

CITY OF PEORIA, ARIZONA

CC 25C

COUNCIL COMMUNICATIONS

Amend No _____

Date prepared May 29, 2008

Council Meeting Date June 17, 2007

TO Terrence L. Ellis, City Manager

FROM Stephen L. Bontrager, Utilities Director 

THROUGH Shawn V. Kreuzwiesner, Utilities Engineering Manager 

PREPARED BY Javier Setovich, Construction Superintendent 

SUBJECT Authorize the expenditure of funds utilizing an existing Job Order Contract with Felix Construction for the design and installation of new chemical storage tanks at the Greenway Water Treatment Facility Capital Improvement Project UT00255 (Job Order Contract Solicitation P08-0047)

RECOMMENDATION

That Mayor and Council authorize the expenditure of fund utilizing Job order Contract P08-0047 with Felix Construction for the design and installation of three new chemical storage tanks at the Greenway Water Treatment Facility for a Guaranteed Maximum Price (GMP) of \$57,231 Payment will be made from Water Operations account 2050-2140-543002-CIPWR-UT00255

SUMMARY

In 2007, Mayor and Council approved the design and construction of an additional Alum chemical tank at the Greenway Water Treatment Facility as a result of a pandemic response plan developed by the Utilities Department. The construction of the new Alum tank was recently completed. The pandemic response plan also determined the need to install additional chemical tanks at the plant for the purpose of optimizing operations by extending the time required between chemical deliveries.

The current phase of the project will install new sodium hydroxide, fluoride, and polymer tanks as a supplement to the existing tanks at the site. These new tanks will extend operations during a pandemic event when routine delivery of treatment chemicals could potentially be affected.

CITY CLERK USE ONLY

- Consent Agenda
- Carry Over to Date _____
- Approved
- Unfinished Business (Date heard previous _____)
- New Business

ORD # _____ RES # _____
 A-CON# 23908 P4 LIC # _____
 Action Date _____

Council Communication Page 2 of 2
Greenway Water Treatment Facility chemical tanks
June 17, 2008

Staff recommends that the Mayor and Council award the design phase of a design build contract for the installation of new chemical storage tanks at the Greenway Water Treatment Facility for a GMP of \$57,231. The final design for the project is scheduled to be completed in September 2008. Once the design is complete, staff will ask Mayor and Council to award the GMP for the construction phase of the work. The total budget for the design and construction of the Greenway chemical tanks is \$518,555.

ATTACHMENT(s)

Exhibit "A" - Map

Exhibit "B" - Design Scope

EXHIBIT "A"

