

# Water Production Facility Rehabilitation Program

**Project Number:** 62065  
**Total Capital Cost:** \$1,500,000.00

**Department:** Water  
**Type:** Capital Improvement

**Request description:**

This project is to rehab, repair or replace the equipment needed to deliver water to the residents of El Mirage and a portion of Surprise residents. This maintenance program will prolong the useful life of the water production facilities.

Water supply, supply of pressure, and water storage tanks operate successfully with little maintenance for extended multi-year periods. However, gradual failure including corrosion or loss of curb appeal can result in water infrastructure requiring upgrades. Therefore, a rehabilitation program is designed to ensure asset preservation, process water quality improvements, and maintain operator safety. The city has a total of 10 water production facilities within the water distribution system.

The 2021 National Community Survey found that 46% of El Mirage residents rank the quality of drinking water favorably, compared to 69% who rank the overall quality of the utility infrastructure favorably, and 91% of residents feel it is important to focus on utility infrastructure in the next 2 years.

Modified - Added \$300,000 in annual costs for FY27.

Capital Costs	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Planning						\$0.00
Design						\$0.00
Engineering						\$0.00
Repairs/Improvements	\$300,000.00	\$300,000.00	\$300,000.00	\$300,000.00	\$300,000.00	\$1,500,000.00
Construction/Maintenance						\$0.00
Furniture and Fixtures						\$0.00
Other						\$0.00
<b>Total</b>	<b>\$300,000.00</b>	<b>\$300,000.00</b>	<b>\$300,000.00</b>	<b>\$300,000.00</b>	<b>\$300,000.00</b>	<b>\$1,500,000.00</b>

Funding Source	FY2023	FY2024	FY2025	FY2026	FY2027	Total
111 - General						\$0.00
114 - Court						\$0.00
121 - Court Enhancement						\$0.00
128 - Towing						\$0.00
131 - HURF						\$0.00
141 - LTAF						\$0.00
148 - CDBG						\$0.00
156 - Capital Streets						\$0.00
511 - Water	\$300,000.00	\$300,000.00	\$300,000.00	\$300,000.00	\$300,000.00	\$1,500,000.00
516 - Ranchettes						\$0.00
541 - Sewer						\$0.00
591 - Sanitation						\$0.00
<b>Total</b>	<b>\$300,000.00</b>	<b>\$300,000.00</b>	<b>\$300,000.00</b>	<b>\$300,000.00</b>	<b>\$300,000.00</b>	<b>\$1,500,000.00</b>

**Account Codes (Capital Costs):**

511-5-7115-656 \$1,500,000.00  
**\$1,500,000.00**

**Additional Information**

Type of Project: Refurbishment  
 Strategic Priority: Superior Infrastructure  
 Division: Utilities  
 Grant Funding: No  
 Bond Eligible: No  
 Project Status: Modified



# Job Order Cost Proposal



CONTRACTOR NAME: **Felix Construction Company**

Contract Type:	Water Wastewater JOC - PW19-JOC02	City Project No.:	TBD
Job Order No.:	TBD	Contractors Job No.:	1902.XXX
City Project Mgr.:	Jamie Teatsworth	Prepared By:	Kory Burden
Fee Type:	GMP	Date:	10/14/2022
Location:	Brisas Wellsite Reservoir	Revision:	Rev 0
Job Title:	<b>Cleaning &amp; Coating of Reservoir and Ancillary Equipment</b>		

**Description of Work to be Performed** (supporting information attached): See attached Bid Scope and Bid Assumptions for additional information and clarifications.

## SECTION 1: LABOR (inclusive of burden)

Position	Unit	Quantity	Labor Cost	
			Unit Price	Total
Estimator	Hours	-	\$ 75.00	\$ -
Project Manager	Hours	56.25	\$ 80.00	\$ 4,500.00
Project Engineer	Hours	236.36	\$ 55.00	\$ 13,000.00
Admin	Hours	-	\$ 35.00	\$ -
Project Superintendent	Hours	21.33	\$ 75.00	\$ 1,600.00
Foreman	Hours	-	\$ 65.00	\$ -
Craftsman	Hours	11.11	\$ 36.00	\$ 400.00
Apprentice / Laborer	Hours	11.23	\$ 28.50	\$ 320.00
Elect Professional Engineer	Hours	-	\$ 85.00	\$ -
Elect Project Manager	Hours	-	\$ 80.00	\$ -
Elect Technician - Lead	Hours	-	\$ 55.00	\$ -
Elect Technician - Journeyman	Hours	-	\$ 45.00	\$ -
Elect Technician - Apprentice	Hours	-	\$ 36.00	\$ -
Elect General Laborer	Hours	-	\$ 28.50	\$ -
Elect Admin	Hours	-	\$ 35.00	\$ -
<i>*Any emergency or T&amp;M work that requires overtime will be billed at 1.5 times the listed Unit Prices.</i>				\$ 19,820.00

## SECTION 2: EQUIPMENT (supporting information attached)

Item	Unit	Quantity	Equipment Cost	
			Unit Price	Total
Backhoe	Hours	-	\$ 51.36	\$ -
Excavator	Hours	-	\$ 142.94	\$ -
Loader	Hours	-	\$ 65.60	\$ -
Boom Truck	Hours	-	\$ 54.44	\$ -
Water Truck	Hours	-	\$ 61.93	\$ -
Water Wagon	Hours	-	\$ 14.98	\$ -
Air Compressor	Hours	-	\$ 16.48	\$ -
Compactor - Hand	Hours	-	\$ 9.00	\$ -
Dump Truck	Hours	-	\$ 63.36	\$ -
Roller	Hours	-	\$ 37.75	\$ -
ext. Reach Forklift	Hours	-	\$ 52.82	\$ -
Crane	Hours	-	\$ 129.94	\$ -
Pickup Truck - Light Duty	Hours	282.57	\$ 16.81	\$ 4,750.00
Pickup Truck - 1 Ton	Hours	20.00	\$ 25.43	\$ 508.60
Small Tools & Supplies (Consumables)	Hours	16.00	\$ 7.00	\$ 112.00
Manlift	Hours	-	\$ 39.55	\$ -
Portable Welder	Hours	-	\$ 14.75	\$ -
Other Equipment	Hours	-	\$ 1.00	\$ -
<b>Subtotal Equipment Cost (B)</b>				<b>\$ 5,370.60</b>

**SECTION 3: MATERIALS**

Item	Unit	Quantity	Material Cost	
			Unit Price	Total
	LS	1.00	\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
			<b>Subtotal Material Cost (C)</b>	\$ -

**SECTION 4: SUBS & CONSULTANTS**

Company	Description of Work to be Performed (Supporting quote & information attached)	Total Cost
Auza Contracting	Cleaning of Tank	\$ 33,250.00
A-O Painting	Blast/Prep/Coating of Tank and Ancillary Equipment	\$ 72,238.00
TBD	Tank Disinfection	\$ 3,500.00
		\$ -
		\$ -
		<b>Subtotal Subcontractors &amp; Consultants (D)</b>
		\$ 108,988.00

**SECTION 5: RENTAL EQUIPMENT**

Company	Description of Rental Equipment (Supporting quote & information attached)	Total Cost
		\$ -
		\$ -
		\$ -
		<b>Subtotal Rental Equipment (E)</b>
		\$ -

**SECTION 6: GENERAL CONDITIONS OF THE WORK**

Item	Unit	Quantity	General Conditions Cost	
			Unit Price	Total
Mobilization / Demobilization	LS	1.00	\$ 700.00	\$ 700.00
Permits & Environmental Controls	LS	1.00	\$ -	\$ -
Temporary Facilities & Controls	LS	1.00	\$ 1,460.00	\$ 1,460.00
Engineering / Testing	LS	1.00	\$ -	\$ -
Site Support	LS	1.00	\$ -	\$ -
Miscellaneous / Other	LS	1.00	\$ -	\$ -
			<b>Subtotal General Conditions (F)</b>	\$ 2,160.00

OVERHEAD: **6.00%** (% to be taken from matrix)

PROFIT: **10.00%** (% to be taken from matrix)

Subtotal General Contractor Costs (1+2+3+5+6): \$ 27,350.60  
 O&P (**16.00%** of 1+2+3+5+6): \$ 4,376.10  
 Total General Contractor Costs including O&P: \$ 31,726.70

Subtotal Subcontractor Costs (4) \$ 108,988.00  
 Subcontractor Profit (**5%** of 4) \$ 5,449.40  
 Total Subcontractor Costs including Profit: \$ 114,437.40

TOTAL GC Cost (Including O&P) and Subcontractor: \$ 140,714.70  
 Costs (including Subcontractor Profit): \$ 146,164.10  
 Insurance Costs @ **1.0%** \$ 1,407.15  
 Bond Costs @ **1.5%** \$ 2,110.72  
 Sales Tax (65% of **9.3%**) \$ 8,718.86  
 Tax Exemption Credit: \$ -

**Subtotal Job Cost: \$ 158,400.82**

Project Contingencies \$ 20,000.00

Project Allowances \$ -

*Owner must provide prior approval (in writing) before the use of any Allowance or Contingency Funds*

**TOTAL JOB COST: \$ 178,400.82**

Submitted by:

Project Manager

Friday, October 14, 2022

Date

# Job Order Cost Proposal Clarifications

**Project:** Cleaning & Coating of Reservoir and Ancillary Equipment

**Date:** 10/14/2022

**Revision:** Rev 0

## # Includes:

- 1 Clean interior of tank and disposal of all debris / grease
- 2 Prep and re-coat tank interior fill pipe
- 3 Prep and re-coat exterior of tank concrete surfaces
- 4 Prep and re-coat exterior fill pipe, safety climb ladder and cage
- 5 Prep and re-coat exterior of hydro tank and attached piping
- 6 Prep and re-coat booster pump station piping
- 7 Prep and re-coat pump to waste piping
- 8 Prep and re-coat above grade flow meter piping
- 9 Pre and re-coat well pump motor and piping
- 10 3rd party NACE inspection
- 11 Coating system(s) will be as stated on A-O Painting's proposal attached
- 12 Disinfect reservoir when work is complete

## # Excludes:

- 1 Coating of galvanized surfaces
- 2 Permits
- 3 Materials Testing (NACE inspection included)
- 4 Hazardous Materials Testing and Abatement
- 5 Engineering / inspection services except what is specifically listed in the inclusions above
- 6 Structural and / or any other repairs found after interior cleaning

## # Clarifications:

- 1 Due to current market volatility, material pricing is subject to the terms stated on the included material quotes, some of which may establish that final pricing will be determined at the time of shipment.

## # Price Assumes:

- 1 Normal Working Hours
- 2 Construction water is available at the site at no cost

## # Assumes Owner to Provide:

- 1 Access to the site
- 2 Construction water available at the site at no cost
- 3 Bac-T testing of reservoir before putting back into service

## # Potential Contingency Usage:

- 1 Material price escalations due to current market volatility
- 2 Electrical canopy structure prep and paint
- 3 Pump station canopy prep and paint

## # Project Allowance Details:

- 1

**City of El Mirage  
JOC Pricing Matrix**

**PW19 - JOC02, Job Order Contract for Water & Wastewater Projects**

**Contractor: Felix Construction Company**



<b>Indirect Cost of the Work</b>	<b>\$1.00 to \$5,000</b>	<b>\$5,001 to \$10,000</b>	<b>\$10,001 to \$30,000</b>	<b>Over \$30,000</b>
Gc Overhead	6.00%	6.00%	6.00%	6.00%
Gc Profit	20.00%	17.00%	15.00%	10.00%
Subcontractor	5.00%	5.00%	5.00%	5.00%
Bonds	1.50%	1.50%	1.50%	1.50%
Insurance	1.00%	1.00%	1.00%	1.00%
AZ/County/City/Tax	6.045%	6.045%	6.045%	6.045%
<b>Total Indirect Cost %</b>	<b>34.54500%</b>	<b>31.54500%</b>	<b>29.54500%</b>	<b>24.54500%</b>

**City of El Mirage Brisas Well Site**  
**Tank Cleaning and Piping Recoating Project**

**SCOPE OF WORK**

- A. Work to be accomplished will be specific to the cleaning, coating prep and painting of existing water apparatuses at our Brisas well site.
1. Concrete Tank Interior
    - a. Pressure wash interior walls, ceiling, floor, sump, safety ladder including interior piping to remove dirt, food grade oil and food grade oil staining without damaging the interior cement integrity.
    - b. Pressure wash & prep of exterior tank piping, safety ladder/cage for chalking, dirt, loose paint prior to new paint coating
    - c. Pressure washing water waste (water/food grade oil) must be disposed of offsite and or to the well pump to waste pit
  2. Concrete Tank Exterior
    - a. Pressure wash entire exterior for loose coatings, dirt prior to new coating
    - b. Pressure wash & prep exterior tank piping, safety ladder/cage for chalking, dirt, loose paint prior to new paint coating
    - c. Apply 2 coats to tank exterior with paint specified for cement exteriors
    - d. Apply metal primer and paint to tank exterior overflow piping, tank drain piping and safety ladder/cage
  3. Well Site Piping
    - a. Prep, recoat well motor base, effluent piping (see color sheet)
    - b. Prep, recoat pump to waste discharge pipe at sump area (see color sheet)
    - c. Prep, recoat surge tank and associated piping (see color sheet)
    - d. Prep, recoat booster pump influent and effluent piping (see color sheet)
  4. Disinfection
    - a. AWWA Standard C652 recommended procedure

## JOB ORDER AGREEMENT

THIS AGREEMENT is made and entered into this 7th day of January, 2020, by and between Felix Construction, (hereinafter referred to as "Contractor") and the City of El Mirage, Arizona, a municipal corporation, (hereinafter referred to as "City").

Whereas, City issued Request for Proposal (hereinafter "RFQ") No. PW19 - JOC02 seeking proposals from contractors to provide Job Order Contracting for water and wastewater projects on property owned and/or controlled by City; and,

Whereas, Contractor submitted a response to City RFQ No. PW19 - JOC02 offering to provide Job Order Contracting for water and wastewater projects from identified property owned and/or controlled by City (hereinafter "Proposal"); and,

Whereas, Contractor was awarded a Contract to provide services in conformance with the requirements of RFQ No. PW19 - JOC02.

NOW, THEREFORE, Contractor and City hereby agree as follows:

1. Contractor agrees, at its own cost and expense, to do all the work and furnish all the equipment, personnel and materials necessary to provide, in a good and substantial manner and to the satisfaction of the City, the following work, Job Order Contracting for water and wastewater projects, in accordance with the City of El Mirage RFQ No. PW19 - JOC02 and Contractor's contract in response to RFQ No. PW19 - JOC02, which are hereby specially referred to and by such reference made a part hereof in their entirety. RFQ No. PW19 - JOC02 shall consist of the following documents, which are incorporated herein by this reference: Notice of Request for Qualifications; Instructions and Proposal Conditions; Scope of Work and Project Specifications; General Terms and Conditions; Proposal; Appendices; and Exhibits.
2. City agrees to pay Contractor, and Contractor agrees to accept, as full compensation for furnishing all equipment, personnel and materials and for doing all the work contemplated and embraced in this Agreement, the amounts set forth in Contractor's contract in response to RFQ No. PW19 - JOC02.
3. The City hereby promises and agrees with the Contractor to retain, and does hereby retain, Contractor to provide the equipment, and personnel and materials and to do the work according to the terms and conditions herein contained and referred to, for the price aforesaid, and hereby contracts to pay the same at the time, in the manner and upon the conditions as provided; and the said parties for themselves, their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of the covenants herein contained.
4. It is further expressly agreed by and between the parties that should there be any conflict between the terms of this Agreement, RFQ No. PW19 - JOC02 or the Proposal, then this Agreement and the provisions terms of RFQ No. PW19 - JOC02 shall control and nothing herein shall be considered as an acceptance of the terms of the said Proposal conflicting herewith or RFQ No. PW19 - JOC02, unless expressly so stated herein.
5. Time is of the essence to the terms of this contract.
6. FEDERAL AND STATE EMPLOYMENT IMMIGRATION LAWS. To the extent applicable under A.R.S. § 41-4401, Contractor warrants its and its subcontractors compliance with all federal immigration laws and regulations that relate to their compliance with the E-verify requirements under A.R.S. § 23-214(A). Contractor's or its subcontractors' breach of the above-mentioned warranty shall be deemed a material breach of the Agreement and may result in the termination of the Agreement by the City of El Mirage. The City of El Mirage retains the legal right to randomly inspect the papers and records of Contractor and its subcontractors to ensure that the Contractor and its subcontractors are complying with the above-mentioned warranty.

The Contractor warrants to keep the papers and records open for random inspection during normal business hours by the City of El Mirage. The Contractor shall cooperate with the City of El Mirage's random inspections including granting the City entry rights to Contractor's property to perform the random inspections and waiving its right to keep such papers and records confidential. The failure of Contractor to comply with this warranty regarding the keeping of papers and records and cooperating with the City's random inspections shall constitute a material breach of the Agreement and the City shall have the right to immediately terminate the Agreement.


The Contractor further agrees to include the following language in all subcontracts entered into by Contractor with any person or entity to perform work on the Agreement and to terminate the agreement with any subcontractor who violates any of the warranties set forth in said language below.

To the extent applicable under A.R.S. § 41-4401, Subcontractor warrants to Contractor and the City of El Mirage Subcontractor's compliance with all federal immigration laws and regulations that relate to its compliance with the E-verify requirements under A.R.S. § 23-214(A). Subcontractor's breach of the above-mentioned warranty shall be deemed a material breach of the Agreement and may result in the termination of the subcontract by Contractor at the direction of the City of El Mirage. Subcontractor further acknowledges the City of El Mirage's right to randomly inspect the papers and records of Subcontractor to ensure that Subcontractor is complying with the above-mentioned warranty.


Subcontractor warrants to keep the papers and records open for random inspection during normal business hours by City of El Mirage. Subcontractor shall cooperate with City of El Mirage's random inspections including granting the City entry rights to Subcontractor's property to perform the random inspections and waiving their respective rights to keep such papers and records confidential. The failure of Subcontractor to comply with this warranty regarding the keeping of papers and records and failure to cooperate with the City's random inspections shall constitute a material breach of the Agreement and the City shall have the right to immediately require Contractor to terminate the Agreement with Subcontractor.

Executed and entered into on the date first written above.

CITY:

  
\_\_\_\_\_  
Public Works Department Director

CONTRACTOR:

  
\_\_\_\_\_  
David Giannetto, Principal, Felix Construction