

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

January 20, 1998

**To:** Board of Directors (Budget and Finance Committee--Action)  
 (Engineering and Operations Committee--Action)  
 (Organization and Personnel--Action)

**From:** General Manager

**Submitted by:** Gary M. Snyder  
 Chief Engineer

*Eduardo J. Meza III*  
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*Gary M. Snyder, Jr.*  
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**Subject:** Appropriate \$9,500,000 and Enter into an Agreement for Construction Management Support Services for the Inland Feeder Program

**Reference:** Appropriation No. 15122 / Authorization No. 20

### **RECOMMENDATION(S)**

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To provide for Construction Management Support Services for the Riverside Badlands Tunnel of the Inland Feeder Program, it is recommended that your Board:

1. Appropriate \$9,500,000 to finance budgeted costs for Construction Management Support Services; and
2. Authorize the General Manager to enter into an agreement with Parsons-Brinckerhoff Construction Services, Inc. in the amount of \$8,900,000.

### **EXECUTIVE SUMMARY**

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Approval of these recommendations will authorize the General Manager to enter into an agreement with Parsons-Brinckerhoff Construction Services, Inc., to provide construction management support services, previously planned and budgeted for the Riverside Badlands Tunnel of the Inland Feeder Program, and authorize an increase in Appropriation No. 15122 of \$9,500,000, including consultant oversight, to a total Inland Feeder Program appropriation of \$425,227,000. The total estimated cost of the program remains at \$1,188,000,000.

### **JUSTIFICATION**

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The workplan for the Inland Feeder Program called for the utilization of consultants to provide construction management services for the program's tunnels. Parsons-Brinckerhoff Construction Services, Inc., was the successful candidate on Request for Proposal (RFP) No. 286 to provide Construction Management Support Services for the Riverside Badlands Tunnel.

## ALTERNATIVE(S) TO PROPOSED ACTION

### **Use Metropolitan Staff**

An alternative to the proposed action would be to manage the construction of the subject project using only Metropolitan staff. This alternative would require the hiring and training of personnel with the requisite experience for the duration of this project only.

### **Re-issue Request for Proposal**

Metropolitan could reinitiate the selection of a consultant to perform this work; however, a competitive selection process was used and Parsons-Brinckerhoff Construction Services, Inc., was selected as the most qualified candidate out of nine respondents. Reinitiating the process would result in increased administrative costs and likely result in no added benefit for Metropolitan.

## FUNDING REQUEST

<b>Program Name:</b> Inland Feeder			
<b>Source of Funds:</b> 1996 Review Bond Construction Fund			
<b>Appropriation No.:</b> 15122	<b>Authorization No.:</b> 20	<b>FY 97/98 Budget:</b> \$52,677,000	
<b>Requested Amount:</b>	\$ 9,500,000	<b>Capital Program No.:</b>	15122-S
<b>Total Appropriated Amount:</b>	\$425,227,000	<b>Capital Program Page No.:</b>	E-46
<b>Total Program Estimate:</b>	\$1,188,000,000	<b>Program Category:</b>	Supply and Delivery Reliability

## ACTIONS AND MILESTONES

1. Issue Notice-To-Proceed for construction of the Riverside Badlands Tunnel in August 1998.
2. Complete construction in late 2003.

## CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION

All California Environmental Quality Act (CEQA) requirements have been satisfied for the proposed action. In February 9, 1993, your Board certified the Final Environmental Impact Report for the Inland Feeder Program. This action satisfied the provisions of CEQA, and no further environmental documentation or reviews are necessary for your Board to take action on this recommendation.

## CONTRACT SUMMARY

<b>Contract Status:</b>	New	<b>Type of Selection:</b>	Competitive Proposals RFP No. 286
<b>Contract Form:</b>	Professional Services	<b>Contractors Requesting Plans:</b>	35
<b>Contract Type:</b>	Time and Materials	<b>Proposals Submitted:</b>	9
<b>Evaluation Criteria:</b>	Evaluation based on qualifications, expertise, methodology and cost effectiveness.		

## MBE / WBE

RFP No. 286 established certified Minority- and Women-Owned Business Enterprise (MBE/WBE) participation goals for combined subcontracting services at 15 percent. Parsons-Brinckerhoff Construction Services, Inc., has committed to achieve over 27 percent certified MBE/WBE participation. The firms committed for subcontracting use are shown in *Attachment C*.

## DETAILED REPORT

The Riverside Badlands Tunnel segment of the Inland Feeder Project consists of an eight-mile-long, 12-foot-diameter tunnel that begins at the intersection of 5th and Opal Streets near Redlands, and extends south of the Riverside Badlands to the intersection of State Route 60 and Gilman Springs Road in the San Jacinto Valley.