Loop 101

Bell RD

Greenway Water Treatment Plant

Greenway RD

Thunderbird RD

Loop 101

83RD AV

Grand AV

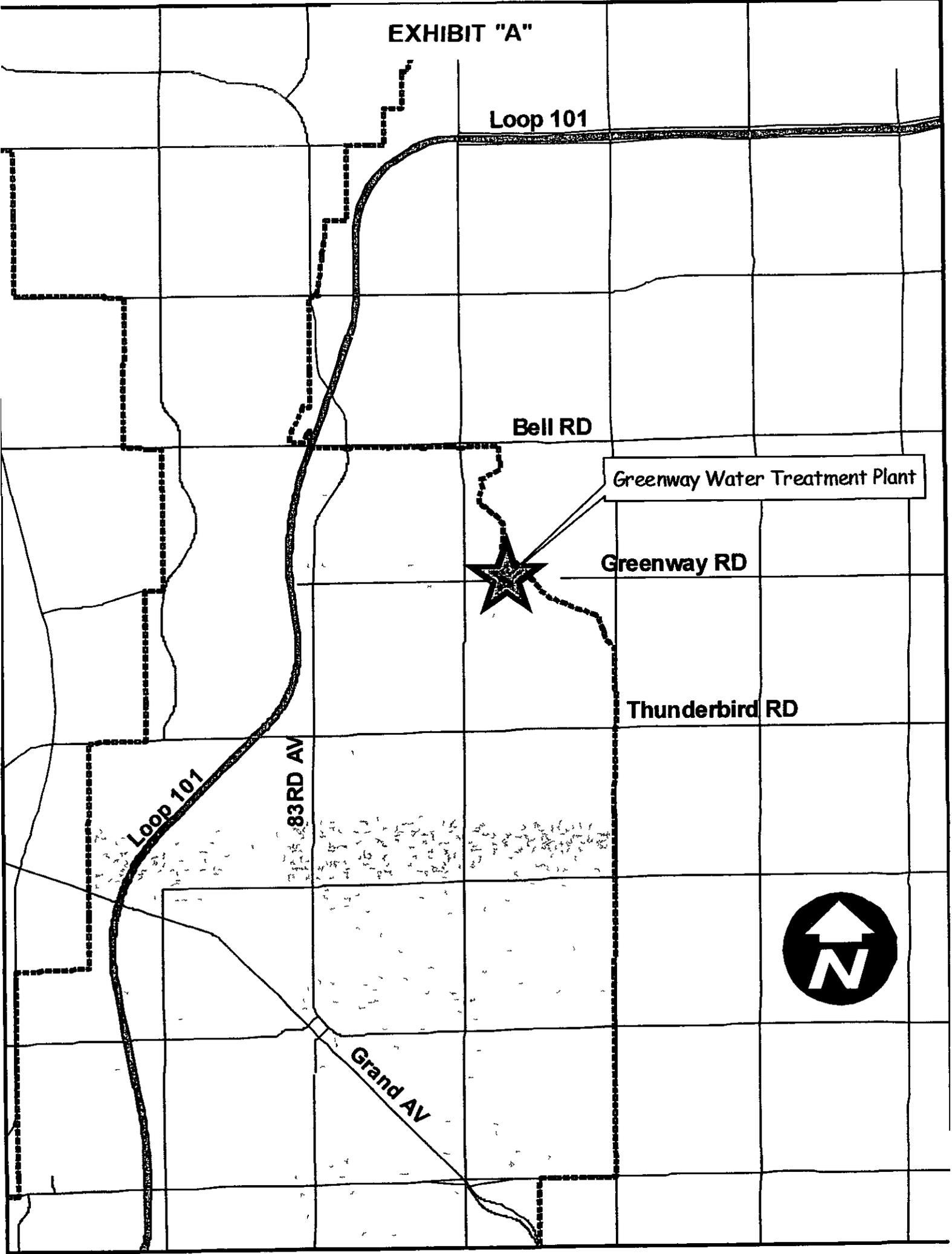


EXHIBIT "B"



City of Peoria
Greenway Water Treatment Plant
Chemical Feed Tanks Modifications
Design Phase

SCOPE OF WORK

BACKGROUND

This scope of services describes the work associated with the preconstruction services necessary to coordinate the design work with Carollo Engineers and to compile a GMP for the modifications to the chemical feed tanks at the Greenway Water Treatment Plant

PROJECT ASSUMPTIONS

Felix Construction Company as the primary contractor for the PROJECT will have the responsibility for delivering the PROJECT pursuant to the City of Peoria Job Order Contract terms. Felix Construction Company will have the following specific responsibilities: primary client contact, overall project management for pre-design, design and construction phases; all PROJECT meetings (including agendas, meetings, and notes); weekly progress meetings; invoicing; PROJECT documentations; value engineering; cost estimating; scheduling; subconsultant management; and distribution of deliverables.

Carollo Engineers' scope is defined in the attached memorandum.

DESCRIPTION OF SERVICES

Constructability Review/Value Engineering – Review the Engineer's documents at the 90% design submittal and input on constructability and Value Engineering as necessary through the 100% design submittal.

Scheduling – Compile schedule for the project at the 90% design submittal and update at the 100% design submittal.

Budget / Cost Modeling / GMP Preparation- Start cost modeling and budget estimates for GMP preparation after 30% design submittal. Revise costs through 90% design submittal to solidify GMP.

Meetings- Lead meetings with Engineers and Owners in order to compile GMP and to facilitate the design work. Keep meeting minutes and distribute to attendees and stake holders.

Other Contract Tasks- This includes contract generation with Engineer, miscellaneous correspondence, etc. Participate in the use of the City of Peoria unified project management system.

Site Investigation- This consists of the original site meetings with the Owners and any follow-up meetings that may be necessary to compile GMP and to facilitate the design work.

Subcontract Pre-Construction- This includes the design services from Carollo Engineers for their design work for this project. Please see the attached Scope of Work for their services.

COSTS OF DESIGN AND PRECONSTRUCTION SERVICES

The total GMP for Design and Preconstruction Services for this project is \$57,231. Please see the attached Services Fees Matrix for the total GMP for the Design and Preconstruction Services. The Construction Phase GMP will be determined following the design phase and the cost is TBD.

