

TO: James L. App, City Manager
FROM: Joseph M. Deakin, Public Works Director
SUBJECT: Award Contract to Install a Ferric Chloride Tank at Lift Station No. 12
DATE: April 15, 2003

NEEDS: For the City Council to consider awarding a construction contract to install a ferric chloride tank at Lift Station No. 12.

- FACTS:**
1. Lift Station No. 12 is located adjacent to west of the California Youth Authority at Airport and Dry Creek Roads. Developments near this Lift Station complain of odors from sewers.
 2. Odors from sewage systems are often associated with hydrogen sulfide formation. Ferric chloride is used to prevent hydrogen sulfide from forming, thereby reducing odors.
 3. The adopted Capital Improvement Program included a project to install a ferric chloride storage tank and delivery system at Lift Station No. 12. in fiscal year 2002/2003.
 4. Bid plans and specifications were distributed to twelve plan rooms and all requesting individuals. A Notice Inviting Bids was advertised in The Tribune on February 3 and March 3, 2003. Attached is a Bid Summary tabulating the bids received.

**ANALYSIS
AND**

CONCLUSION: The Airport Interceptor sewer line is a critical City utility element, with new residential areas, industrial areas, recreational areas, and schools being built along the corridor. Increased odor complaints from nearby residents indicated a need to address sewer use along the corridor. Sewer odors from the Airport interceptor are associated with gaseous sulphur compounds, a typical wastewater issue.

Odor control methods were investigated and ferric chloride addition was found to be an effective solution. Other options were eliminated due to excessive cost, safety hazards or the hazardous waste byproduct generated. Ferric chloride is already used in the City's wastewater treatment process to facilitate solids settling. Adding ferric chloride to the collection system provides dual benefit, it both reduces odors and helps in the treatment process. Currently a small pilot ferric chloride feed system operates on the Airport Interceptor. The results from the pilot program are positive, however, the pilot is too small and labor intensive to operate long term.

The construction project to install a ferric chloride storage tank and feed system was designed and a Notice Inviting Bids was advertised twice in a location newspaper. Eleven (11) bids were received at the Bid Opening on March 20, 2003, ranging from a low bid of \$75,859 to a high bid of \$111,130. The low bid was submitted by Specialty Construction in the amount of \$75,859.

The City received a Bid Protest from the second low bidder, V. Lopez & Sons. The substance of the protest was that Specialty Construction did not "write-in" their bid amount on Page 9 of the Specifications (see attached). Specialty Construction's bid, however, does include all line items in the Bid Schedule (see attached) providing a complete bid. The City Attorney (Linda Beck) reviewed the protest and concluded the bid from Specialty Construction is sufficiently binding and the City may award the contract.

POLICY

REFERENCE: Capital Improvement Program

FISCAL

IMPACT:

The budget for this project was adopted in 2001 under Budget Account No. 601.910.5452.572 (\$15,000 or 30%) and 221.910.5452.572 (\$35,000 or 70%) for a total amount of \$50,000. This initial budget appropriation was anticipated to cover only design costs. Final construction costs were to be determined upon completion of the construction drawings. \$25,000 was spent to complete design. City Council could consider appropriating an additional \$53,000 to complete this project.

OPTIONS:

- a.** Adopt Resolution No. 03-xx:
 - (1)** Appropriating an additional total amount of \$53,000 from the Sewer Enterprise Fund as follows:
 - (a)** Budget Account No. 601-910-5452-572 in the amount of \$15,900; and
 - (b)** Budget Account No. 221-910-5452-572 in the amount of \$37,100.
 - (2)** Authorizing award of a construction contract to Specialty Construction in the amount of \$75,859 for installation of a ferric chloride tank at Lift Station No. 12.
- b.** Amend, modify or reject the above option.