RFP No. 286 was issued in August 1997 to provide Construction Management Support Services for the Riverside Badlands Tunnel. Services include the management of construction activities, performing pre-construction and post-construction surveys, monitoring noise, vibration and blasting, and assisting with mitigation of groundwater impacts. Responses from nine firms were received, evaluated, and scored based on pre-established evaluation criteria. Two of the nine respondents were selected to continue to the next phase of the selection process which included an oral interview.

Upon evaluation of the written proposals and oral interviews, Parsons-Brinckerhoff Construction Services, Inc. was clearly the most technically qualified respondent (*see Attachment B*). In addition, Parsons-Brinckerhoff Construction Services, Inc., submitted a proposal which included a competitive budget and fee schedule. Therefore, it is recommended that Parsons-Brinckerhoff Construction Services, Inc., be selected to perform construction management services for the Riverside Badlands Tunnel.

Based on a 60-month construction period, a \$9,500,000 increase in Appropriation No. 15122 is therefore required to finance the cost for providing construction management services for the Riverside Badlands Tunnel. The cost for Parsons Brinckerhoff Construction Services, Inc., to provide these services represents approximately five percent of the estimated construction contract total. Total construction management for the Riverside Badlands Tunnel, including Metropolitan staff, is expected to be approximately eight percent. Tunnel projects of this nature typically require a construction management budget of approximately ten percent. The total

estimated cost of the Inland Feeder Program remains unchanged at \$1,188,000,000 (*see Attachment A*).

BSB/aj:rev5  
(PB-CM)  
Attachment

Attachment A to 8-1 (Page 1 of 2)

**Financial Statement**  
**Inland Feeder Program**  
**(Capital Program No. 15122-S)**

**Program Summary:**

**TOTAL PROJECT**

	<b><u>Current Budget</u></b>	<b><u>Total Appropriation</u></b>
Planning	\$ 8,020,000	\$ 8,020,000
Land	51,000,000	46,567,000
Mitigation	13,660,000	8,480,000
Design	75,000,000	65,828,000
Contracts/Construction	794,210,000	268,646,000
Contingency	<u>246,110,000</u>	<u>27,686,000</u>
<b>TOTAL</b>	<b><u>\$1,188,000,000</u></b>	<b><u>\$424,227,000</u></b>

The total cost breakdown for Authorization Nos. 19 and 20 to Appropriation No. 15122 are shown below:

	<b><u>Authorization No. 19</u></b>	<b><u>Authorization No. 20</u></b>
<b>CONSTRUCTION CONTRACTS</b>	\$ 175,110,000	\$ 175,110,000
<b>LABOR:</b>		
Study	\$ 1,510,000	\$ 1,510,000
Preliminary Engineering, Final Engineering and Preparation of Specifications	17,986,000	17,986,000
Shop Drawing Reviews, Contract Admin., Field/Fabrication Inspections, Project Mgmt.	18,740,000	19,340,000
Environmental	380,000	380,000
Right-of-Way	<u>5,318,000</u>	<u>5,318,000</u>
<b>LABOR SUBTOTAL</b>	<b>\$ 43,364,000</b>	<b>\$ 43,964,000</b>
Materials and Supplies	4,560,000	4,560,000
Incidental Expenses	1,986,000	1,986,000
Professional & Technical Services	79,116,000	88,016,000
Environmental Mitigation	7,900,000	7,900,000
Right-of-Way Acquisition	30,300,000	30,300,000
Operating Equipment Use	972,000	972,000
Administrative Overhead	23,921,000	23,921,000
Owner Controlled Insurance Program (OCIP)	20,795,000	20,795,000
Contingencies	<u>27,703,000</u>	<u>27,703,000</u>
<b>TOTAL</b>	<b><u>\$ 415,727,000</u></b>	<b><u>\$ 425,227,000</u></b>

Attachment A to 8-1 (Page 2 of 2)

