



**CITY OF HAYWARD**  
**AGENDA REPORT**

AGENDA DATE 12/21/04  
AGENDA ITEM 7  
WORK SESSION ITEM \_\_\_\_\_

**TO:** Mayor and City Council

**FROM:** Director of Public Works

**SUBJECT:** Emergency Water System Intertie Project: Approval of Addenda, Award of Construction Contract, and Authorization for the City Manager to Execute Amendment to Professional Services Contract

**RECOMMENDATION:**

It is recommended that the City Council adopt the attached resolutions that:

1. Approve Addenda Nos. 1, 2, and 3 that make minor revisions to the plans and specifications;
2. Award the contract to Mitchell Engineering in the amount of \$13,173,235; and
3. Authorize an amendment to the agreement with Carollo Engineers to add \$90,000 in additional construction administrative services.

**BACKGROUND:**

In September 2002, a feasibility study of a regional water system Intertie between Hayward, East Bay Municipal Utility District (EBMUD), and San Francisco Public Utilities Commission (SFPUC) was initiated. The study evaluated the viability of conveying potable water between the EBMUD and SFPUC systems using existing and proposed facilities in the City of Hayward in the event that a serious disruption in water supply capacity occurs. The study determined that the project was feasible and recommended construction of an intertie pump station in the City of Hayward and approximately 1.5 miles of pipeline to connect the two water systems. On April 8, 2003, City Council approved the project and the Initial Study/Mitigated Negative Declaration (IS/MND) and Mitigation Monitoring and Reporting Program (MMRP) prepared by Environmental Science Associates, Inc., (ESA).

The proposed intertie project facilities will be located primarily in Hayward. The pump station ("Skywest" Pump Station) will be constructed on Hayward Executive Airport property on an unoccupied parcel located at the southwest corner of Skywest Drive and Hesperian Boulevard. The 8,000-foot pipeline connecting the Skywest Pump Station and the EBMUD and SFPUC systems, will be located along Golf Course Road, Skywest Drive and along Hesperian Boulevard

on the Airport property, and end at the southwest corner of West Winton Avenue and Hesperian Boulevard in the parking lot area of Toys-R-Us. Because most of the facilities needed for the project would be located in Hayward, the City is the lead agency on the environmental review, design and construction.

**DISCUSSION:**

On July 6, 2004, Council approved plans and specifications for the Emergency Water System Intertie Project and called for bids to be received on August 17, 2004. Later, the bid opening date was extended to September 14, 2004, due to issuance of the addenda to bidders. Addenda Nos. 1, 2 and 3, containing clarifications of the plans and specifications, were issued primarily to respond to questions raised during the advertisement period. On September 14, 2004, six bids were received ranging from \$13,173,235 to \$16,878,714. The low bid, submitted by Mitchell Engineering of San Francisco, is 5.2 percent below the engineer's estimate of \$13,900,000. The delay in the award has been to allow EBMUD and SFPUC to go through their approval processes.

Previously, Council approved the execution of a consultant agreement with Carollo Engineers to provide professional services for the project. The agreement contains a not-to-exceed limit of \$1,475,000 which includes \$210,136 for the construction administration services. The project team, consisting of the City, EBMUD and SFPUC, had conducted a detailed review of the original construction administration services and compared them to projects of similar size. The team concluded that the existing budget for construction administration services for this project is not enough and made a recommendation to increase the contract amount for these services from \$210,136 to \$300,136. Both SFPUC and EBMUD have agreed to consider additional construction administration services funding. Therefore, Staff requests an increase of \$90,000 in the construction administration services, for an overall amount of \$300,136. If this is approved, the entire contract with Carollo Engineers will be \$1,565,000. This action will not result in an increase in cost of this project to the City, as the funds will be repaid by SFPUC and EBMUD.

**Project Cost:**

Project Management and Administration (funded by City)	\$ 125,000
Professional Design and Construction Services	1,565,000
Construction Cost	13,173,235
Inspection and Construction Management Provided by City	547,000
PG&E and Other Services	<u>245,000</u>
Total (funded by SFPUC and EBMUD):	\$ 15,530,235

**Funding:**

The estimated cost of \$15.53 million for the intertie projects will be fully funded by SFPUC and EBMUD. The City's contribution of \$125,000 will fund project management and other administrative support to manage the work. A total of \$16,501,000 has been appropriated for the

Regional Water Intertie Facilities Projects in the Regional Water Intertie Fund of the City's Capital Improvement Program. SFPUC and EBMUD have agreed to deposit advance funds, according to a specified schedule, to cover all but the City's contribution of the costs.

