



MEMORANDUM

To: Kurt Triplett, City Manager

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

Date: January 26, 2012

Subject: 120th AVENUE NE WATERMAIN REPLACEMENT – APPROVE FUNDING

RECOMMENDATION:

It is recommended that City Council approve the use of Water/Sewer Construction Reserve funds in the amount of \$272,000 to replace an existing watermain within 120th Avenue NE in the South Rose Hill Neighborhood.

BACKGROUND DISCUSSION:

On November 14, 2011, Kirkland water division maintenance employees reported to the scene of a watermain break on 120th Avenue NE, south of its intersection with NE 70th Street (Attachment A). The watermain broke at 10:30 p.m., and City crews worked during the night and throughout the following day to repair the main and restore 120th Avenue NE into a drivable condition. City crews also spent considerable time cleaning mud and debris from nearby residences directly affected by the watermain break; to date, no property damage claims have been received, as City crews did an outstanding job of minimizing impacts to nearby residents and cleaning up the surrounding area. It is estimated that approximately 120,000 gallons of water were lost; the total cost to return the watermain and surrounding area to usable service was approximately \$7,800.

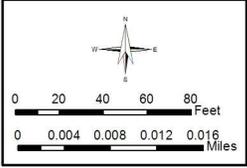
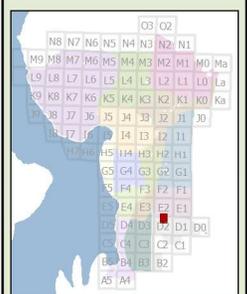
The existing watermain is 6" diameter asbestos cement (AC) pipe that is nearly 50-years old. The current Comprehensive Water System Plan identifies this section of watermain as one needing an upgrade to 8" diameter ductile iron watermain with a "yet-to-be-determined" date in the future. Given the recent break and the current patched condition of the residential street however, staff is recommending City Council approve funding for replacement of the existing watermain during the 2012 construction season. Due to the severity of the damage caused by the watermain break, staff is also recommending a full reconstruction and resurfacing of approximately 400-feet of 120th Avenue NE that was damaged by gushing water. The estimated total project cost is \$272,000, including \$130,000 for the watermain replacement, \$51,000 for the reconstruction and resurfacing of the roadway, a 10% construction contingency (\$18,000), and \$73,000 in engineering, public outreach and construction administration costs (Attachment B).

With City Council's approval of the use of funding from the Water/Sewer Construction Reserve (Attachment C), the project's design efforts will begin immediately. Once the design is complete, staff will advertise for contractor bids and return to City Council with the bid results and a project funding update prior to making a recommendation for contract award. To take advantage of the best possible pricing for restoring the paved surface, staff will include the street as a separate schedule within the Annual Street Overlay Program, using the approved Water/Sewer Construction Reserve funds to repay the Overlay Program.

Attachments: (3)