**Financial Statement**  
**Inland Feeder Program**  
**(Capital Program No. 15122-S)**

<b>Revision</b>	<b>Date</b>	<b>Amount</b>
Revision No. 1	August 8, 1989	\$ 3,450,000
Revision No. 2	July 31, 1990	2,320,000
Revision No. 3	December 17, 1991	2,330,000
Revision No. 4	January 22, 1993	3,000,000
Revision No. 5	March 30, 1993	102,900,000
Revision No. 6	June 30, 1993	0
Authorization No. 7	August 20, 1996	2,200,000
Authorization No. 8	October 29, 1996	8,250,000
Authorization No. 9	October 31, 1996	19,710,000
Authorization No. 10	November 19, 1996	7,600,000
Authorization No. 11	December 10, 1996	115,500,000
Authorization No. 12	December 10, 1996	4,700,000
Authorization No. 13	March 18, 1997	17,567,000
Authorization No. 14	May 20, 1997	9,100,000
Authorization No. 15	July 29, 1997	700,000
Authorization No. 16	August 19, 1997	46,300,000
Authorization No. 17	August 19, 1997	56,400,000
Authorization No. 18	November 18, 1997	8,500,000
Authorization No. 19	December 9, 1997	5,200,000
Authorization No. 20	January 20, 1998	9,500,000
Remaining		<u>762,773,000</u>
<b>Total</b>		<b><u>\$1,188,000,000</u></b>

**Source of Funds--**1996 Revenue Bond Construction Fund

**Capital Program for Fiscal Year 1997/98**

**(Program 15122-S)**

Total Program Estimate	\$1,188,000,000
Program Estimate for Fiscal Year 1997/98	\$ 52,677,000

**Projected Expenditures of Funds:**

Through Fiscal Year 1996/97	\$ 105,174,000
Fiscal Year 1997/98	52,677,000
Fiscal Year 1998/99	161,732,000
Fiscal Year 1999/00	193,924,000
Fiscal Year 2000/01	184,397,000
Fiscal Year 2001/02	160,527,000
Fiscal Year 2002/03	66,898,000
Fiscal Year 2003/04	16,171,000
Contingency	<u>246,500,000</u>
<b>TOTAL</b>	<b><u>\$1,188,000,000</u></b>

**Evaluation Summary for RFP No. 286  
Construction Management Support Services  
Riverside Badlands Tunnel - Inland Feeder Project**

**Proposal Scoring**

Firm	Key Personnel Qualifications (72 Points)	Firm's Qualifications (5 Points)	Management Approach (9 Points)	MBE/WBE (5 Points) + (5 Points)	Forensic Monitoring (8 Points)	Office Location (1 Point)	TOTAL <sup>1,2</sup> (105 Points)	Ranking
<b>PB</b>	<b>58</b>	<b>5</b>	<b>8</b>	<b>10</b>	<b>6</b>	<b>1</b>	<b>87</b>	<b>1</b>
A	54	4	7	10	6	1	82	2
B	46	4	6	10	6	1	73	3
C	46	4	6	10	6	1	72	4
D	42	4	6	10	6	1	68	5
E	42	3	6	10	6	1	67	6
F	40	3	5	10	5	1	65	7
G	40	3	5	10	5	1	65	8
H	32	3	4	10	5	1	54	9

**Interview Scoring**

Firm	Team Qualifications (40 Points)	Firm's Qualifications (20 Points)	Approach (20 Points)	Forensic Monitoring (10 Points)	Overall Presentation (10 Points)	Total <sup>3</sup> (100 Points)	Ranking
<b>PB</b>	<b>37</b>	<b>18</b>	<b>19</b>	<b>10</b>	<b>10</b>	<b>94</b>	<b>1</b>
A	25	18	14	9	6	72	2

**Total Scoring**

Firm	Proposal Score	60% Proposal	Interview Score	40% Interview	Total <sup>4</sup>	Ranking
<b>PB</b>	<b>87</b>	<b>52</b>	<b>94</b>	<b>38</b>	<b>90</b>	<b>1</b>
A	82	49	72	29	78	2

- Notes:
1. 105 points possible, including 5 bonus points for added MBE/WBE participation.
  2. Represents the average score of the four member review panel.
  3. Represents the average score of the three member interview panel.
  4. Total score equal to the sum of 60% of proposal plus 40% of interview scores.

**Attachment C to 8-1**  
**MBE/WBE PARTICIPATION**  
**RFP No. 286**

**Consultant Name: Parsons-Brinckerhoff Construction Services, Inc.**

**Anticipated MBE / WBE Levels of Participation: 15% combined MBE / WBE**

<b>Name of Certified MBE/WBE Subconsultant</b>	<b>Work to Be Performed</b>	<b><u>Participation</u></b>	
		<b><u>MBE%</u></b>	<b><u>WBE%</u></b>
EPC Consultants, Inc.	Tunnel inspection/office engineering	17%	
Pacific 17	Tunnel inspection	10%	
Municon Consultants	Forensic Monitoring/Photography		2%
<b>Total Committed Participation</b>		<b>27.00%</b>	<b>2.00%</b>