



**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CA09-070**

1. Agenda Item Number:
30
2. Council Meeting Date:
September 25, 2008

TO: MAYOR & COUNCIL
THROUGH: CITY MANAGER

3. Date Prepared: September 5, 2008

4. Requesting Department: Municipal Utilities

5. SUBJECT: Award a project agreement for the design of an extension to the Chandler Joint Water Treatment Plant transmission line, Project No. WA0901-201, to Morrison-Maierle, Inc., in an amount not to exceed \$54,840.

6. RECOMMENDATION: Staff recommends Council award a project agreement for design of an extension to the Chandler Joint Water Treatment Plant transmission line, Project No. WA0901-201, to Morrison-Maierle, Inc., in an amount not to exceed \$54,840.

7. BACKGROUND/DISCUSSION: The new Santan Vista Water Treatment Plant joint project with the Town of Gilbert is scheduled for completion for the summer of 2009. Potable water from this plant will be delivered to the City of Chandler via a new 4.5 mile pipeline from the water plant located near Higley and Ocotillo Roads to Gilbert and Ocotillo Roads. It will connect to Chandler's water transmission main system for distribution to several of Chandler's existing water reservoirs. This project is to design a 3600-foot extension of this water transmission main system from the intersection of Cooper and Germann Roads, south following the alignment of the proposed Airport Boulevard to connect to the Airport Water Production Facility reservoir.

8. EVALUATION PROCESS: The consultant selection process was conducted in accordance with established City policies and procedures. On May 24, 2007, staff received statements of qualifications from seventeen firms to provide pipeline design services. The selection committee reviewed the qualifications and selected two firms for recommendation of contract award. The selection committee consisted of the following members:

- John Knudson, Senior Engineer, Municipal Utilities
- Tim Krawczyk, Engineer Assistant, Contract Administration
- Wendy Chambers, Utility Systems Manager, Municipal Utilities
- Ray Dubois, Water Distribution Superintendent, Municipal Utilities
- Greg Fischer, Resident

Council approved the selection of Morrison-Maierle, Inc. on August 23, 2007.

9. FINANCIAL IMPLICATIONS:

Cost: \$54,840
Savings: None
Long Term Costs: None

Fund Source:

<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
605.3820.0000.6712.8WA076	Water Operating	Transmission Mains	FY08/09	\$54,840

10. PROPOSED MOTION: Move that Council award a project agreement for the design of an extension to the Chandler Joint Water Treatment Plant transmission line, Project No. WA0901-201, to Morrison-Maierle, Inc., in an amount not to exceed \$54,840.