**Schedule:**

The following project schedule has been developed for this project:

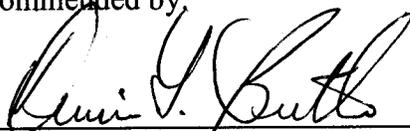
Award Construction Contract	December 21, 2004
Begin Construction	January 2005
Construction Completion	June 2006

Prepared by:



Alex Ameri, Deputy Director of Public Works

Recommended by:



Dennis L. Butler, Director of Public Works

Approved by:



Jesús Armas, City Manager

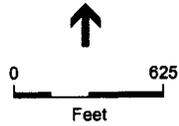
Attachments:

- Exhibit A - Project Location Map
- Exhibit B - Bid Summary



**LEGEND**

- RES Residential
- COM Commercial
- IND Industrial



SFPUC-COH-EBMUD Water System Emergency Intertie Project ■

**Exhibit A**  
Project Location Map

CITY OF HAYWARD  
 SFPUC-COH-EBMUD EMERGENCY WATER SYSTEMS INTERTIE PROJECT  
 PROJECT NO. 7090  
 BIDS OPENED: SEPTEMBER 14, 2004

(NUMBER OF BIDS RECEIVED - 6)

BID SUMMARY				ENGINEER'S ESTIMATE		MITCHELL ENGINEERING PIER 26 THE ENBARCADERO SAN FRANCISCO CA 94105 (415) 227-1040 PHONE (415) 227-1049 FAX		MOUNTAIN CASCADE, INC. P.O. BOX 5050 LIVERMORE CA 94551 (925) 373-8370 PHONE (925) 373-0940 FAX		PROVEN MANAGEMENT, INC. 706 SANSOME STREET SAN FRANCISCO CA 94111 (415) 421-9500 PHONE (415) 421-9600 FAX	
ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
4.1	1	LS	MOBILIZATION	695,000.00	695,000.00	600,000.00	600,000.00	550,000.00	550,000.00	400,000.00	400,000.00
4.2	1	LS	DEMOLITIONS	96,620.00	96,620.00	456,325.00	456,325.00	40,000.00	40,000.00	50,000.00	50,000.00
4.3	1	LS	EARTH WORK	745,580.00	745,580.00	589,768.00	589,768.00	175,000.00	175,000.00	400,000.00	400,000.00
4.4	1	LS	PAVING, FENCING, AND LANDSCAPING	239,760.00	239,760.00	271,527.00	271,527.00	500,000.00	500,000.00	450,000.00	450,000.00
4.5	1	LS	STRUCTURAL AND ARCHITECTURAL	760,600.00	760,600.00	1,660,622.00	1,660,622.00	1,200,000.00	1,200,000.00	1,224,949.00	1,224,949.00
4.6	1	LS	MECHANICAL	1,214,600.00	1,214,600.00	512,245.00	512,245.00	800,000.00	800,000.00	500,000.00	500,000.00
4.7	1	LS	ELECTRICAL AND INSTRUMENTATION	1,274,686.00	1,274,686.00	1,596,321.00	1,596,321.00	1,200,000.00	1,200,000.00	1,800,000.00	1,800,000.00
4.8	1	LS	PUMPS	494,200.00	494,200.00	844,562.00	844,562.00	850,000.00	850,000.00	800,000.00	800,000.00
4.9	1	LS	STANDBY GENERATOR	506,250.00	506,250.00	356,194.00	356,194.00	350,000.00	350,000.00	300,000.00	300,000.00
4.10	1	LS	VALVE VAULT	348,100.00	348,100.00	389,715.00	389,715.00	600,000.00	600,000.00	400,000.00	400,000.00
4.11	1	LS	SURGE TANK	76,600.00	76,600.00	65,303.00	65,303.00	110,000.00	110,000.00	200,000.00	200,000.00
4.12	7,205	LF	36-INCH PIPELINE	594.22	4,281,380.00	454.00	3,271,070.00	615.00	4,431,075.00	700.00	5,043,500.00
4.13	1	LS	AUGER BORING	400,920.00	400,920.00	228,332.00	228,332.00	500,000.00	500,000.00	300,000.00	300,000.00
4.14	1	LS	TRAFFIC CONTROL	90,000.00	90,000.00	149,432.00	149,432.00	100,000.00	100,000.00	100,000.00	100,000.00
4.15	1	LS	ADDITIONAL IMPROVEMENTS	214,070.00	214,070.00	350,325.00	350,325.00	500,000.00	500,000.00	100,000.00	100,000.00
4.16	1	LS	VALVE REPLACEMENTS	404,320.00	404,320.00	424,524.00	424,524.00	500,000.00	500,000.00	600,000.00	600,000.00

