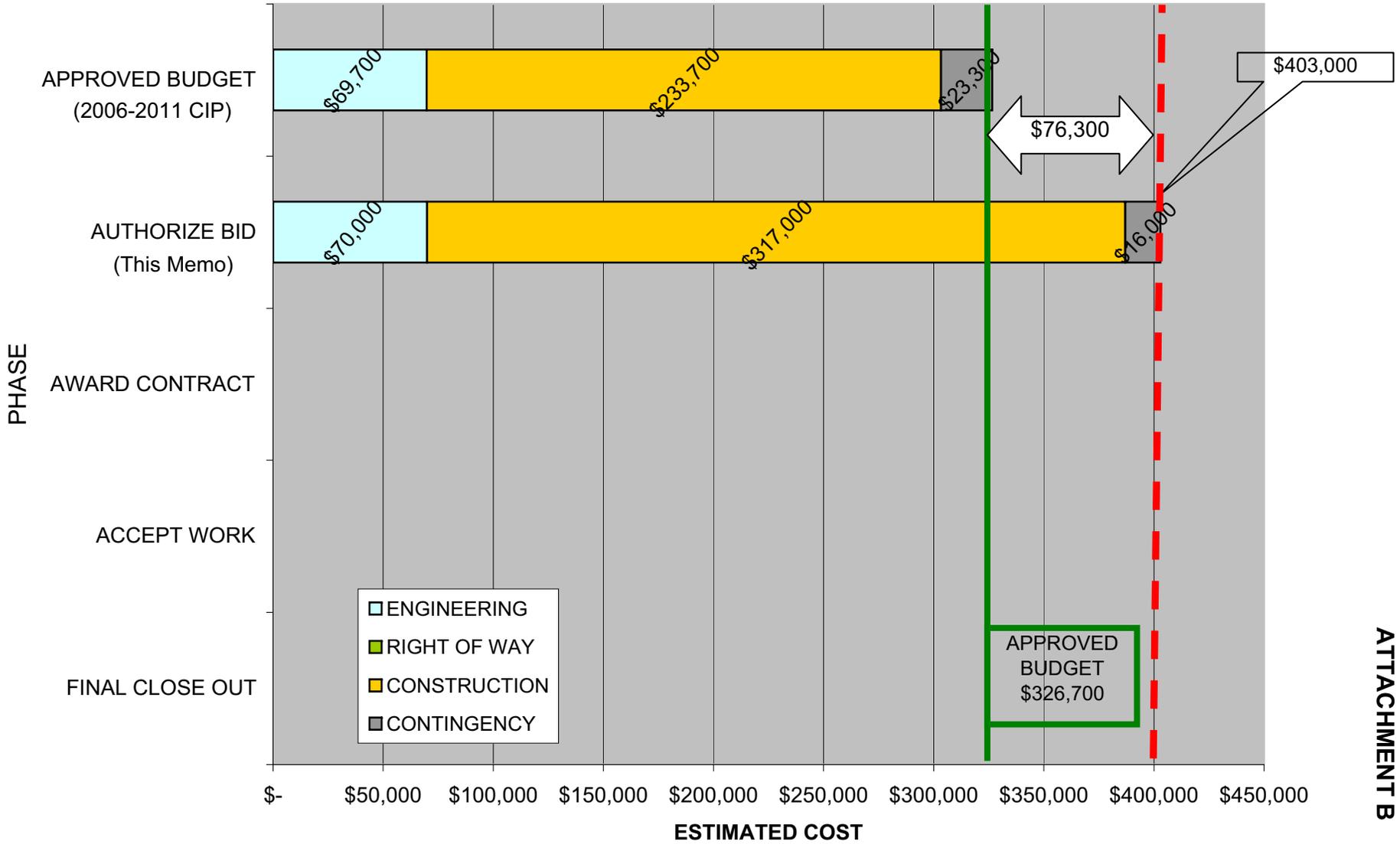
The 105<sup>th</sup> Avenue NE / 106<sup>th</sup> Avenue NE Watermain Project includes the planned replacement of approximately 1,500 lineal feet of AC watermain with 8" ductile iron pipe (Attachment A). The existing AC watermain is susceptible to breaks and is not capable of providing adequate fire flow to the area. The replacement of individual water service lines and fire hydrant connections along the project alignment is also included in the work.

The engineer's estimate for the project is \$317,000, compared to the current CIP construction budget of \$233,700. The resultant is an anticipated construction budget shortfall of \$76,300 (Attachment B). The subject project is the first of only three City water construction projects for 2006 so unit cost data was used from comparable projects for the cities of Bothell and Mercer Island. This data indicates that watermain construction costs have continued to rise with significant increases beginning in 2004 (Attachment C).

The Bothell and Mercer Island projects were each bid in the summer during the height of construction season which, undoubtedly, contributed to even higher construction costs. By putting our 105<sup>th</sup> Avenue NE / 106<sup>th</sup> Avenue NE Watermain Replacement Project out to bid this fall, as a winter construction project, we hope to benefit from lower unit costs and resultant lower general contractor bids. At this time, we are recommending that Council authorize the advertisement for the 105<sup>th</sup> Ave NE / 106<sup>th</sup> Ave NE Watermain Project at their October 3, 2006 meeting with the understanding that staff will report back after the bid opening with options for awarding the Project.



**PROJECT BUDGET REPORT**  
**(105th Avenue NE/106th Avenue NE Watermain Replacement)**  
**WA-0110**



ATTACHMENT B

### Watermain Replacement Cost (8-inch Diameter Pipe)

