



REPORT TO COUNCIL

City of Sacramento

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Consent
February 19, 2008

**Honorable Mayor and
Members of the City Council**

**Title: Reconstruction of Sumps 79, 134, 135, & 136
(PN: XI86, X14002000).**

Location/Council District: 1700 Fianza Avenue (D-3); 817 Shoreside Drive, 11 Tidewater Court, and 7433 Windbridge Drive (D-7)

Recommendation: Adopt a **Resolution:** 1) Approving the contract plans and specifications for the project and awarding the contract to BRC Construction for an amount not to exceed \$882,000; 2) Defunding CIP project numbers XI01 (X14000700), XI41 (X14001200), and XI51 (X14001400) by transferring all incurred costs and remaining CIP fund balances to CIP project number XI86 (X14002000); and 3) Transferring the amounts of \$137,000 from CIP project XB16 (X14000100) and \$225,000 from CIP project XN40 (X14010018) to CIP project number XI86 (X14002000).

Contact: David L. Brent, Engineering Manager, 808-1420; Rick Batha, Supervising Engineer, 808-1448.

Presenters: Not applicable

Department: Department of Utilities

Division: Engineering Services

Organization No: 3332

Description/Analysis

Issue: Sumps 79, 134, 135, and 136 are sewer lift stations operated by the City. Each sump has two centrifugal dry pit pumps that are expensive to maintain and are at the ends of their useful lives. These facilities are necessary to provide reliable sewer service to the adjacent neighborhoods. The Department of Utilities has determined that these facilities should be upgraded with new submersible type pumps.

Policy Considerations: The requested action is in conformance with City Code Section 3.60, Articles I and III, which provide that the City Council may award competitively bid contracts to the lowest responsible bidder. This report's recommendation is consistent with the City's Strategic Plan goals of improving and expanding public safety.

Environmental Considerations: The planned construction is exempt from CEQA under Section 15301(b) of the CEQA Guidelines (minor alteration of utility facilities involving no expansion of use). A notice of categorical exemption will be filed with the County Clerk after City Council award of the project.

Rationale for Recommendation: Each facility will be outfitted with new submersible type pumps to improve their operation and reduce maintenance. The submersible pumps will be mounted on guiderails which allow the pumps to be pulled out of the sewage and up to the ground surface for maintenance. The existing dry pit centrifugal pumps are at the end of their useful lives, require confined space entry for maintenance, and they are prone to plugging from solids and rags in the flow stream. Three of the four sumps have buried steel pump rooms susceptible to corrosion. Due to their impeller configuration, the new submersible pumps will pass rags and solids that would typically plug the existing pumps. The new facilities will also be fitted with high pressure washdown hoses to facilitate grease removal, which will make them easier to maintain.

Financial Considerations: Reconstruction work is similar for each sump, and there are economies of scale to awarding the work as one contract. Estimated total project cost for all four sumps is \$1,172,000, including the construction contract cost of \$882,000. The existing combined budget for the four sumps is \$810,000 (\$200,000 was budgeted for each except \$210,000 was budgeted for Sump 79). The existing combined budget is insufficient for project completion. It is recommended that the existing separate CIP's for Sumps 79, 135, & 136 be de-funded by rolling all costs and fund balances into the existing CIP for Sump 134 (XI86), so that separate costs do not need to be tracked for each sump, and a total of \$362,000 in sewer rehab funds (\$137,000 from XB16 and \$225,000 from XN40, both fund 414 projects) be transferred to the combined Reconstruction of Sumps 79, 134, 135, & 136 Project (PN: XI86, fund 414).

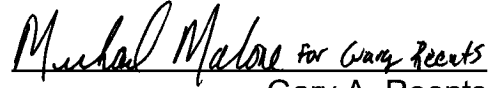
Emerging Small Business Development (ESBD): This project included a participation goal of 20% for emerging and small business enterprises as required by Ordinance 99-007 and Resolution 99-055 relating to ESBD participation goals and policies, adopted by City Council on February 9, 1999. The lowest responsive bidder, BRC Construction, exceeded the ESBE goals with a participation level of 91.25%.