Exhibit B

CITY OF HAYWARD  
 SFPUC-COH-EBMUD EMERGENCY WATER SYSTEMS INTERTIE PROJECT  
 PROJECT NO. 7090  
 BIDS OPENED: SEPTEMBER 14, 2004

(NUMBER OF BIDS RECEIVED - 6)

BID SUMMARY				ENGINEER'S ESTIMATE		MITCHELL ENGINEERING PIER 26 THE ENBARCADERO SAN FRANCISCO CA 94105 (415) 227-1040 PHONE (415) 227-1049 FAX		MOUNTAIN CASCADE, INC. P.O. BOX 5050 LIVERMORE CA 94551 (925) 373-8370 PHONE (925) 373-0940 FAX		PROVEN MANAGEMENT, INC. 706 SANSOME STREET SAN FRANCISCO CA 94111 (415) 421-9500 PHONE (415) 421-9600 FAX	
ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
4.17	1	LS	NEWARK TURNOVER IMPROVEMENTS	562,100.00	562,100.00	346,806.00	346,806.00	850,000.00	850,000.00	400,000.00	400,000.00
4.18	1	LS	SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD	154,100.00	154,100.00	129,940.00	129,940.00	20,000.00	20,000.00	300,000.00	300,000.00
4.19	1	LS	AIRPORT SIGN	24,714.38	24,714.38	24,714.38	24,714.38	24,714.38	24,714.38	24,714.38	24,714.38
4.20	1	LS	AQUEDUCT FLUSHING AND CLEANING	270,000.00	270,000.00	158,047.00	158,047.00	125,000.00	125,000.00	250,000.00	250,000.00
4.21	1	LS	MISCELLANEOUS ITEMS	396,400.00	396,400.00	97,463.00	97,463.00	150,000.00	150,000.00	200,000.00	200,000.00
4.22	1	LS	ADMINISTRATIVE CHANGE ORDERS	650,000.00	650,000.00	650,000.00	650,000.00	650,000.00	650,000.00	650,000.00	650,000.00
			<b>TOTAL</b>		<b>13,900,000.38</b>		<b>13,173,235.38</b>		<b>14,225,789.38</b>		<b>14,493,163.38</b>

CITY OF HAYWARD  
 SFPUC-COH-EBMUD EMERGENCY WATER SYSTEMS INTERTIE PROJECT  
 PROJECT NO. 7090  
 BIDS OPENED: SEPTEMBER 14, 2004

(NUMBER OF BIDS RECEIVED - 6)