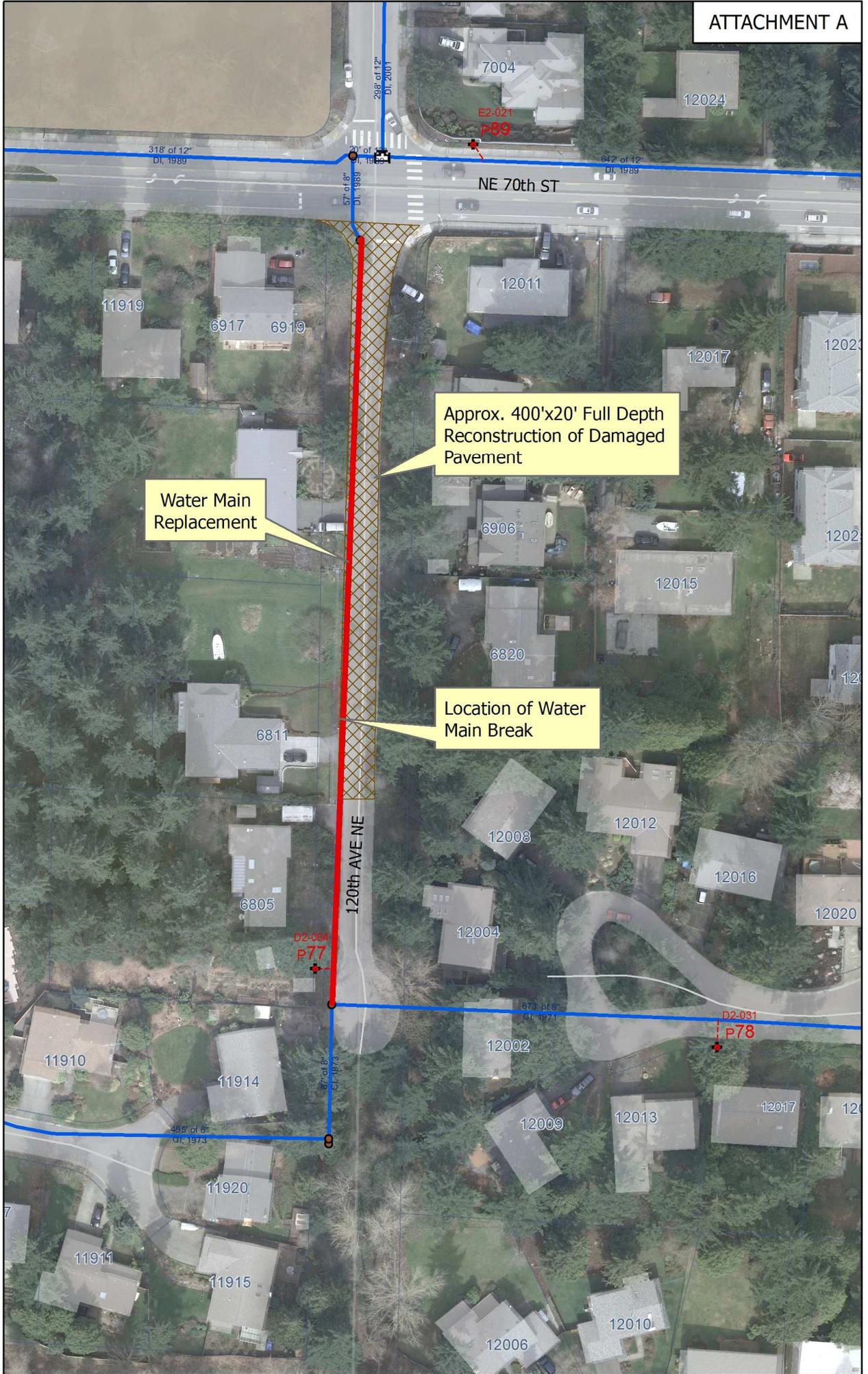
City of Kirkland 120th Ave NE Water Main Replacement Project

- Hydrants
- Existing Water Main
- Buildings
- Road
- Overpass
- Parks
- Schools
- Parcels
- Railroads
- Major Streets
- Streets
- City Limits
- COK Grid
- Lakes



Produced by the City of Kirkland. © 2012, the City of Kirkland, all rights reserved. No warranties of any sort, including but not limited to accuracy, fitness or merchantability, accompany this product.