Respectfully Submitted by:



David L. Brent
Engineering Manager

Approved by:



Gary A. Reents
Director of Utilities

Recommendation Approved:



Ray Kerridge
City Manager

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Attachment 1**Background**

Sumps 79, 134, 135, & 136 are sanitary sewer lift stations operated by the Dept. of Utilities. Construction of each occurred around 1960, 1978, 1979, & 1979, respectively. Sump 79 was acquired from the Hagginwood Sanitary District, and the other three were constructed as assessment district projects. Each is in a fully developed neighborhood.

Due to age and configuration of the pumping equipment, each sump is difficult to maintain. Each has centrifugal pumps mounted in a separate 'dry', below grade pump room with ancillary lights, exhaust fans, dewatering pumps, and dehumidifiers. This ancillary equipment requires electricity to operate and requires additional maintenance not required with submersible pumps. Three of the four pump rooms are actually buried steel fabrications below the groundwater level that are very susceptible to corrosion. Groundwater flooding the pump rooms could short out and ruin the existing pump motors.

Existing pump rooms are confined space environments. Rather than rebuild the aging facilities, the Department seeks to reconfigure the sumps with submersible pumps mounted in a wetwell manhole. Existing manholes will be converted to wetwells at three sites. Sump 79 will require construction of a new wetwell. Each sump will be outfitted with a new washdown hose cabinet, permanent bypass connection, and each wetwell will be coated to prevent long-term concrete degradation. Reconstruction will allow the corroding pump rooms and ancillary underground equipment to be abandoned, and will provide newer, more reliable, and easier to maintain facilities. With submersible pumps, they can be hoisted out of the sewage and brought to the ground surface for maintenance. The new pumps are also much less prone to plugging off with solids and rags that shutdown the existing pumps.

Six bids were opened by the City Clerk on January 23, 2008, and are summarized below:

Contractor	Bid Amount
BRC Construction	\$882,000.00
Berkeley Engineering	\$888,887.00
JR Sharp Construction	\$989,834.00
Sierra National Construction	\$1,022,000.00
Clyde Stegall Construction	\$1,044,794.00
Pacific Infrastructure	\$1,088,000.00

The engineer's estimate was \$840,000. Department staff recommends that City Council accept the low bid of \$882,000 from BRC Construction and transfer funds for completion of this project.

Attachment 3

RESOLUTION NO.

Adopted by the Sacramento City Council

AWARD A CONSTRUCTION CONTRACT AND TRANSFER FUNDS FOR THE RECONSTRUCTION OF SUMPS 79, 134, 135, & 136 (PN: XI86, X14002000)

BACKGROUND

- A. Reconstruction of Sumps 79, 134, 135, & 136 will upgrade the pumping equipment, improve reliability, and reduce maintenance costs at these sewer lift stations.
- B. The Reconstruction project was advertised for bidding, bids were received on January 23, 2008, and BRC Construction was the lowest responsible bidder.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

- Section 1. The contract plans and specifications for the Reconstruction of Sumps 79, 134, 135, & 136 Project are approved, and the contract is awarded to BRC Construction for an amount not to exceed \$882,000.
- Section 2. CIP projects XI41, XI51, & XI01 for Sumps 79, 135, and 136 respectively, are defunded and those fund balances and incurred costs are transferred to CIP XI86 (X14002000, fund 6006).
- Section 3. \$137,000 is transferred from the sewer system rehabilitation parent project PN: XB16, (X14000100, fund 6006) and \$225,000 is transferred from the 12th & 13th Ave sewer rehabilitation project PN: XN40 (X14010018, fund 6006) to the combined reconstruction project budget PN: XI86 (X14002000, fund 6006).