BID SUMMARY				ENGINEER'S ESTIMATE		SHIMMICK CONSTRUCTION COMPANY, INC. 24200 CLAWITER ROAD HAYWARD CA 94545 (510) 293-1100 PHONE (510) 293-1110 FAX		PACIFIC MECHANICAL CORPORATION 2501 ALLALISA DRIVE CONCORD CA 94520 (925) 827-4940 PHONE (925) 827-0519 FAX		DIABLO CONTRACTORS, INC. 7 CROW CANYON CT, STE 100 SAN RAMON CA 94583 (925) 552-8250 PHONE (925) 552-8254 FAX	
ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
4.1	1	LS	MOBILIZATION	695,000.00	695,000.00	780,000.00	780,000.00	700,000.00	700,000.00	700,000.00	700,000.00
4.2	1	LS	DEMOLITIONS	96,620.00	96,620.00	50,000.00	50,000.00	30,000.00	30,000.00	100,000.00	100,000.00
4.3	1	LS	EARTH WORK	745,580.00	745,580.00	200,000.00	200,000.00	250,000.00	250,000.00	300,000.00	300,000.00
4.4	1	LS	PAVING, FENCING, AND LANDSCAPING	239,760.00	239,760.00	650,000.00	650,000.00	300,000.00	300,000.00	150,000.00	150,000.00
4.5	1	LS	STRUCTURAL AND ARCHITECTURAL	760,600.00	760,600.00	1,500,000.00	1,500,000.00	600,000.00	600,000.00	2,000,000.00	2,000,000.00
4.6	1	LS	MECHANICAL	1,214,600.00	1,214,600.00	950,000.00	950,000.00	3,330,000.00	3,330,000.00	2,250,000.00	2,250,000.00
4.7	1	LS	ELECTRICAL AND INSTRUMENTATION	1,274,686.00	1,274,686.00	1,850,000.00	1,850,000.00	1,500,000.00	1,500,000.00	1,600,000.00	1,600,000.00
4.8	1	LS	PUMPS	494,200.00	494,200.00	660,000.00	660,000.00	500,000.00	500,000.00	300,000.00	300,000.00
4.9	1	LS	STANDBY GENERATOR	506,250.00	506,250.00	240,000.00	240,000.00	400,000.00	400,000.00	200,000.00	200,000.00
4.10	1	LS	VALVE VAULT	348,100.00	348,100.00	65,000.00	65,000.00	150,000.00	150,000.00	600,000.00	600,000.00
4.11	1	LS	SURGE TANK	76,600.00	76,600.00	250,000.00	250,000.00	80,000.00	80,000.00	50,000.00	50,000.00
4.12	7,205	LF	36-INCH PIPELINE	594.22	4,281,380.00	740.00	5,331,700.00	690.00	4,971,450.00	800.00	5,764,000.00
4.13	1	LS	AUGER BORING	400,920.00	400,920.00	550,000.00	550,000.00	550,000.00	550,000.00	600,000.00	600,000.00
4.14	1	LS	TRAFFIC CONTROL	90,000.00	90,000.00	25,000.00	25,000.00	85,000.00	85,000.00	20,000.00	20,000.00
4.15	1	LS	ADDITIONAL IMPROVEMENTS	214,070.00	214,070.00	260,000.00	260,000.00	500,000.00	500,000.00	500,000.00	500,000.00
4.16	1	LS	VALVE REPLACEMENTS	404,320.00	404,320.00	210,000.00	210,000.00	300,000.00	300,000.00	400,000.00	400,000.00

CITY OF HAYWARD  
 SFPUC-COH-EBMUD EMERGENCY WATER SYSTEMS INTERTIE PROJECT  
 PROJECT NO. 7090  
 BIDS OPENED: SEPTEMBER 14, 2004

(NUMBER OF BIDS RECEIVED - 6)

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4.17	1	LS	NEWARK TURNOVER IMPROVEMENTS	562,100.00	562,100.00	270,000.00	270,000.00	800,000.00	800,000.00	600,000.00	600,000.00
4.18	1	LS	SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD	154,100.00	154,100.00	800,000.00	800,000.00	150,000.00	150,000.00	40,000.00	40,000.00
4.19	1	LS	AIRPORT SIGN	24,714.38	24,714.38	24,714.38	24,714.38	24,714.38	24,714.38	24,714.38	24,714.38
4.20	1	LS	AQUEDUCT FLUSHING AND CLEANING	270,000.00	270,000.00	175,000.00	175,000.00	150,000.00	150,000.00	20,000.00	20,000.00
4.21	1	LS	MISCELLANEOUS ITEMS	396,400.00	396,400.00	240,000.00	240,000.00	50,000.00	50,000.00	10,000.00	10,000.00
4.22	1	LS	ADMINISTRATIVE CHANGE ORDERS	650,000.00	650,000.00	650,000.00	650,000.00	650,000.00	650,000.00	650,000.00	650,000.00
			<b>TOTAL</b>		<b>13,900,000.38</b>		<b>15,731,414.38 *</b>		<b>16,071,164.38</b>		<b>16,878,714.38</b>

