



CITY OF KIRKLAND
Department of Public Works
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MEMORANDUM

To: Kurt Triplett, City Manager

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

Date: May 5, 2011

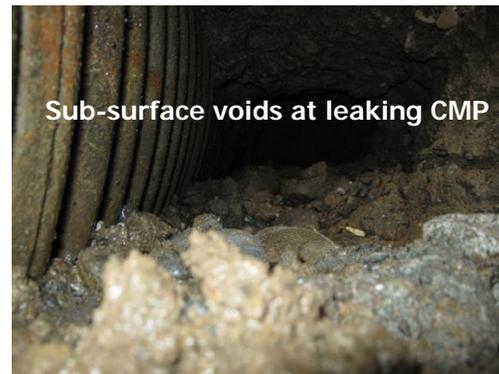
Subject: 2011 ANNUAL REPLACEMENT OF AGING INFRASTRUCTURE
BILLY CREEK CULVERT IMPROVEMENT PROJECT – AWARD CONTRACT

RECOMMENDATION:

It is recommended that City Council award the construction contract to Award Construction, Inc., Ferndale, Washington, in the amount of \$128,020.01, for Schedule A only, on the 2011 Annual Replacement of Aging Infrastructure -- Billy Creek Culvert Improvement Project.

BACKGROUND DISCUSSION:

This Project consists of improvements to an existing 30-inch corrugated metal pipe (CMP) that is showing significant structural deficiencies and has surpassed its useful life expectancy. The Project is located in the North Juanita Neighborhood where Billy Creek, a tributary of Juanita Creek, enters the existing CMP near NE 125th Place and 95th Avenue NE (Attachment A). The flow of Billy Creek continues through a series of culverts and small areas of open channel before out falling into Juanita Creek, near the intersection of NE 124th Street and 98th Ave NE (Attachment A).



The entire Project consists of a combination of trenching (open cut) and culvert replacement with a process of culvert repair using a plastic culvert liner (slip-lining) within the existing CMP. The Project was bid with three separate schedules in the event that contractor bid prices exceeded the Project's budget. Because of work within a regulated stream, State permitting was required. A condition of a State Department of Fish and Wildlife Hydraulic Project Approval (HPA) was that the Project also include stream enhancement mitigation for those areas of the open cut pipe replacement.

These fish and habitat enhancements include removing pipe or "day-lighting" approximately 25-feet of stream that currently flows within the existing CMP. The stream enhancements also include the placement of rock check-dams in the stream channel for erosion protection and sedimentation control, the removal invasive vegetation and the planting of native trees and shrubs within the stream buffer. All work is to be performed during the HPA approved "fish-window" (a time of low fish population in the stream) of July 1st through August 31st.

With an engineer's estimate of \$259,000 for all three schedules, staff advertised for contractor bids on April 11th followed by the bid opening on May 2nd, 2011; two bids were received with the lowest responsive bidder submitting a total bid price that is approximately \$41,700 over the engineer's estimate, as shown below:

Contractor (with tax)	Schedule A	Schedule B	Schedule C	Total Bid
<i>Engineer's Estimate</i>	\$122,638.91	\$49,494.00	\$86,610.12	\$258,743.03
ACI (Award Construction, Inc.)	\$128,020.01	\$68,167.04	\$104,245.92	\$300,432.96
Kamins Construction	\$141,615.59	\$78,472.12	\$110,376.21	\$330,463.93

The Annual Replacement of Aging/Failing Infrastructure program receives \$200,000 per year in funding. This Project uses a combination of remaining funds from 2010 (\$34,000) and 2011 funds (\$200,000) resulting in a total available budget to \$234,000. Based on the approved project budget, a number of options were considered (Attachment B).

OPTIONS:

- A. Award Schedule A: The scope of Schedule A includes the replacement of 140-feet of pipe at the NE 125th Place cul-de-sac, 60-feet of slip lining and 330-feet of stream channel enhancements (identified previously). Including other Project costs for design, construction management/inspection, mitigation area monitoring, and sensitive area plant maintenance, there is sufficient budget available for this option. This is staff's recommendation.
- B. Award Schedules A *plus* B: The scope of Schedule B adds 166-feet of pipe improvement by slip-lining however this would require a budget increase of \$50,000 from the surface water construction reserve.
- C. Award Schedules A , B, *and* C: The scope of Schedule C add another 395-feet of pipe improvement, also by slip-lining however this option would require a budget increase of \$164,000 from the surface water construction reserve (Attachment C).

