



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

8-5

April 21, 1998

To: Board of Directors (Engineering and Operations Committee--Action)

From: *for* General Manager

Edward S. Meier III

Submitted by: Gary M. Snyder
Chief Engineer

Wayne F. Poulos for Snyder

Subject: Amend Agreement No. 4532 with Bechtel Corporation for Post-Design Consulting Services for the Inland Feeder Program

Reference: Appropriation No. 15122

RECOMMENDATION(S)

To provide post-design consulting services for the Arrowhead West Tunnel of the Inland Feeder Program, it is recommended that your Board authorize the General Manager to amend Agreement No. 4532 with Bechtel Corporation in the amount of \$9,750,000 for a total agreement amount of \$29,800,000.

EXECUTIVE SUMMARY

Approval of these recommendations will authorize an amendment to Agreement No. 4532 with Bechtel Corporation in the amount of \$9,750,000, increasing the amount payable from \$20,050,000 to \$29,800,000 to provide post-design consulting services, and groundwater monitoring previously planned and budgeted for the Arrowhead West Tunnel of the Inland Feeder Program. The total estimated program cost remains unchanged at \$1,188,000,000.

Request for Proposal (RFP) 080 provided for geologic/geotechnical and tunnel design consulting services for the Arrowhead West and East Tunnels. The scope of work consisted of three individual phases. Phase I and II included geotechnical site investigations, hydrogeological exploration, and preliminary and final designs. Phase III was for support services during the construction phase. Bechtel was selected as the successful candidate for RFP 080, and your Board has approved \$20,050,000 for the Phase I and II work for the Arrowhead West and Arrowhead East Tunnels. This amendment will provide for Phase III activities for the Arrowhead West Tunnel including; pre-construction support, geologic/geotechnical support, groundwater monitoring and mitigation, tunnel lining/grouting consultation, review of contractor submittals, and clarification on construction documents and design issues.

JUSTIFICATION

The workplan for the Inland Feeder Program called for the utilization of consultants for tunnel design and associated geotechnical/geologic work during the design, construction, and post-construction phases of the project. Bechtel was selected through a competitive proposal process and has performed well during the design phase. Extending the existing agreement with Bechtel through construction will provide continuity and assure that design objectives are achieved.

ALTERNATIVE(S) TO PROPOSED ACTION

Use Metropolitan Staff

Metropolitan could determine not to amend the agreement and hire additional personnel to perform these services which would result in additional administrative costs, loss of trained personnel and continuity between design and construction, and possible schedule delays.

Reissue Request For Proposal

Metropolitan could reinitiate the selection of a consultant to perform this work; however, a competitive process was used and Bechtel was selected as the most qualified candidate out of nine respondents. Reinitiating the process would result in increased administrative costs, and loss of experienced personnel and continuity between design and construction.

ACTIONS AND MILESTONES

- o Issue a Notice-To-Proceed for construction of the Arrowhead West Tunnel in July 1998.
- o Complete construction in late-2002.

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION

All California Environmental Quality Act (CEQA) requirements have been satisfied for the proposed action. In February 1993, your Board certified the Final Environmental Impact Report for the Program. This action satisfied the provisions of CEQA, and no further environmental documentation or reviews are necessary for your Board to take action on these recommendations.

CONTRACT SUMMARY

Contract Status:	Amendment No. 4	Type of Selection:	Competitive Proposals, RFP No. 080
Contract Form:	Professional Services	Contractors Requesting Plans:	204
Contract Type:	Time and Materials	Proposals Submitted:	9
Evaluation Criteria:	Evaluation based on qualifications, expertise, methodology, and cost effectiveness		

MBE / WBE

Minority-Owned Business Enterprise (MBE) and Women-Owned Business Enterprise (WBE) Anticipated Levels of Participation (ALP) and actual participation levels under the current agreement with Bechtel Corporation are shown below:

	MBE	WBE
ALP	15.0%	3.0%
Actuals	15.9%	3.3%

These actual participation levels will be maintained for the duration of the current agreement.

DETAILED REPORT

The Arrowhead West Tunnel is the first segment of the Inland Feeder Program. It is located between Waterman Canyon north of the City of San Bernardino and the Department of Water Resources Devil Canyon Power Plant. This segment consists of approximately 21,200 feet of tunnel and 6,600 feet of buried pipeline which passes through a variety of ground and geologic conditions, including a fault-zone and areas of geothermal activity. The construction of this tunnel is scheduled to complete in mid-2002.

RFP No. 080 was issued in September 1993, which included preliminary, final, and post-design services. In January 1994, an agreement was entered into with Bechtel Corporation for \$8.25 million to provide preliminary and final design services including geologic/geotechnical work, for the Arrowhead East and West tunnels of the Inland Feeder Project. Post-design services were identified and budgeted, but not included in the initial scope of the agreement pending a more accurate understanding of the construction requirements of the tunnel.

In May 1995, your Board approved an increase to the Bechtel agreement of \$2.75 million to cover additional geological and hydrogeological exploration to better determine existing geologic conditions.

In December 1995, your Board approved an increase of \$1.425 million to the Bechtel agreement to provide continuous groundwater monitoring for the pre-construction phase and to participate in the review and evaluation of contractor bid documents.

In November 1996, your Board approved an increase of \$7.6 million to the Bechtel agreement to provide funding for post-design support activities of the Arrowhead East Tunnel. It was stated at that time that a request for funding for similar activities for the Arrowhead West Tunnel would be submitted to your Board prior to construction.

This request is to amend Agreement No. 4532 in the amount of \$9,750,000 for post-design services for the Arrowhead West Tunnel. The scope of work includes geologic mapping, geotechnical exploration, ground classification, participation in the development of a grouting

program, review of contractor submittals, and continuation of the groundwater monitoring program. These services will support construction which is scheduled to complete in late-2002.

Groundwater monitoring activities for the post-construction period are not included in this request. A request to amend the agreement for these activities for both the Arrowhead West Tunnel and the Arrowhead East Tunnel will be submitted to your Board prior to the completion of the construction of these tunnels.

BSB/bm:rev3
(Bechtel)
Attachment(s)