Exhibit A

**City of Peoria
Greenway Water Treatment Plant
Chemical Feed Tanks Addition
Design Phase**

**SCOPE OF WORK
May 5, 2008**

BACKGROUND

This scope of services describes the work associated with preparing technical plans and specifications for a new sodium hydroxide storage tank, fluoride storage tank, and polymer storage tank at the Greenway Water Treatment Plant

PROJECT ASSUMPTIONS

Felix Construction Company (FCC) as the primary contractor for the PROJECT will have the responsibility for delivering the PROJECT pursuant to the City of Peoria Job Order Contract terms FCC will have the following specific responsibilities primary client contact, overall project management for predesign, design and construction phases, all PROJECT meetings (including agendas, meetings and notes), weekly progress meetings, invoicing, PROJECT documentations, value engineering, cost estimating, scheduling, subconsultant management and distribution of deliverables

Carollo Engineers' (ENGINEER) as a subconsultant to FCC for the PROJECT will have the following specific responsibilities performance of professional services (including developing engineering design concepts and criteria, preparation of plans and technical specifications, permitting assistance and engineering services during construction) related to the new chemical feed tank additions as noted in the BACKGROUND section, attending design meetings, coordination/interfaces engineering services with FCC and other subcontractors, monthly status reports to FCC and submittal of deliverables to FCC

The ENGINEER's specific scope of work, labor requirements, and engineering costs associated with the PROJECT is based on the following PROJECT assumptions

- 1 An initial design review meeting will be held at the kickoff for the PROJECT Design review meeting with CITY and ENGINEER will be conducted by FCC
- 2 ENGINEER will provide field inspection services during the construction of the PROJECT (Engineering costs to be determined following Design Phase and prior to start of construction)
- 3 The CITY will pay the costs of any permits associated with Maricopa County Environmental Services Department (MCESD) and City of Peoria Building Department

DESCRIPTION OF ENGINEERING SERVICES

1 Project Meetings/Management

Attend initial kickoff meeting with FCC and CITY to review project requirements for the new sodium hydroxide, fluoride and polymer storage tanks

2 Prepare Basis of Design Technical Memorandum

Prepare Technical Memorandum summarizing basis of design for new sodium hydroxide, fluoride and polymer storage tanks

3 Prepare Detailed Plans

Prepare detailed plans and specifications for sodium hydroxide, fluoride and polymer storage tanks suitable for construction. New sodium hydroxide tank shall be a new 9,950-gallon fiberglass reinforced plastic (FRP) tank similar to existing tank. New fluoride tank will be a 6,000-gallon FRP tank to replace existing 1,500-gallon tank. New polymer tank will be a 6,000-gallon FRP tank. Drawings shall be prepared on 22" x 34" sheet format using AutoCAD software. Electronic files of the plan sheets will be provided to the CITY and FCC, in AutoCAD format, on completion of design. Use of the original contract plans shall be utilized as much as possible to maximize the efficiency of the plan development.

Six (6) copies of reduced size (11" x 17") drawings and bound technical specifications shall be submitted to the City and FCC at the 90% complete level for review.

The Engineer shall provide ten (10) full-sized sets of final 100% complete level construction documents.

4 Prepare Specifications

Specifications shall be prepared using MS Word and CSI format using the Engineer's standard specifications and typical details where applicable. The City's standard front-end documents shall be used to supplement the Engineer's technical specifications.

5. Structural and Electrical Calculations

The Engineer shall prepare sealed structural and electrical calculations as that will be used for submittal to the City of Peoria Building Safety Department.

6. Agency Coordination

Coordinate with the City of Peoria Building Safety Department for review and approval prior to construction of the project. The application fees shall be paid by the City.

Submit final contract documents and application for obtaining the Certificate of Approval to Construct from the MCESD. The application fees to MCESD shall be paid by the City.

The maximum estimated level of effort for this task will be 16 hours.

7 Respond to Comments

Provide responses City of Peoria's final comments on the 90% submittal documents

The maximum estimated level of effort for this task will be 6 hours

ESTIMATE OF EFFORT AND COST

The estimated effort and cost for this proposed Scope of Work is summarized in Exhibit C

A breakdown of the estimated effort and cost is as follows

	<u>Estimated Labor Cost</u>	<u>Other Direct Expenses</u>	<u>Total Cos</u>
Design Phase Services	\$43,100	\$4,346	\$47,446

STANDARD OF CARE

Carollo Engineers, P C , referred to as ENGINEER, will be responsible to the level of competency and standard of care presently maintained by other practicing Professional Engineers performing the same and similar type of work at the time notice to proceed is issued ENGINEER and CITY mutually agree that standard of care, as applied to design professionals, will be defined as the ordinary and reasonable care required and established by expert testimony of what a reasonable and prudent professional would have done under the same or similar circumstances