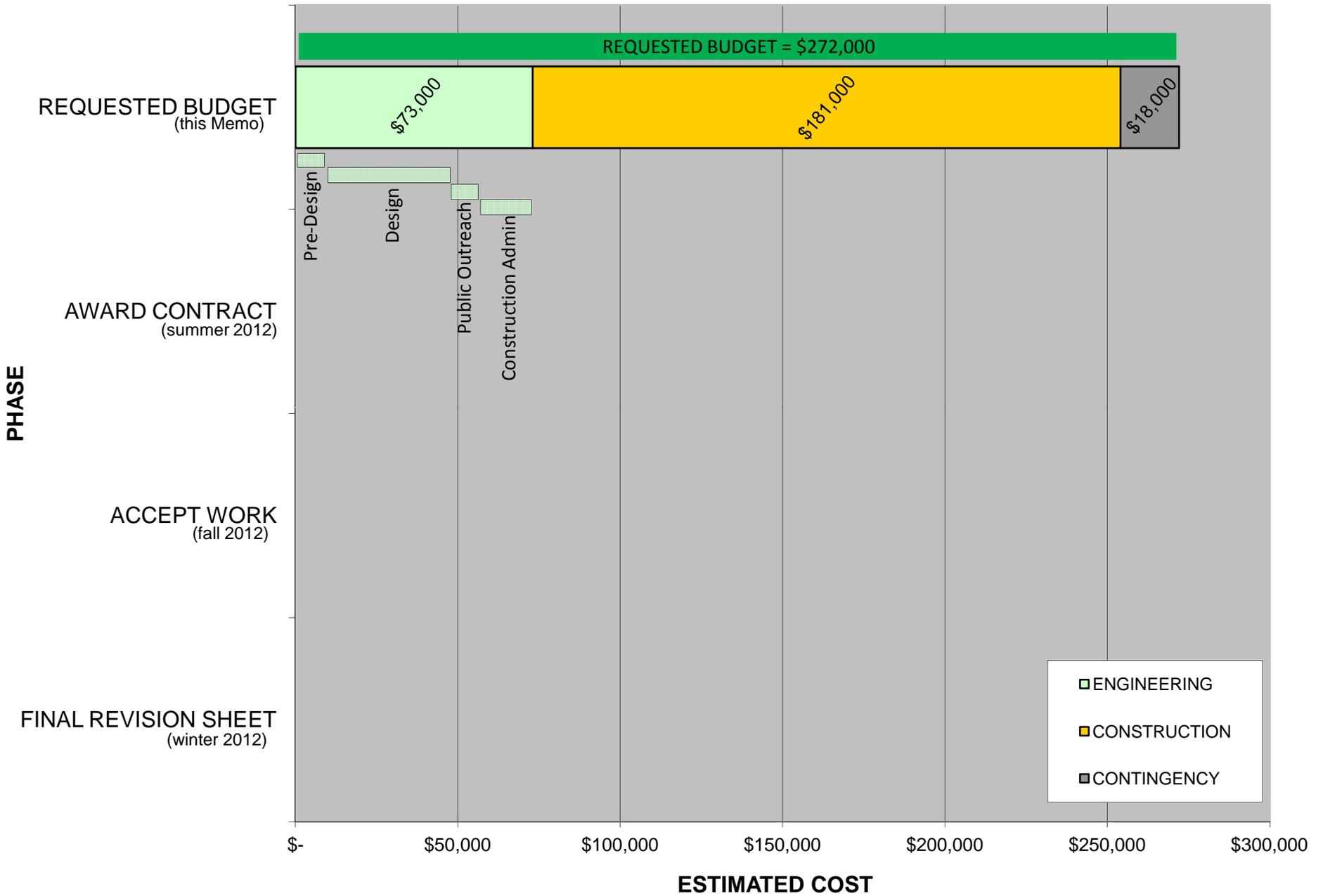
Author:
Name: Attach A - Vicinity MapV2
Date Saved: 1/25/2012 12:38:53 PM



120th Avenue NE Watermain Replacement
CWA 0144 000

Attachment B

Project Budget Report



FISCAL NOTE

Source of Request							
Ray Steiger, Public Work Director							
Description of Request							
Request for funding of \$272,000 from the Water/Sewer Capital Reserve to cover expected costs to replace the broken watermain and repair road damage on 120th Ave NE/NE 70th Street. Staff recommends replacing the watermain since it is almost 50 years old. The project will include repairing the roadway damaged by the watermain break.							
Legality/City Policy Basis							
Fiscal Impact							
One-time use of \$272,000 of the Water/Sewer Capital Reserve. The reserve is able to fully fund this request.							
Recommended Funding Source(s)							
Reserve	Description	2012 Est End Balance	Prior Auth. 2011-12 Uses	Prior Auth. 2011-12 Additions	Amount This Request	Revised 2012 End Balance	2012 Target
		5,964,079	100,000	0	272,000	5,592,079	N/A
	2011-12 Prior Authorized Use of this reserve: \$100,000 for City participation in NE 116th Street Interchange WSDOT project						
Revenue/Exp Savings							
Other Source							
Other Information							

Prepared By	Neil Kruse, Senior Financial Analyst	Date	January 23, 2012
-------------	--------------------------------------	------	------------------