Attachments (3)

- 1) Page 9 and 14 of Specialty Construction's Bid Proposal
- 2) Resolution
- 3) Bid Summary

RESOLUTION NO. 03-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES
APPROPRIATING AN ADDITIONAL \$53,000 FROM THE SEWER ENTERPRISE FUND AND
AWARDING A CONSTRUCTION CONTRACT TO SPECIALTY CONSTRUCTION IN THE AMOUNT
OF \$75,859 FOR INSTALLATION OF A FERRIC CHLORIDE TANK AT LIFT STATION NO. 12

WHEREAS, Lift Station No. 12 is located adjacent to west of the California Youth Authority at Airport and Dry Creek Roads; and

WHEREAS, developments near Lift Station No. 12 complain of odors from sewers; and

WHEREAS, odors from sewage systems are often associated with hydrogen sulfide formation; and

WHEREAS, ferric chloride is used to prevent hydrogen sulfide from forming, thereby reducing odors; and

WHEREAS, the adopted Capital Improvement Program included a project to install a ferric chloride tank and delivery system at Lift Station No. 12 in fiscal year 2002/2003; and

WHEREAS, bid plans and specifications were distributed to twelve plan rooms and all requesting individuals; and

WHEREAS, eleven (11) bids were received at the Bid Opening on March 20, 2003, ranging from \$75,859 to \$111,130; and

WHEREAS, the low bid was submitted by Specialty Construction in the amount of \$75,859.

THEREFORE, BE IT RESOLVED AS FOLLOWS:

SECTION 1. The City Council of the City of Paso Robles does hereby appropriate an additional amount of \$53,000 from the Sewer Enterprise Fund to Budget Account Nos. 601.910.5452.572 (\$15,900) and 221.910.5452.572 (\$37,100) for installation of a ferric chloride tank at Lift Station No. 12.

SECTION 2. The City Council of the City of Paso Robles does hereby authorize award of a construction contract to Specialty Construction in the amount of \$75,859.

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 15th day of April 2003 by the following vote:

AYES:
NOES:
ABSTAIN
ABSENT:

Frank R. Mecham, Mayor

ATTEST:

Sharilyn M. Ryan, Deputy City Clerk

BID SCHEDULE

**INSTALLATION OF A FERRIC CHLORIDE TANK AT LIFT STATION NO. 12
PROJECT NO. 02-12**

Pursuant to INVITATION TO BID, and INFORMATION TO BIDDERS, the undersigned hereby purposes and agrees that on award by the City of Paso Robles in accordance with the provisions of the Contract Documents, to execute the Agreement, with necessary bonds, to furnish and install any and all transportation, materials, equipment, tools, excavation, utilities, sheeting, shoring, bracing and supports, plant and other facilities, and all management, superintendence, permits, labor and services for **Installation of a Ferric Chloride Tank at Lift Station No. 12, Project No. 02-12**, in accordance with the Contract Documents therefore adopted and on file with the City of Paso Robles, within the time hereinafter set forth and at the price or prices set forth in this Bid as follows:

| BID ITEM NO. | ITEM DESCRIPTION | EST. QTY | UNIT COST | EXTENDED TOTAL AMOUNT |
|--------------------|---|----------|----------------------|--|
| 1. | Mobilization | 1 | \$ <u>6,985</u> /LS | \$ <u>6,985</u> |
| 2. | Removal of trickling filter rock bed and demolition system. Pour new concrete base. | 1 | \$ <u>12,800</u> /LS | \$ <u>12,800</u> |
| 3. | Coat secondary containment tank. | 640 | \$ <u>20.00</u> /SF | \$ <u>12,800</u> |
| 4. | Purchase stairway, tanks, and miscellaneous equipment | 1 | \$ <u>26,774</u> /LS | \$ <u>26,774</u> |
| 5. | Install access stairway, bulk and pony tank, associated piping, and ancillary work | 1 | \$ <u>12,500</u> /LS | \$ <u>12,500</u> |
| Bid Alternate base | Remove existing base pad and install new | 1 | \$ <u>4,000</u> /LS | \$ <u>4,000</u> |
| TOTAL | | | | \$ <u>75,859⁰⁰/₁₀₀</u> |