ENGINEER will not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by contractors and will not be responsible for Contractor's failure to carry out work in accordance with the Contract Documents

ENGINEER has no control over the cost of labor, materials, equipment, or services furnished by others, or over Contractor's methods of determining prices, or other competitive bidding or market conditions, practices, or bidding strategies Cost estimates are based on ENGINEER'S opinion based on experience and judgment ENGINEER cannot and does not guarantee that proposals, bids, or actual PROJECT construction costs will not vary from cost estimates prepared by ENGINEER

Exhibit C
City of Peoria
Greenway Water Treatment Plant - Chemical Feed Tanks Addition
ESTIMATE OF EFFORT AND COST
May 5, 2008

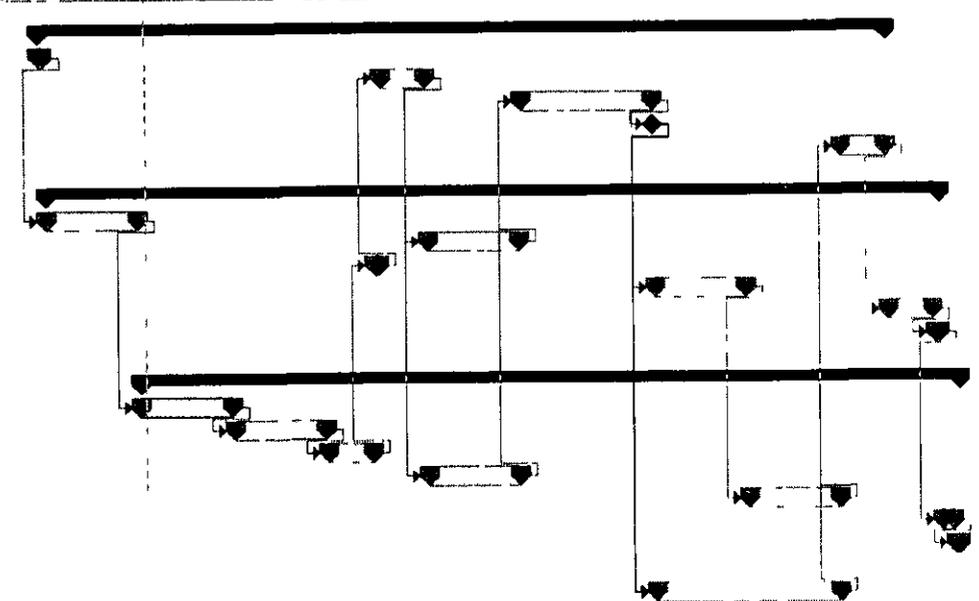
Item	Task	Senior Professional	Lead Project Professional	Project Professional	Professional	Senior Technician	Technician	Word Processing /Clerical	Total Hours	Total Costs
ESTIMATED LABOR EFFORT - DESIGN PHASE										
1	Project Meetings/Management	2		4					6	\$ 1 170
2	Basis of Design Tech Memo	2		8			4	2	16	\$ 2 450
3	Prepare Plans									
	General			4					8	\$ 1 120
	Structural			12		4			24	\$ 3 360
	Mechanical			24		12			48	\$ 6 720
	Electrical			50		24			100	\$ 14 000
	Instrumentation			8		50			18	\$ 2 430
	Typical Details			4		10			8	\$ 1 120
	Subtotal						4			
	# Dwg								15	
	Hrs/Dwg								208	
4	Prepare Specifications	2		28				4	34	\$ 5 930
5	Structural and Electrical Calculations			8					8	\$ 1 480
6	Agency Coordination									
	Coordination with Building Safety Department	1		4			2	2	9	\$ 1 305
	Coordination with MCESD	1		4				2	7	\$ 1 115
7	Respond to Comments			4				2	6	\$ 900
TOTAL ESTIMATED LABOR EFFORT - DESIGN PHASE		8		162			110	12	292	\$ 43,100
ESTIMATED LABOR COST										
	Fee Schedule Rate (1)	\$215	\$205	\$185	\$160	\$135	\$95	\$80		
	Subtotal Estimated Labor Costs	\$1,720		\$29,970			\$10,450	\$960		\$ 43 100
OTHER DIRECT COSTS										
	Project Equipment Communication Expense (PECE)									\$ 2,628
	Printing									
	Draft Copies		6 copies	\$1 20 per sheet				\$108		
	Final Copies (Drawings)		10 copies	\$1 20 per sheet				\$180		
	Final Copies (Specifications)		10 copies	\$100 00 per copy				\$1 000		
	Final Record Drawings		15 copies	\$12 00 per copy				\$180		
	Subtotal							\$1 468		\$ 1 468
	Travel & Misc									\$ 250
	Subtotal Other Direct Costs									\$ 4 346
TOTAL ESTIMATED ENGINEERING SERVICES - DESIGN PHASE										\$ 47,446

Notes.