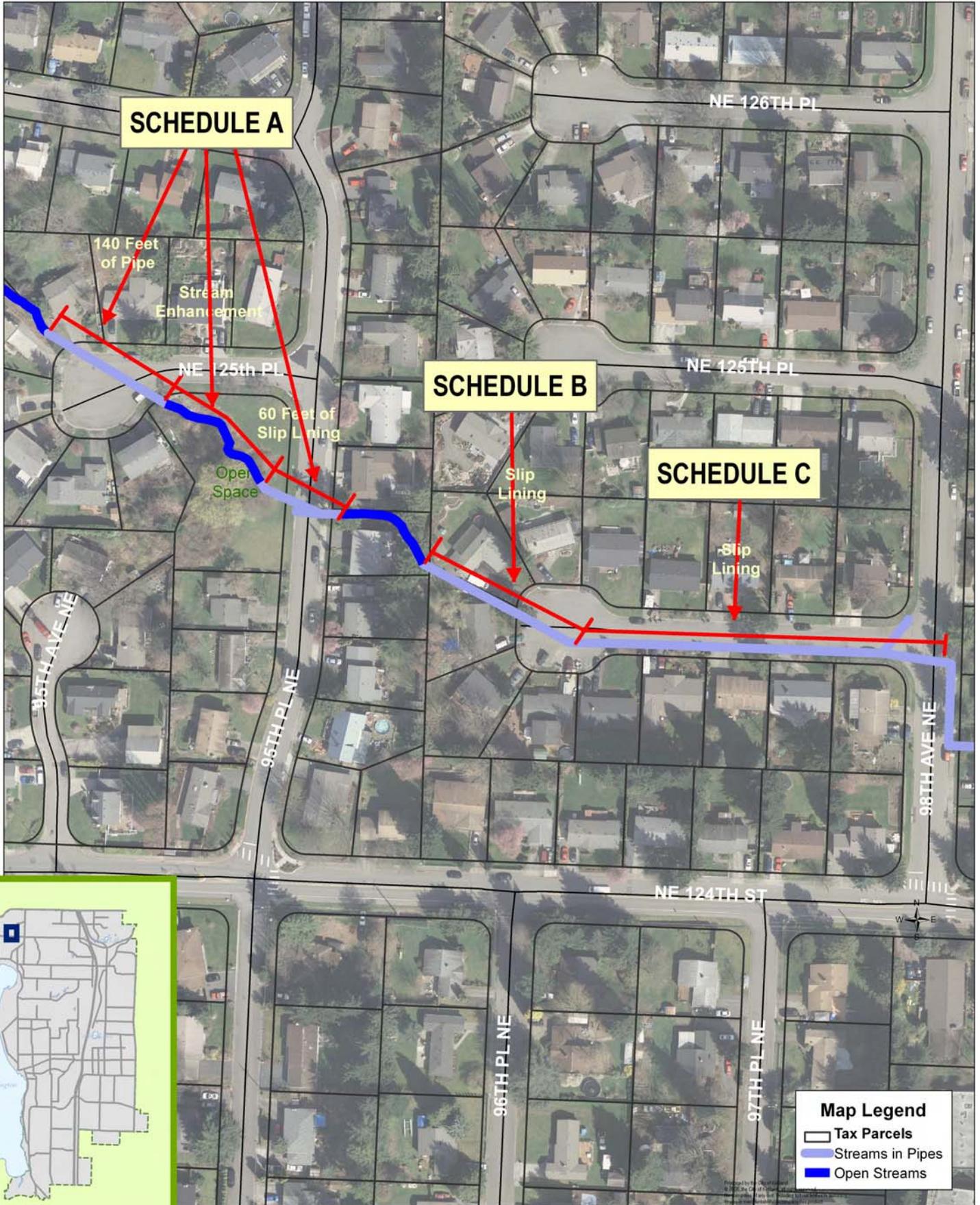
All schedules are required to comply with conditions of the HPA, however, all HPA mitigation is performed under Schedule A. The work zone for Schedule A is also the primary location of the majority of all previous maintenance needs, including CMP and roadway sinkhole repair (see pictures above). The work covered under Schedules B and C is also needed, as the CMP is the same age as that in the Schedule A work zone. Based on maintenance records, however, the areas covered by Schedule B and C have required less maintenance and can reasonably be deferred until the next annual program. Therefore, it is staff's recommendation that City Council award Schedule A only. With the design complete, the remaining two schedules can be re-bid under the 2012 Replacement of Aging Infrastructure Project. By awarding Schedule A the 2011 budget remains unchanged.

With City Council's award of the construction contract, work will begin in July and be complete by the end of August, 2011. In advance of construction Public Works staff will notify adjacent property owners through contacts with the North Juanita Neighborhood Association. Staff will also send a construction informational mailer directly to nearby residents providing Project timelines and pertinent contact information.