TOTAL BID: Items 1 through 5 inclusive and all work incidental thereto and connected therewith:
 \$ 75,859⁰⁰/₁₀₀ (In Figures)
Seventy One Thousand Eight Hundred Fifty Nine Dollars (In Words)

**Installation of a Ferric Chloride Tank at Lift Station No. 12
DPW Project No. 02-12**

| | | | | Specialty Construction San Luis Obispo, CA | | V. Lopez & Sons Santa Maria, CA | | R.E. McCollum Cedar Ridge, CA | |
|-------------------------|---|-----------|------|---|---------------------|------------------------------------|---------------------|----------------------------------|---------------------|
| | DESCRIPTION | EST. QTY. | UNIT | UNIT PRICE | EXT. PRICE | UNIT PRICE | EXT. PRICE | UNIT PRICE | EXT. PRICE |
| 1 | Mobilization | 1 | LS | 6,985.00 | 6,985.00 | 5,824.00 | 5,824.00 | 4,500.00 | 4,500.00 |
| 2 | Removal of trickling filter rock bed and demolition system. Pour new concrete base. | 1 | LS | 12,800.00 | 12,800.00 | 14,656.00 | 14,656.00 | 15,000.00 | 15,000.00 |
| 3 | Coat secondary containment tank | 640 | SF | 20.00 | 12,800.00 | 18.65 | 11,940.00 | 20.00 | 12,800.00 |
| 4 | Purchase stairway, tanks, and miscellaneous equipment | 1 | LS | 26,774.00 | 26,774.00 | 33,076.00 | 33,076.00 | 30,000.00 | 30,000.00 |
| 5 | Install access stairway, bulk and pony tank, associated piping, and ancillary work | 1 | LS | 12,500.00 | 12,500.00 | 8,198.00 | 8,198.00 | 15,000.00 | 15,000.00 |
| SUB-TOTAL | | | | | 71,859.00 | | 73,694.00 | | 77,300.00 |
| Bid Alternate | Remove existing base pad and install new base. | 1 | LS | 4,000.00 | 4,000.00 | 4,933.00 | 4,933.00 | 2,500.00 | 2,500.00 |
| TOTAL BID PRICE: | | | | | \$ 75,859.00 | | \$ 78,627.00 | | \$ 79,800.00 |

**Installation of a Ferric Chloride Tank at Lift Station No. 12
DPW Project No. 02-12**

| | | | | Ecology Construction, Inc. Canoga Park, CA | | Maino Construction Co., Inc. San Luis Obispo, CA | | Ahrens Corporation San Diego, CA | |
|---------------|---|-----------|------|---|---------------------|---|---------------------|-------------------------------------|---------------------|
| | DESCRIPTION | EST. QTY. | UNIT | UNIT PRICE | EXT. PRICE | UNIT PRICE | EXT. PRICE | UNIT PRICE | EXT. PRICE |
| 1 | Mobilization | 1 | LS | 10,000.00 | 10,000.00 | 4,000.00 | 4,000.00 | 4,000.00 | 4,000.00 |
| 2 | Removal of trickling filter rock bed and demolition system. Pour new concrete base. | 1 | LS | 11,410.00 | 11,410.00 | 12,000.00 | 12,000.00 | 16,000.00 | 16,000.00 |
| 3 | Coat secondary containment tank | 640 | SF | 23.50 | 15,040.00 | 27.00 | 17,280.00 | 21.00 | 13,440.00 |
| 4 | Purchase stairway, tanks, and miscellaneous equipment | 1 | LS | 29,000.00 | 29,000.00 | 27,500.00 | 27,500.00 | 23,000.00 | 23,000.00 |
| 5 | Install access stairway, bulk and pony tank, associated piping, and ancillary work | 1 | LS | 14,716.00 | 14,716.00 | 23,000.00 | 23,000.00 | 23,560.00 | 23,560.00 |
| | <i>SUB-TOTAL</i> | | | | 80,166.00 | | 83,780.00 | | 80,000.00 |
| Bid Alternate | Remove existing base pad and install new base. | 1 | LS | 1,900.00 | 1,900.00 | 8,000.00 | 8,000.00 | 16,000.00 | 16,000.00 |
| | <i>TOTAL BID PRICE:</i> | | | | \$ 82,066.00 | | \$ 91,780.00 | | \$ 96,000.00 |