- (1) Fee schedule rates as of March 1 2008 Subject to annual revisions due to labor adjustments
- (2) Direct expense allowances billed at actual cost with no markup
- (3) City of Peoria will be responsible for payment of all costs associated with MCESD and City of Peoria Building Safety Department permit reviews
- (4) The Estimate of Effort and Cost associated with Phase 2 Construction Services will be developed in accordance with the Scope of Services defined herein at the completion of Phase 1 Design Services and prior to the start of construction

Felix Construction Company Peoria JOC Greenway WTP Chemical Tanks Additions

ID	Task Name	Duration	Start	Finish	Predecessors	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	31	7	14	21	
1																													
2	Carollo Engineers	81 days	Mon 5/5/08	Mon 9/8/08																									
3	Submit Design Phase Services GMP 1 to FCC	1 day	Mon 5/5/08	Mon 5/5/08																									
4	Design Technical Memorandum	5 days	Wed 6/25/08	Tue 7/1/08	12																								
5	90% Design Submittal	14 days	Wed 7/16/08	Mon 8/4/08	11 21																								
6	Submit to MCESD and Peoria Bldg Safety	0 days	Mon 8/4/08	Mon 8/4/08	5																								
7	100% Design Submittal	5 days	Tue 9/2/08	Mon 9/8/08	22 28																								
8																													
9	Felix Construction Company	96 days?	Tue 5/6/08	Tue 9/16/08																									
10	Submit Design Phase Services GMP 1 to Peoria	10 days	Tue 5/6/08	Mon 5/19/08	3																								
11	Review Design Tech Memorandum	10 days	Wed 7/2/08	Tue 7/15/08	4																								
12	Receive NTP for Design Phase	1 day?	Tue 6/24/08	Tue 6/24/08	20																								
13	90% Design Submittal Budget Estimate	10 days	Tue 6/5/08	Mon 6/18/08	5																								
14	GMP Proposal based on 100% Design	5 days	Tue 9/9/08	Mon 9/15/08	7																								
15	Submit GMP 2 proposal to Peoria	1 day	Tue 9/16/08	Tue 9/16/08	14																								
16																													
17	City of Peoria	88 days	Tue 5/20/08	Fri 9/19/08																									
18	Review Design Phase Services GMP 1	10 days	Tue 5/20/08	Mon 6/2/08	10																								
19	Submit Design Phase GMP 1 to Peoria City Council	10 days	Tue 6/3/08	Mon 6/16/08	18																								
20	Generate NTP Award for Design Phase	5 days	Tue 6/17/08	Mon 6/23/08	19																								
21	Review Design Tech Memorandum	10 days	Wed 7/2/08	Tue 7/15/08	4																								
22	Review 90% Budget Estimate	10 days	Tue 8/19/08	Mon 9/1/08	13																								
23	Review GMP 2	2 days	Wed 9/17/08	Thu 9/18/08	15																								
24	Submit GMP 2 to Peoria City Council	1 day	Fri 9/19/08	Fri 9/19/08	23																								
25																													
26	MCESD and Peoria Bldg Safety Review	20 days	Tue 6/5/08	Mon 9/1/08	6																								



Project 1455 02
Greenway WTP Chemical Tanks Additions
Preconstruction Services

Task		Milestone		Rolled Up Critical Task		Split		Group By Summary	
Critical Task		Summary		Rolled Up Milestone		External Tasks			
Progress		Rolled Up Task		Rolled Up Progress		Project Summary			

