



STEERING COMMITTEE

Agenda Report

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File #: 2023-3187

Agenda Date: 2/26/2025

Agenda Item No: 4.

FROM: Robert Thompson, General Manager
Originator: Mike Dorman, Director of Engineering

SUBJECT:

BAY BRIDGE PUMP STATION REPLACEMENT, PROJECT NO. 5-67

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve a Professional Construction Services Agreement with Arcadis U.S., Inc. to provide construction support services for Bay Bridge Pump Station Replacement, Project No. 5-67, for a total amount not to exceed \$12,143,580; and
- B. Approve a contingency of \$1,214,358 (10%).

BACKGROUND

Arcadis U.S., Inc. was selected as part of a competitive, qualifications-based solicitation process to design Bay Bridge Pump Station Replacement, Project No. 5-67. At the time of the solicitation, the Orange County Sanitation District (OC San) documented its intent to approve a subsequent agreement to the design consultant for the continuation of engineering services during construction.

The Bay Bridge Pump Station and associated force mains were constructed in 1966 on East Coast Highway just east of the Lower Newport Bay Channel. The pump station and force mains are critical to OC San's infrastructure as it conveys over half of Newport Beach's wastewater. The pump station is almost 60 years old and at the end of its useful life. The existing force mains were previously lined, are at the end of their useful life, and need to be replaced with a larger size for improved reliability. The force mains will be constructed under Lower Newport Bay Channel via microtunneling. It is imperative that the facility and force mains be upgraded to ensure continuous service.

RELEVANT STANDARDS

- Comply with California Government Code Section 4526 to engage the best qualified firm "on the basis of demonstrated competence and qualifications" and "negotiate fair and reasonable fees"
- Operate and maintain facilities to minimize impacts on surrounding communities, including odor, noise, and lighting
- Achieve less than 2.1 sewer spills per 100 miles

PROBLEM

This project requires the design consultant to provide as-needed services during construction including submittal review, responding to the Contractor's requests for information, reviewing construction change orders, participating in meetings, attending site visits, and preparing record drawings. This project also requires the design consultant to provide full-time microtunneling observation and additional specialty services during the microtunneling portion of the work.

PROPOSED SOLUTION

Approve a Professional Construction Services Agreement with the design consultant, Arcadis U.S., Inc., to provide engineering support services during construction.

TIMING CONCERNS

Engineering support services will be required at the start of construction. Construction is anticipated to start in March 2025.

RAMIFICATIONS OF NOT TAKING ACTION

The engineering support services needed to facilitate and review construction activities would not be available by the Engineer of Record, which may negatively impact the contract execution.

PRIOR COMMITTEE/BOARD ACTIONS

September 2020 - Approved a contingency increase of \$1,784,250 (25%) to the Professional Design Services Agreement with Arcadis U.S., for Bay Bridge Pump Station Replacement, Project No. 5-67, for a total contingency of \$2,497,950 (35%).

October 2017 - Approved a Professional Design Services Agreement with Arcadis U.S., Inc. to provide engineering design services for the Bay Bridge Pump Station and Force Main Replacement, Project No. 5-67, for an amount not to exceed \$7,137,000 and approved a contingency of \$713,700 (10%).

ADDITIONAL INFORMATION

Arcadis U.S., Inc. has successfully furnished engineering services for the design of this project and their support services during construction will provide continuity through the completion of the project.

Staff negotiated with Arcadis U.S., Inc for these support services in accordance with OC San's adopted policies and procedures. A review of the proposed price was conducted using estimated quantities of requests for information, submittals, meetings, site visits, change order reviews, and design revisions, as well as the level of effort for preparing record drawings. Specialty services for microtunneling were evaluated based on construction, permitting, and regulatory requirements. Based on this review, staff determined the negotiated fee to be fair and reasonable for these services. Staff is requesting a 10 percent contingency in case unanticipated professional services are needed during construction.

CEQA

OC San, as lead agency, prepared a Final Program Environmental Impact Report ("EIR") for the Bay Bridge Pump Station and Force Mains Replacement Project, Project No. 5-67, dated May 2018. OC San ultimately certified the EIR for the Project on February 24, 2021. In response to a court ruling, the project was modified, and the impacts of those modifications were analyzed in an Addendum to the EIR. OC San received and filed the Addendum, and approved the modified project, on July 26, 2023. (Public Resources Code Section 21166; CEQA Guidelines Section 15162, 15164.)

FINANCIAL CONSIDERATIONS

This request complies with the authority levels of OC San's Purchasing Ordinance. This item has been budgeted (Budget FY 2024-25 and 2025-26, Section 8, Page 27, Bay Bridge Pump Station Replacement, Project No. 5-67). This item will increase the project budget and will be funded from the CIP budget.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Professional Construction Services Agreement
- Presentation

CM:lb