**Installation of a Ferric Chloride Tank at Lift Station No. 12
DPW Project No. 02-12**

| | | | | Cora Constructors Palm Desert, CA 92260 | | Special Service Contractors, Inc. Paso Robles, CA | | River City Constructors Benicia, CA | |
|--------------------------------|---|-----------|------|--|---------------------|--|---------------------|--|----------------------|
| | DESCRIPTION | EST. QTY. | UNIT | UNIT PRICE | EXT. PRICE | UNIT PRICE | EXT. PRICE | UNIT PRICE | EXT. PRICE |
| 1 | Mobilization | 1 | LS | 14,270.00 | 14,270.00 | 1,000.00 | 1,000.00 | 9,999.00 | 9,999.00 |
| 2 | Removal of trickling filter rock bed and demolition system. Pour new concrete base. | 1 | LS | 8,468.00 | 8,468.00 | 11,550.00 | 11,550.00 | 35,000.00 | 35,000.00 |
| 3 | Coat secondary containment tank | 640 | SF | 22.10 | 14,144.00 | 18.75 | 12,000.00 | 20.00 | 12,800.00 |
| 4 | Purchase stairway, tanks, and miscellaneous equipment | 1 | LS | 44,970.00 | 44,970.00 | 31,036.00 | 31,036.00 | 25,250.00 | 25,250.00 |
| 5 | Install access stairway, bulk and pony tank, associated piping, and ancillary work | 1 | LS | 12,765.00 | 12,765.00 | 36,162.50 | 36,162.50 | 13,000.00 | 13,000.00 |
| <i>SUB-TOTAL</i> | | | | | 94,617.00 | | 91,748.50 | | 96,049.00 |
| Bid Alternate | Remove existing base pad and install new base. | 1 | LS | 2,000.00 | 2,000.00 | 5,000.00 | 5,000.00 | 4,000.00 | 4,000.00 |
| <i>TOTAL BID PRICE:</i> | | | | | \$ 96,617.00 | | \$ 96,748.50 | | \$ 100,049.00 |

**Installation of a Ferric Chloride Tank at Lift Station No. 12
DPW Project No. 02-12**

| | | | | Whitaker Contractors, Inc. Santa Margarita, CA | | Elevation General Eng., Inc. Santa Maria, CA | |
|-------------------------|---|-----------|------|---|----------------------|---|----------------------|
| | DESCRIPTION | EST. QTY. | UNIT | UNIT PRICE | EXT. PRICE | UNIT PRICE | EXT. PRICE |
| 1 | Mobilization | 1 | LS | 2,815.00 | 2,815.00 | 10,000.00 | 10,000.00 |
| 2 | Removal of trickling filter rock bed and demolition system. Pour new concrete base. | 1 | LS | 20,981.00 | 20,981.00 | 20,000.00 | 20,000.00 |
| 3 | Coat secondary containment tank | 640 | SF | 21.00 | 13,440.00 | 23.00 | 14,720.00 |
| 4 | Purchase stairway, tanks, and miscellaneous equipment | 1 | LS | 50,000.00 | 50,000.00 | 42,200.00 | 42,200.00 |
| 5 | Install access stairway, bulk and pony tank, associated piping, and ancillary work | 1 | LS | 9,580.00 | 9,580.00 | 9,210.00 | 9,210.00 |
| SUB-TOTAL | | | | | 96,816.00 | | 96,130.00 |
| Bid Alternate | Remove existing base pad and install new base. | 1 | LS | 8,360.00 | 8,360.00 | 15,000.00 | 15,000.00 |
| TOTAL BID PRICE: | | | | | \$ 105,176.00 | | \$ 111,130.00 |