Preconstruction Services Fee Matrix

Greenway Road WTP - Chemical Feed Tanks Additions

April 7, 2008

Task	Task Description	Direct Labor Hours										Reimburse Allowances	Direct Labor Costs	Burdened Labor Rate	Profit	Total Labor Hours	Task Total
		Principal (\$Hourly Rate)		Project Manager/Est (\$Hourly Rate)		Project Engineer/Est (\$Hourly Rate)		Proj Mgr Electrical (in house) (\$Hourly Rate)		Administrative (\$Hourly Rate)							
		Hrs	\$	Hrs	\$	Hrs	\$	Hrs	\$	Hrs	\$						
503	90% Plan Submittal		-	4	168		-	4	168		-		338	859	66	8	\$ 724
504	95% Plan Submittal		-		-		-		-		-		-				\$ -
505	100% Plan Submittal		-		-		-		-		-		-				\$ -
601	Site Investigation		-	4	168		-	4	168		-		336	659	66	8	\$ 724
602	Underground Investigation Services		-		-		-		-		-		-	-	-	-	\$ -
603	MBE/WBE/DBE Utilization / Goals		-		-		-		-		-		-	-	-	-	\$ -
			-		-		-		-		-		-	-	-	-	\$ -
	Subcontractor Pre-Construction		-		-		-		-		-		-	-	-	-	\$ -
701	Carollo Engineers per Att Scope		-		-		-		-		-	47 446		-	-	-	\$ 47 446
702			-		-		-		-		-		-	-	-	-	\$ -
703			-		-		-		-		-		-	-	-	-	\$ -
704			-		-		-		-		-		-	-	-	-	\$ -
901	Permit Fees - Reimbursable at Cost		-		-		-		-		-		-	-	-	-	\$ -
902	Other		-		-		-		-		-		-	-	-	-	\$ -
	Total	4	\$ 208	40	\$ 1 680		\$	30	\$ 1 260		\$	\$ 47,446	\$ 3 148	\$ 6,170	\$ 617	74	\$ 54 233

1455 02 - JOC Cost Summary
 Greenway WTP Chemical Feed Tank Modifiactions

	Amount	% of Total	G&A	Profit
Direct Cost of the Work				
Labor		0 00%	4 7%	10 0%
Company Equipment		0 00%	4 7%	7 5%
Rental Equipment		0 00%	4 7%	7 5%
Materials		0 00%	4 7%	7 5%
Subcontractors		0 00%	4 7%	4 0%
Other Direct Costs	6 170 00	10 78%	4 7%	7 5%
Total Direct Cost Of the Work	6 170 00	10 78%		
Indirect Cost of the Work				
Consulting Engineer Services	47,446 00	82 90%		
General & Administrative Expense	289 99	0 51%		
Job Order Contractor's Profit	462 75	0 81%		
Insurance - Builder's Risk Policy		0 00%		
Payment and Performance Bonds		0 00%		
Tax State + County + Peoria	2,862 51	5 00%	Rate	8 10%
Tax Exemption Credit				
Total Indirect Cost of the Work	51,061 25	89 22%		
Total Cost of the Work	57,231 25	100 00%		
Contingencies/Allowances				
Contractor's Contingency/Allowance		0 00%		
Owner's Contingency/Allowances		0 00%		
		0 00%		
		0 00%		
Total Contingencies/Allowances	-	0 00%		
Total Job Order Amount	57,231 25	100 00%		



City of Peoria, Arizona

Individual Job Order Contract



Statement of Qualifications No P08-0047

Project Number P08-0047-4

Job Description Chemical feed tanks

Project Name Greenway WTP Tank

Location City of Peoria, Materials Management

Contact Peggy Ferrin

Mailing Address 8314 W Cinnabar St , Peoria, AZ 85345

Phone (623) 773-7115

OFFER

Contractor's
License Number ROC070935 - ROC083020

Felix Construction Company

Job Order Contractor Name

Authorized Signature for Offer

309 East 10th Drive

Donald Felix

Address

Printed Name

Mesa AZ 85210

President

City State Zip Code

Title

(480) 464-0011

(480) 464-0078

Telephone

Facsimile

ACCEPTANCE OF OFFER AND CONTRACT AWARD (For City of Peoria Use Only)

Your offer is hereby accepted. The Contractor is now bound to sell the construction services listed by the attached award notice based upon the solicitation, including all terms conditions specifications amendments, etc of the contract and the Contractor's offer as accepted by the City. The Contractor is hereby cautioned not to commence any billable work or provide any material, service or construction under this contract until Contractor receives an executed Notice to Proceed and Purchase Order.

Attested by

City of Peoria, Arizona.

Mary Jo Kief, City Clerk

Eff Date

Approved as to form

Stephen M Kemp City Attorney

25C 061708
cc

Awarded on

ACON23908P4

Contract Number

City Seal

Official File

Terrence L. Ellis City Manager