Attachments: (3)

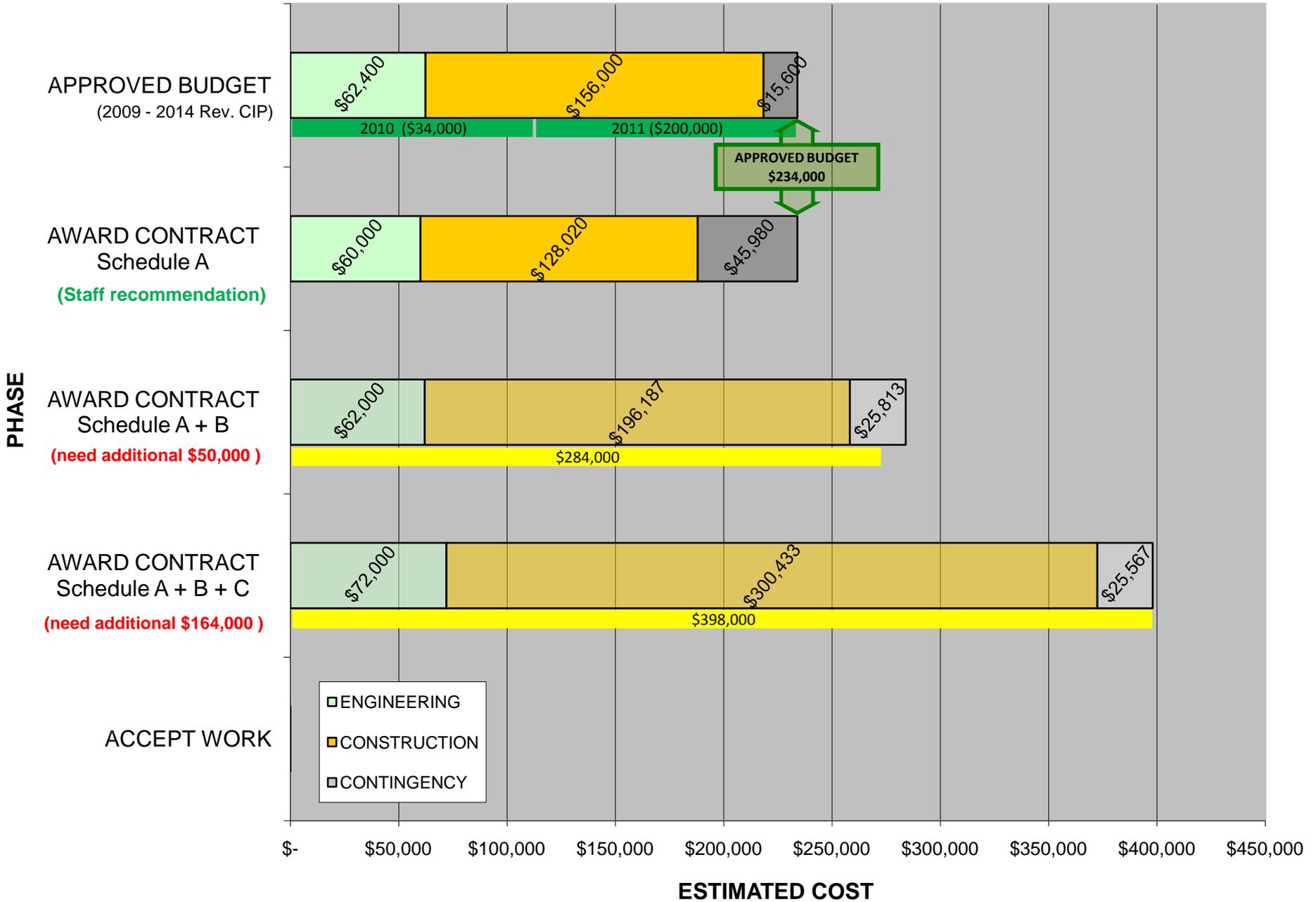


2011 Replacement of Aging Infrastructure CSD-1147 Billy Creek Culvert Slip Lining Vicinity Map



2011 Replacement of Aging Infrastructure Billy Creek Culvert Slip Lining Project (CSD-1147)

Project Budget Report



FISCAL NOTE

Source of Request

Ray Steiger, Interim Public Works Director

Description of Request

Request for funding of \$164,000 from the Surface Water Construction Reserve for the Billy Creek Culvert Improvement Project. Additional funding of \$200,000 is available from the 2011 Surface Water Annual Replacement of Aging/Failing Infrastructure project and \$34,000 remaining from the 2010 Annual Replacement of Aging/Failing Infrastructure project. Total estimated project cost is \$398,000.

Legality/City Policy Basis

Fiscal Impact

One-time use of \$164,000 of the Surface Water Construction Reserve. The reserve is able to fully fund this request.

Recommended Funding Source(s)

	Description	2012 Est End Balance	Prior Auth. 2011-12 Uses	Prior Auth. 2011-12 Additions	Amount This Request	Revised 2012 End Balance	2012 Target
Reserve	Surface Water Construction Rsv.	3,376,431	0	0	164,000	3,212,431	N/A
	There are no prior 2011-12 Authorized Uses of the Surface Water Construction Reserve						
Revenue/Exp Savings							
Other Source							

Other Information

Prepared By	Neil Kruse, Senior Financial Analyst	Date	May 4, 2011
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