



TO: Board of Contracts and Awards
FROM: Michael P. Slevin III, P.E., Director, Environmental Services *MPS*
Geoffrey M. Smyth, P.E., Division Manager, Science & Engineering
COPY: City Council, City Manager, City Clerk, SBE Coordinator, LEAP Coordinator, Joe Parris, Finance/Purchasing, and Lance Bunch, Project Manager
SUBJECT: Central Treatment Plant Flood Protection Project, Request for Bids Specification No. ES13-0557F – April 1, 2014
DATE: March 18, 2014

SUMMARY:

The Environmental Services Department recommends a contract be awarded to low bidder IMCO General Construction, Inc., Ferndale, WA, for construction of the Central Treatment Plant (CTP) Flood Protection Project. The contract amount reflects a total award of \$5,050,775, plus applicable sales tax, plus a 20% contingency, for a cumulative amount of \$6,060,930.00, plus applicable sales tax.

This project has been identified by the Pierce County Flood Control Zone District as a capital project that will be partially funded by the District. The District has agreed to provide up to \$6,000,000 in capital funding for this project, to be paid to the City in \$1,000,000 annual instalments over a six year period, beginning in 2014.

STRATEGIC POLICY PRIORITY:

- Foster neighborhood, community, and economic development vitality and sustainability.

This project will result in significantly increasing the current level of flood protection at the CTP. Major flooding at this critical facility would have numerous negative sustainability related impacts, including untreated wastewater entering Commencement Bay.

BACKGROUND:

ISSUE: The CTP is located on the west bank of the Puyallup River in the Tacoma tideflats area. The location of the CTP places it within the Puyallup River floodplain. The floodplain is protected from routine flooding by a series of levees constructed by the U.S. Army Corps of Engineers, including a levee on the northeastern side of the CTP that separates the plant from the Puyallup River. Despite the existing levee system the CTP is still at risk from flooding. This is primarily because the bed of the river has accumulated sediment over the years reducing the capacity of the river to move flood waters downstream, as well as the potential for higher flows due to increased frequency of storm events.

In early January 2009, the Tacoma area experienced severe wet weather conditions, which led to very high water levels in the Puyallup River. These conditions were severe enough to require sandbagging operations at the CTP to be initiated. While in the end, actual flooding at the CTP was avoided, this storm event was a reminder of the vulnerability of the CTP to flooding events. It was also a reminder that it would be nearly impossible to fully protect the CTP from a severe flood event via the use of temporary sandbags. This was the second close call flooding event experienced since the mid-1990s at the CTP.

These circumstances prompted the Environmental Services Department to design and construct a capital project that would provide reasonable protection of the entire CTP from flooding during extreme wet weather events. This project will provide for the construction of a floodwall, varying from approximately four to seven feet in height above ground, around the currently unprotected perimeter of the CTP. In



addition, the project would provide reasonable protection from the risk of flooding from the existing 30-inch diameter surface water pipe that is currently beneath the CTP and carries surface water runoff from approximately 200 acres in the immediate vicinity of the plant.

ALTERNATIVES: During the predesign phase of the project, Environmental Services carefully evaluated alternatives to provide an increased level of flood protection at the CTP. These alternatives included evaluation of earth berm dikes, cement concrete flood walls, steel sheet pile flood walls, and also a do nothing alternative. Due to the extreme consequences if this facility were to flood and the challenging subsurface geotechnical conditions at this site, the steel sheet pile based flood wall option was deemed to be the best overall solution.

COMPETITIVE SOLICITATION: Request for Bids Specification No. ES13-0557F was opened March 11, 2014. The City notified three contractors of the upcoming project and the project was advertised in the Tacoma Daily Index and the Seattle Daily Journal of Commerce, in addition to being listed on the City’s Purchasing website. Seven submittals were received, as summarized in the table below.

<u>Respondent</u>	<u>Location</u> <i>(city and state)</i>	<u>Submittal Amount</u> <i>(plus sales tax)</i>	<u>Evaluated Submittal</u> <i>(plus sales tax)</i>
IMCO General Construction, Inc.	Ferndale, WA	\$5,050,775.00	\$4,847,175.00
Rognlins, Inc.	Aberdeen, WA	\$5,216,625.00	\$5,158,176.82
Quigg Bros., Inc.	Aberdeen, WA	\$5,544,225.00	\$5,544,225.00
Tapani, Inc.	Battle Ground, WA	\$5,937,000.00	\$5,862,458.95
Orion Marine Contractors, Inc.	Houston, TX	\$5,938,500.00	\$5,786,825.08
Massana Construction, Inc.	Tyrone, GA	\$6,660,500.00	\$6,584,668.23
James W Fowler Co.	Dallas, OR	\$6,815,000.00	\$6,702,681.10

Pre-bid Estimate: \$6,425,635.00 plus applicable sales tax.

The recommended award is approximately 21 percent below the pre-bid estimate.

CONTRACT HISTORY: New contract.

SUSTAINABILITY: This project will: help avoid the potential discharge of hundreds of millions of gallons or more of untreated wastewater that would overflow into Commencement Bay if severe flooding were to occur at the CTP; significantly reduce the risk of loss of extensive infrastructure, and the replacement that would be necessary, in the event of severe flooding; and significantly reduce the staff time necessary for implementation of temporary flood protection measures.

SBE/LEAP COMPLIANCE: The recommended contractor is in compliance with the Small Business Enterprise (SBE) Regulation general requirements per memorandum dated March 12, 2014. The SBE goal for this project is 15 percent. The SBE participation level of IMCO General Construction, Inc., the recommended contractor with the lowest evaluated bid, is 12.09 percent. The Local Employment and Apprenticeship Training Program (LEAP) goal is 3,600 hours.

RECOMMENDATION:

The Environmental Services Department recommends a contract be awarded to IMCO General Construction, Inc. for the CTP Flood Protection Project.



FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME ¹	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT ²
ES Wastewater Fund 4300	ENV-04015-01	5310100	\$6,636,718.35
TOTAL			\$6,636,718.35

¹ General Fund: Include Department

² Including Sales Tax

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT ²
ES Wastewater Fund 4300	ENV-04100-FS-AD	4300020	\$5,636,718.35
Pierce County Flood Control Zone District	ENV-04015-FS-AD-05	6371500	\$1,000,000.00
TOTAL			\$6,636,718.35

² Total Includes Sales Tax

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$5,309,374.68

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes