

TO: James L. App, City Manager
FROM: Meg Williamson, Public Works Director
SUBJECT: Award Contract to Repair the Water Tanks at Golden Hill Road
DATE: July 6, 2004

NEEDS: For the City Council to consider adopting Resolution No. 04-xx to award the contract to repair the damaged water tanks at Golden Hill Road.

- FACTS:**
1. The City's two 4-million gallon steel reservoirs located at Golden Hill Road were operating at near full capacity at the time of the San Simeon earthquake, which occurred on December 22, 2003. Each sustained damage.
 2. In March, 2004, the City Council directed staff to prepare plans and specifications and advertise for bids to repair the damaged tanks.
 3. Boyle Engineering was retained to prepare detailed plans for tank repairs, and these plans were completed in May, 2004.
 4. The bid specifications require project completion within 210 calendar days from issuance of a notice to proceed.
 5. Reservoir No. 1, constructed in 1972, sustained more damage than did Reservoir No. 2, which was constructed in 2001. Connecting inlet/outlet piping to both reservoirs was damaged. The control valving for Reservoir No. 2 could be operated following the earthquake, therefore allowing it to be isolated from Reservoir No. 1 and maintained in operation. Reservoir No. 1 was drained and taken out of service due to sustained damage.
 6. Reservoir No. 1 sustained substantial damage to the bottom sketch plate (floor plate immediately inside the perimeter shell plate) as determined by observations and engineering analysis. Reservoir No. 1 also suffered substantial damage to roof purlins (rotation and displacement), purlin rod ties and column (twisting out of vertical alignment).
 7. Reservoir No. 2 sustained minimal damage to roof purlins, roof purlin connections near the top of the perimeter shell plate, and floor plate. The inlet/outlet piping of both reservoirs received substantial damage due to differential movement between the tank and adjacent foundations.

**ANALYSIS
AND**

CONCLUSION: Plans and specifications were issued to the Plan Rooms and provided to prospective bidders who requested copies.

At the bid opening on June 24, 2004 5 bids were received, ranging from a low of \$754,551 to a high of \$1,099,383. Staff reviewed the low bid submitted by MGE Underground and found it to be responsive.

**POLICY
REFERENCE:** Public Works Contract Code

FISCAL

IMPACT: Cost for repair will be reimbursed by FEMA/OES under the Disaster Assistance Program.

- OPTIONS:**
- a. Approve Resolution No. 04-xx awarding the contract to repair the damaged water tanks at Golden Hills Road to low bidder MGE Underground in the amount of \$754,551.
 - b. Amend, modify or reject the above option.

Attachments (2)

- 1) Resolution
- 2) Bid Summary

RESOLUTION NO. 04-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES
AWARDING THE CONTRACT FOR REPAIR OF THE GOLDEN HILLS WATER TANKS
TO MGE UNDERGROUND AND AUTHORIZING THE CITY MANAGER TO
EXECUTE SAID CONTRACT

WHEREAS, the City's two 4-million gallon steel reservoirs located at Golden Hills Road were operating at near full capacity at the time of the San Simeon earthquake on December 22, 3004; and

WHEREAS, both reservoirs sustained damage, Reservoir 1 receiving more damage than 2; and

WHEREAS, per City Council direction, staff prepared plans and specifications for repairs and advertised the project for bid; and

WHEREAS, 5 bids were received, ranging from \$754,551 to \$1,099,383, with the low bid submitted by MGE Underground in the amount of \$754,551.

WHEREAS, the low bid was found to be responsive.

THEREFORE, BE IT RESOLVED AS FOLLOWS:

SECTION 1. The City Council of the City of El Paso de Robles does hereby award the contract for repair of the Golden Hills Water Tanks to MGE Underground in the amount of \$754,551.

SECTION 2. The City Council of the City of El Paso de Robles does hereby authorize the City Manager to execute a contract with MGE Underground for repair of the Golden Hills Water Tanks.

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 6th day of July 2004 by the following vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

Frank R. Mecham, Mayor

ATTEST:

Sharilyn M. Ryan, Deputy City Clerk

**Golden Hill Road Water Tank Repairs
BID SUMMARY**

				MGE Underground Paso Robles, CA		Speiss Const. Santa Maria, CA		Specialty Const. San Luis Obispo, CA	
				Unit Price	Ext Price	Unit Price	Ext Price	Unit Price	Ext Price
Schedule A: Tank No. 1 Structural Work									
1	Mobilization	1	LS	\$56,607	\$56,607	\$18,000	\$18,000	\$89,095	\$89,095
2	Remove and replace shell plate	1	LS	\$71,500	\$71,500	\$44,100	\$44,100	\$57,780	\$57,780
3	Remove and replace bottom plate	1	LS	\$48,950	\$48,950	\$41,200	\$41,200	\$53,500	\$53,500
4	Furnish and install 30-inch manway	1	LS	\$4,950	\$4,950	\$3,500	\$3,500	\$8,025	\$8,025
5	Remove and replace inlet pipe support brackets	1	LS	\$3,300	\$3,300	\$7,600	\$7,600	\$16,050	\$16,050
6	Earthwork for ringwall and pipe encasement	80	cy	\$357	\$28,560	\$420	\$33,600	\$435	\$34,800
7	Concrete for ringwall and pipe encasement incl. reinforcement	70	cy	\$1,000	\$70,000	\$1,000	\$70,000	\$1,849	\$129,430
8	Slurry backfill at ringwall	38	cy	\$104	\$3,952	\$180	\$6,840	\$470	\$17,860
9	Ringwall bottom plate grout	1,021	LF	\$7	\$7,147	\$2	\$2,042	\$13	\$12,916
10	Straighten rafters, girders, and columns	1	LS	\$30,800	\$30,800	\$90,000	\$90,000	\$80,250	\$80,250
11	Interior cleaning and painting	1	LS	\$160,520	\$160,520	\$151,400	\$151,400	\$53,500	\$53,500
12	Exterior cleaning and painting	1	LS	\$12,500	\$12,500	\$7,440	\$7,440	\$19,260	\$19,260
13	Slurry grout voids below tank ¹ (Note: Estimate only)	100	CF	\$55	\$5,500	\$150	\$15,000	\$160	\$16,000
Schedule B: Tank No. 2 Structural Work									
14	Mobilization	1	LS	\$23,295	\$23,295	\$2,800	\$2,800	\$7,080	\$7,080
15	Bottom plate (remove and replace)	1	LS	\$11,000	\$11,000	\$2,400	\$2,400	\$8,025	\$8,025
16	Repair connections	66	EA	\$220	\$14,520	\$162	\$10,692	\$535	\$35,310
17	Straighten clips	30	EA	\$220	\$6,600	\$126	\$3,780	\$590	\$17,700
18	Straighten rafters	10	EA	\$990	\$9,900	\$450	\$4,500	\$1,070	\$10,700
19	Transfer (equalization) pipe weld	1	LS	\$3,300	\$3,300	\$2,700	\$2,700	\$1,416	\$1,416
20	Painting/spot repairs	1	LS	\$3,850	\$3,850	\$14,000	\$14,000	\$53,500	\$53,500
Schedule C: Civil and Site Work									
21	Reservoir/site piping	1	LS	\$125,935	\$125,935	\$178,000	\$178,000	\$171,385	\$171,385
22	16-inch butterfly valves w/buried nut	2	EA	\$3,205	\$6,410	\$3,200	\$6,400	\$3,329	\$6,658
23	16-inch flexible pipe couplings (for steel pipe)	3	EA	\$329	\$987	\$700	\$2,100	\$605	\$1,815
24	24-inch flexible pipe couplings (for ductile iron pipe)	1	EA	\$822	\$822	\$960	\$960	\$1,088	\$1,088
25	24-inch flexible pipe couplings (for steel pipe)	1	EA	\$786	\$786	\$960	\$960	\$1,050	\$1,050
26	24-inch flexible pipe couplings (for DI to steel pipe)	1	EA	\$1,345	\$1,345	\$1,400	\$1,400	\$1,652	\$1,652
27	12-inch triple-arch expansion joints	2	EA	\$794	\$1,588	\$1,800	\$3,600	\$1,827	\$3,654
28	16-inch flexible expansion joints (Flex-tend)	1	EA	\$9,500	\$9,500	\$9,000	\$9,000	\$9,106	\$9,106
29	24-inch flexible expansion joints (Flex-tend)	1	EA	\$15,917	\$15,917	\$14,700	\$14,700	\$15,729	\$15,729
30	Disinfection of tanks, appurtenances, and piping	1	LS	\$2,750	\$2,750	\$4,800	\$4,800	\$5,082	\$5,082
31	Asphalt pavement repair	140	SY	\$84	\$11,760	\$43	\$6,020	\$66	\$9,240
GRAND TOTAL					\$754,551	\$759,534		\$948,655.65	

**Golden Hill Road Water Tank Repairs
BID SUMMARY**

				James Cushman Paso Robles, CA		Whitaker Contr. Atascadero, CA	
				Unit Price	Ext Price	Unit Price	Ext Price
Schedule A: Tank No. 1 Structural Work							
1	Mobilization	1	LS	\$285,000	\$285,000	\$45,000	\$45,000
2	Remove and replace shell plate	1	LS	\$80,000	\$80,000	\$76,250	\$76,250
3	Remove and replace bottom plate	1	LS	\$72,000	\$72,000	\$55,625	\$55,625
4	Furnish and install 30-inch manway	1	LS	\$12,600	\$12,600	\$5,625	\$5,625
5	Remove and replace inlet pipe support brackets	1	LS	\$5,900	\$5,900	\$3,700	\$3,700
6	Earthwork for ringwall and pipe encasement	80	cy	\$430	\$34,400	\$636	\$50,880
7	Concrete for ringwall and pipe encasement incl. reinforcement	70	cy	\$948	\$66,360	\$1,200	\$84,000
8	Slurry backfill at ringwall	38	cy	\$82	\$3,116	\$43	\$1,634
9	Ringwall bottom plate grout	1,021	LF	\$1	\$1,021	\$18	\$18,378
10	Straighten rafters, girders, and columns	1	LS	\$9,200	\$9,200	\$35,000	\$35,000
11	Interior cleaning and painting	1	LS	\$163,000	\$163,000	\$182,500	\$182,500
12	Exterior cleaning and painting	1	LS	\$12,500	\$12,500	\$15,000	\$15,000
13	Slurry grout voids below tank ¹ (Note: Estimate only)	100	CF	\$88	\$8,800	\$207	\$20,700
Schedule B: Tank No. 2 Structural Work							
14	Mobilization	1	LS	\$3,900	\$3,900	\$85,000	\$85,000
15	Bottom plate (remove and replace)	1	LS	\$1,700	\$1,700	\$12,525	\$12,525
16	Repair connections	66	EA	\$260	\$17,160	\$250	\$16,500
17	Straighten clips	30	EA	\$260	\$7,800	\$250	\$7,500
18	Straighten rafters	10	EA	\$760	\$7,600	\$1,500	\$15,000
19	Transfer (equalization) pipe weld	1	LS	\$2,600	\$2,600	\$38,680	\$38,680
20	Painting/spot repairs	1	LS	\$9,350	\$9,350	\$3,875	\$3,875
Schedule C: Civil and Site Work							
21	Reservoir/site piping	1	LS	\$129,000	\$129,000	\$192,930	\$192,930
22	16-inch butterfly valves w/buried nut	2	EA	\$2,100	\$4,200	\$5,070	\$10,140
23	16-inch flexible pipe couplings (for steel pipe)	3	EA	\$300	\$900	\$2,735	\$8,205
24	24-inch flexible pipe couplings (for ductile iron pipe)	1	EA	\$460	\$460	\$2,980	\$2,980
25	24-inch flexible pipe couplings (for steel pipe)	1	EA	\$430	\$430	\$2,916	\$2,916
26	24-inch flexible pipe couplings (for DI to steel pipe)	1	EA	\$1,000	\$1,000	\$3,640	\$3,640
27	12-inch triple-arch expansion joints	2	EA	\$1,100	\$2,200	\$13,495	\$26,990
28	16-inch flexible expansion joints (Flex-tend)	1	EA	\$6,200	\$6,200	\$12,460	\$12,460
29	24-inch flexible expansion joints (Flex-tend)	1	EA	\$11,800	\$11,800	\$26,610	\$26,610
30	Disinfection of tanks, appurtenances, and piping	1	LS	\$8,250	\$8,250	\$25,000	\$25,000
31	Asphalt pavement repair	140	SY	\$40	\$5,600	\$101	\$14,140
GRAND TOTAL				\$974,047		\$1,099,383	