\* TOTAL DIFFERENT THAN SUBMITTED BID

**DRAFT**

NH  
12/13/04

HAYWARD CITY COUNCIL

RESOLUTION NO. 04-

Introduced by Council Member \_\_\_\_\_

**RESOLUTION APPROVING ADDENDA NOS. 1, 2, AND 3  
FOR THE EMERGENCY WATER SYSTEM INTERTIE  
PROJECT, PROJECT NO. 7090 AND AWARDING  
CONSTRUCTION CONTRACT TO MITCHELL  
ENGINEERING**

WHEREAS, on July 6, 2004, the City Council approved the plans and specifications for the Emergency Water System Intertie Project, Project No. 7090, and called for bids to be received on August 17, 2004; and

WHEREAS, Addenda Nos. 1, 2, and 3, containing clarifications of the plans and specifications were issued to respond to questions raised during the advertisement period.

WHEREAS, on September 14, 2004, six bids were received, ranging from \$13,173,235 to \$16,878,714; the low bid, by Mitchell Engineering of San Francisco being 5.2 percent below the engineer's estimate of \$13,900,000.

NOW THEREFORE, BE IT RESOLVED by the City Council of the City of Hayward that Addenda Nos. 1, 2, and 3 are hereby approved and adopted as part of the plans and specifications for the project.

BE IT FURTHER RESOLVED that Mitchell Engineering is hereby awarded the contract for the Emergency Water System Intertie Project, Project No. 7090, in accordance with the plans and specifications adopted therefor and on file in the office of the City Clerk of the City of Hayward at and for the price named and stated in the bid of the hereinabove specified bidder, and all other bids are hereby rejected.

BE IT FURTHER RESOLVED that the City Manager is hereby authorized and directed to execute an agreement for the award of the contract on behalf of the City of Hayward, in an amount not to exceed \$13,173,235 in a form to be approved by the City Attorney.

IN COUNCIL, HAYWARD, CALIFORNIA \_\_\_\_\_, 2004

ADOPTED BY THE FOLLOWING VOTE:

AYES: CITY COUNCIL:  
MAYOR:

NOES: CITY COUNCIL:

ABSTAIN: CITY COUNCIL:

ABSENT: CITY COUNCIL:

ATTEST: \_\_\_\_\_  
\_\_\_\_\_ City Clerk of the City of Hayward

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney of the City of Hayward

**DRAFT**

*DA  
12/13/04*

HAYWARD CITY COUNCIL

RESOLUTION NO. 04-

Introduced by Council Member   

**RESOLUTION AUTHORIZING AN AMENDMENT TO  
THE AGREEMENT WITH CAROLLO ENGINEERS FOR  
THE EMERGENCY WATER SYSTEM INTERITE  
PROJECT, PROJECT NO. 7090**

WHEREAS, on April 8, 2003, the City Council authorized execution of an agreement with Carollo Engineers for professional services for the Emergency Water System Intertie Project, Project No. 7090, which contains a not-to-exceed limit of \$1,475,000 which includes \$210,136 for construction & administrative services; and

WHEREAS, the project team consisting of the City, EBMUD, and SFPUC conducted a detailed review of the construction administration services and recommends an increase to the contract of \$90,000 for construction administration services; and

WHEREAS, the increase in the project's cost will be repaid by SFPUC and EBMUD.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Hayward hereby authorizes the City Manager to execute an amendment to the agreement with Carollo Engineers to increase the construction administration services from \$210,136 to \$300,136, for a total not-to-exceed contract amount of \$1,565,000, in a form to be approved by the City Attorney.

IN COUNCIL, HAYWARD, CALIFORNIA \_\_\_\_\_, 2004

ADOPTED BY THE FOLLOWING VOTE:

AYES: COUNCIL MEMBERS:

MAYOR:

NOES: COUNCIL MEMBERS:

**ABSTAIN: COUNCIL MEMBERS:**

**ABSENT: COUNCIL MEMBERS:**

**ATTEST:** \_\_\_\_\_  
City Clerk of the City of Hayward

**APPROVED AS TO FORM:**

\_\_\_\_\_  
City Attorney of the City of Hayward