ATTACHMENTS: Location Map, Project Agreement

APPROVALS

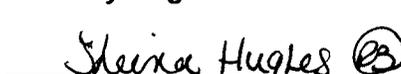
11. Requesting Department


Robert Mulvey, Assistant Municipal Utilities Director

13. Department Head


Dave Siegel, Municipal Utilities Director

12. City Engineer

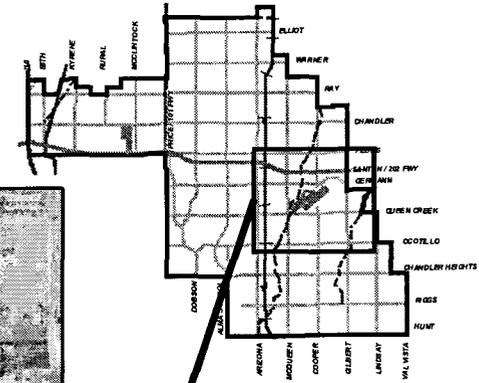
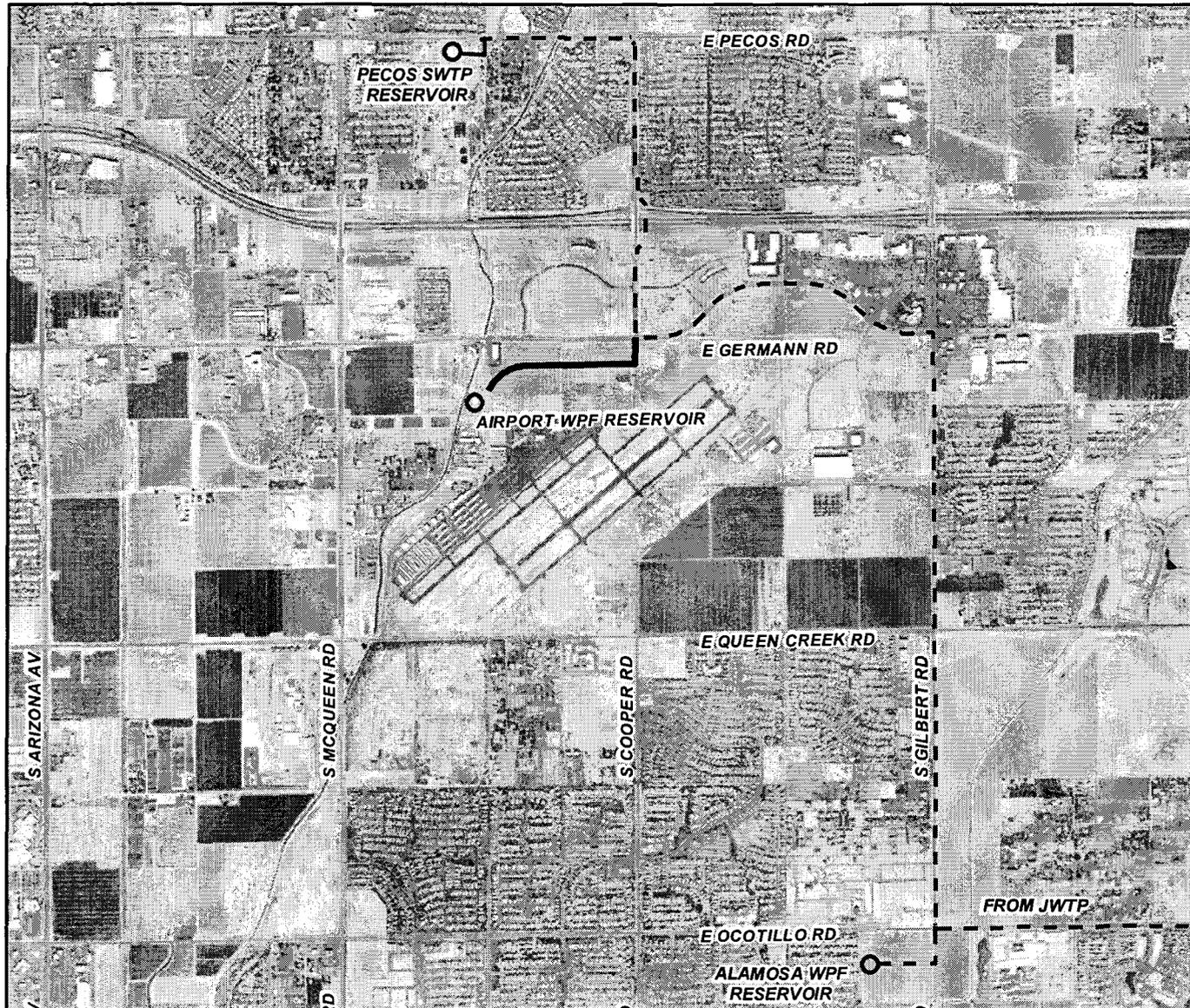

Sheina Hughes, Assistant Public Works Director/
City Engineer

14. City Manager


W. Mark Pentz

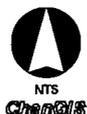


CHANDLER TRANSMISSION MAIN EXTENSION PROJECT NO. WA0901-201



MEMO NO. CA09-070

- PROPOSED TRANSMISSION MAIN
- - - EXISTING TRANSMISSION MAIN



**PROJECT AGREEMENT
PURSUANT TO ANNUAL CONTRACT NO. EN0711-101**

AGREEMENT NO: WA0901-201

This AGREEMENT is made this _____ day of _____ 2008, by and between the City of Chandler, a municipal corporation (hereinafter referred to as "CITY") and Morrison-Maierle, Inc., (hereinafter referred to as "Annual Consultant") and is a project agreement entered into pursuant to Annual Contract No. EN0711-101.

CITY and Morrison-Maierle, Inc., in consideration of the mutual covenants herein set forth, agree as follows:

ARTICLE 1. DESCRIPTION OF WORK

This project is Joint Water Treatment Plant (JWTP) Transmission Line, Project Number WA0901-201. The scope of work consists of preparing of Design Plans, Specifications, and Bid Documents for construction of a low-pressure water transmission main within the future realigned roadway of Airport Boulevard, all as more particularly set forth in Exhibit A attached hereto and incorporated herein by reference.

The Annual Consultant shall not accept any change of scope, or change in contract provisions, unless issued in writing, as a contract amendment and signed by the Contract Administrator.

ARTICLE 2. CONTRACT PRICE

CITY shall pay Annual Consultant for completion of the Work in accordance with the Contract Documents a fee not to exceed Fifty Four Thousand Eight Hundred Forty Dollars (\$54,840) determined and payable as set forth in Annual Contract EN0711-101 and Exhibit B attached hereto and made a part hereof by reference.

ARTICLE 3. CONTRACT TIME

The contract time is One Hundred Twenty days and Annual Consultant agrees to complete all work within One Hundred Twenty (120) days of the date CITY issues a Notice to Proceed.

ARTICLE 4. GENERAL

This Project Agreement is entered into pursuant to Annual Contract No. EN0711-101 and the terms and conditions contained therein are incorporated herein by reference as if set forth in full.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first written above.

This Agreement will be effective on this _____ day of _____, 2008.

CITY OF CHANDLER

FOR THE ANNUAL:

MAYOR DATE:

By: John Golman
Title: General Manager - Phoenix

ADDRESS FOR NOTICE
City of Chandler
P.O. Box 4008, Mail Stop 407
Chandler, AZ 85244-4008
480-782-3307

ADDRESS FOR NOTICE
Morrison-Maierle Inc
80 E. Rio Salado Parkway Ste 201
Tempe, AZ 85281

APPROVED AS TO FORM:

Phone: 480-517-5800
Fax: 480-517-5801

City Attorney By: _____

ATTEST:

City Clerk

**EXHIBIT A
SCOPE OF WORK**

SCOPE OF SERVICES

This project is for preparation of Design Plans, Specifications, and Bid Documents for construction of a low pressure water transmission main within the future realigned roadway of Airport Boulevard between the Airport Water Plant and the intersection of Cooper Road and Germann Road.

The General Scope of Work consists of:

- Design low pressure water transmission main to be connected to a new pipeline stub-out to be constructed as part of the Airport Water Plant Improvement Project currently under design, and to the 36-inch water transmission line in Germann Road at the Cooper Road Intersection.
- Remove any smaller "jumper" water lines found in the intersection of Germann Road and Cooper Road, as instructed by City Staff.

ANNUAL CONSULTANT shall:

- Inventory the project site
- Review record drawings of area improvements
- Obtain utility location drawings from private utility servers who have facilities in the area, including but not limited to electricity, phone, cable TV, gas, and irrigation
- Photo log the existing conditions of the project area.
- Incorporate topographic survey data, roadway AutoCAD electronic design files, geotechnical investigation data, and any preliminary utility design data completed for the Airport Boulevard relocation project into the construction drawings. This information shall be provided by the CITY.
- Provide additional topographic survey including updated utility locations at the intersection of Cooper Road and Germann Road to reflect recently completed-as-constructed conditions.
- Provide CITY an economic comparison Technical Memorandum comparing:
 - 20-inch versus 24-inch ductile iron pipe material costs
 - Use of lower Pressure Class (e.g. Pressure Class 250) versus a higher Pressure Class (e.g. Pressure Class 350) ductile iron pipe
- Coordinate with the Public Works–Transportation Department as to street classification of the new Airport Boulevard relocation, and any special design and utility location details.
- Design the new Airport Boulevard low pressure transmission main in accordance with the City's Technical Design Manual #1 – Water System Design and the City's Standard Specifications and Details.
- Prepare construction drawings in AutoCAD format compatible with City of Chandler CADD technology using City layering standards. The drawing format will be 24 inches x 36 inches sheet size. It is estimated that nine (9) plan sheets will be required, as follows:

Cover Sheet	1 sheet
General Notes, Legend, and Key Map	1 sheet
Overall Transmission Main	1 sheet
Plan and profile for 3,600 L.F. of transmission main (scale 1 inch = 40 feet)	4 sheets
Connection and project details	2 sheets
- Provide complete specification in CSI format to include technical specifications, bidding documents, and special provisions. Specifications shall reference the Uniform Standard Specifications and Details for Public Work Construction sponsored by the Maricopa Association of Governments (MAG), and the City of Chandler Standard Specifications and Details.
- Submit design documents to the City for review at 30 percent and 60 percent stages. Specifications shall first be submitted at the 60 percent submittal. The ANNUAL CONSULTANT shall provide four (4) sets at 30 percent submittal and six (6) sets at 60 percent submittal.
- Submit 60 percent design plans to the appropriate utility companies for their review and comments.
- Incorporate all comments and/or corrections received from the reviewing entities into 90 percent design documents. The ANNUAL CONSULTANT shall submit six (6) sets of 90 percent design documents to the City for review.
- Prepare an Opinion of Probable Cost at the 90 percent submittal and update accordingly for Project bidding upon completion of final bid documents.
- Submit design documents to Maricopa County Environmental Services Department and obtain an Approval To Construct. Any fees associated with this submittal will be the responsibility of the CITY.

- Incorporate all comments and/or corrections received from the reviewing entities into the final bid set of contract documents. Deliver one (1) stamped original set of final bid plans and specifications, and one (1) electronic file of all final bid documents to the CITY.
- Prepare traffic control details on 11" x 17" sheets and specifications, to incorporate into the final bid set, for work in:
 - Cooper / Germann intersection
 - Within Cooper Road ROW
 - Along Airport Boulevard ROW

After acceptance of the Bidding Documents and the final Opinion of Probable Construction Cost by the CITY, ANNUAL CONSULTANT shall assist the CITY in the bidding of the project. Services to be provided by ANNUAL CONSULTANT shall include:

- Issue Addenda as appropriate to clarify, correct, or change the Bidding Documents.
- Attend pre-bid meeting
- Attend the Bid opening, prepare Bid tabulation sheets, and assist CITY in evaluating bids or proposals and in assembling and awarding contract for Work.

ANNUAL CONSULTANT'S FEES

For Basic Services - Not-To-Exceed Method of Payment

ANNUAL CONSULTANT may alter the distribution of compensation between individual phases noted herein to be consistent with services actually rendered, but shall not exceed the total amount unless approved in writing by the CITY.

The fee total includes compensation for ANNUAL CONSULTANT's services and services of ANNUAL CONSULTANT's Consultants, if any. Appropriate amounts have been incorporated in the total to account for labor, overhead, profit, and Reimbursable Expenses.

ANNUAL CONSULTANT shall invoice for services on a monthly basis; monthly invoices will be based upon ANNUAL CONSULTANT's estimate of the proportion of the total services actually completed during the billing period.

For Additional Services - Hourly Rate Plus Reimbursable Expenses

CITY shall pay ANNUAL CONSULTANT for Additional Services an amount equal to the cumulative hours charged to the Project by each class of ANNUAL CONSULTANT's employees times Standard Hourly Rates for each applicable billing class for all services performed on the Project, plus Reimbursable Expenses and ANNUAL CONSULTANT's charges, if any.

**EXHIBIT B
FEE SCHEDULE**

Task	Proj. Pmcpl	Super. Eng. II	Super. Eng. I	—hours—			2 Man Survey	Sr. Eng Tech.	CADD Tech	Proj Coor	Total
				Eng. P.E.	Eng. E.I.T.						Labor Dollars
Site Visit & Inventory		2		6	8						\$1,870.00
Base CADD Maps				6				40			\$4,720.00
Addnl Topo Survey		1				8		6			\$1,955.00
Cost Compare Tech Memo		2		8					2		\$1,400.00
Pipe Design		2		12							\$1,750.00
Plans & Specs		10		40				128	10		\$19,800.00
City Submittals		6		16				10			\$3,850.00
Utility Submittal		2		6				4	4		\$1,690.00
MCESD Submit.&Tech Memo		3		5				4	2		\$1,595.00
Final Plans & Specs		2		10				32	4		\$4,970.00
Traffic Control Dwgs			6					16			\$2,410.00
Cost Estimates		2		8							\$1,270.00
Bidding Assistance		8		16					2		\$3,290.00
Quality Assurance Review		8									\$1,240.00
Meetings - 2		8		8							\$2,200.00
Manhour Totals		56	6	141	8	8	240		24		\$54,010.00
LABOR COSTS											
Category	Hours										Hours X Hourly Rate = Contract Rate = Hourly Rate = Contract Rate = Hourly Rate =
Proj. Principal											
Supervising Engineer II	56										8680.00
Supervising Engineer I	6										810.00
Proj. Engineer, P.E.	141										16920.00
Proj. Engineer, E.I.T.	8										840.00
2 Man Survey Crew & Equip.	8										1200.00
Sr. Engineer Tech	240										24000.00
Eng./CADD Tech											
Project Coordinator	24										1580.00
	483										
											Labor Costs \$54,010.00
OTHER DIRECT COSTS											
Item	Quantity	Unit						Rate			Cost
Survey Equipment		Hrs.						\$40.00			
Vehicle Expense	200	Mi						\$0.65			130.00
Aircraft Exp/Private-Commercial		Trip						\$400.00			
PerDiem - Room & Meals		Man Days						\$100.00			
Printing	1	Copies						\$500.00			500.00
Freight/Postage		Each						\$25.00			
Photographs/Maps		Each						\$25.00			
Project Supplies	1	Cost						\$200.00			200.00
Subconsultant		Cost						1.15			
Subconsultant		Cost						1.15			
											Expenses \$830.00
TOTAL ESTIMATED FEE											\$54,840.00