



**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CP16-133**

1. Agenda Item Number: 14
2. Council Meeting Date: February 25, 2016

TO: MAYOR & COUNCIL

3. Date Prepared: February 1, 2016

THROUGH: CITY MANAGER

4. Requesting Department: Airport

5. SUBJECT: Project Agreement with Dibble Engineering for Construction Management Services for the Airport Guidance Signs & Runway 4R/22L Precision Approach Path Indicators (PAPI) Replacement

6. RECOMMENDATION: Staff recommends that City Council award a project agreement to Dibble Engineering for Construction Management Services for Airport Guidance Signs & Runway 4R/22L Precision Approach Path Indicators (PAPI) Replacement Project AI1502.451, pursuant to Annual Airport Facilities and Infrastructure design Services Contract No. EN1005.101, in an amount not to exceed \$97,973.

7. BACKGROUND/DISCUSSION: Approximately 87 airfield guidance signs have reached the end of their useful lives. They are either incorrectly located per recent FAA design criteria or do not meet standard configurations. The PAPI's on Runway 4R-22L have also reached the end of their useful lives. This project is the second of two phases of guidance signage replacement at the Airport.

The scope of work consists of Consultant, with its sub-consultants, providing construction administration, inspection services, and quality assurance testing for the replacement and/or upgrades of approximately 87 airfield guidance signs and the replacement of the Precision Approach Path Indicators (PAPI's) on Runway 4R-22L at the Chandler Municipal Airport.

A Construction Contract, Project No. AI1502.401, to Rural Electric, Inc., for Airport Guidance Sign and PAPI Replacement, is also scheduled for this Council meeting.

8. EVALUATION: This project is being performed under the On-call Airport Facilities and Infrastructure design Services Contract No. EN1005.101, to Dibble Engineering. The costs proposal for this project has been evaluated by Staff and is determined to be reasonable. The contract completion time is 180 calendar days following Notice to Proceed.

9. FINANCIAL IMPLICATIONS:

Cost: \$97,973.00
90 percent of project costs will be funded with an Arizona Department of Transportation airport improvement grant.

Savings:

Long Term Costs:

Fund Source:

<u>Account No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
417.4110.6910.0.6AI1502	Airport Capital Grant	Airport Guidance Sign and PAPI Replacement	Yes	\$88,175.70
635.4110.6910.0.6AI1502	Airport Capital	Airport Guidance Sign and PAPI Replacement	Yes	\$9,797.30

10. PROPOSED MOTION: Move that City Council award a project agreement to Dibble Engineering, for Construction Management Services for Airport Guidance Signs & Runway 4R/22L Precision Approach Path Indicators (PAPI) Replacement Project AI1502.451, pursuant to On-call Airport Facilities and Infrastructure design Services Contract No. EN1005.101, in an amount not to exceed \$97,973.00.

ATTACHMENTS: Project Agreement

APPROVALS

11. Requesting Department

Chris Andres, Airport Administrator

13. Department Head

Marsha Reed, Assistant City Manager

12. Transportation & Development



Bob Fortier, Capital Projects Manager

14. Acting City Manager



Marsha Reed

**PROJECT AGREEMENT
PURSUANT TO ANNUAL CONTRACT NO. EN1005.101**

PROJECT AGREEMENT NO: AI1502.451

This PROJECT AGREEMENT is made this _____ day of _____, 2016, by and between the City of Chandler, a municipal corporation (hereinafter referred to as "CITY") and Dibble & Associates Consulting Engineers, Inc. an Arizona corporation doing business as Dibble Engineering, Inc., (hereinafter referred to as "Annual Consultant") and is a project agreement entered into pursuant to Annual Contract No. EN1005.101.

CITY and Dibble Engineering, in consideration of the mutual covenants herein set forth, agree as follows:

ARTICLE 1 - DESCRIPTION OF WORK:

This project is Airport Guidance Sign and Runway 4R/22L PAPI Replacement Construction Management Services, Project Number AI1502.451. The scope of work consists of construction management for the Airport Guidance Sign and Runway 4R/22L PAPI Replacement project, 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 Ninety Seven Thousand Nine Hundred Seventy Three Dollars (\$97,973) determined and payable as set forth in Annual Contract EN1005.101 and Exhibit B attached hereto and made a part hereof by reference.

ARTICLE 3 - CONTRACT TIME:

The contract time is One Hundred Eighty calendar days and Annual Consultant agrees to complete all work within One Hundred Eighty (180) calendar days of the date CITY issues a Notice to Proceed.

ARTICLE 4 - GENERAL:

This Project Agreement is entered into pursuant to Annual Contract No. EN1005.101 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 Project Agreement on the day and year first written above.

This Project Agreement will be effective on this _____ day of _____, 2016.

CITY OF CHANDLER

FOR THE ANNUAL:

MAYOR DATE:

By: Steven E Rex
Title: COO

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

ADDRESS FOR NOTICE
Mr. Steve Rex
Dibble Engineering
7500 N. Dreamy Draw Dr., Ste. 200
Phoenix, AZ 85020

APPROVED AS TO FORM:

Phone: 602-957-1155

City Attorney By: CA

ATTEST:

City Clerk

EXHIBIT A SCOPE OF WORK

ANNUAL CONSULTANT, in conjunction with its subconsultants, shall provide construction administration and inspection services for the replacement and/or upgrades of approximately 87 airfield guidance signs at Chandler Municipal Airport, as well as the replacement of the Precision Approach Path Indicators (PAPI's) on Runway 4R-22L. A number of the signs being replaced have reached the end of their useful lives, and are either incorrectly located per recent FAA design criteria or do not meet standard configurations. The PAPI's on Runway 4R-22L have also reached the end of their useful lives. The construction contract duration is estimated to be approximately 84 calendar days.

ANNUAL CONSULTANT shall provide the following specific services for this project:

A. Construction Management and Engineering Support Services (Annual Consultant)

1. Construction Phase Services: Annual Consultant will provide overall coordination of the team and coordination with the City of Chandler/Airport. Annual Consultant staff will provide the following services:
 - a. Prepare for, coordinate, and attend Pre-Construction Conference.
 - b. Review and respond to the following Contractor requests:
 - i. General and civil-related Shop Drawings requiring Engineering review, estimated at a total of 15. (Electrical-related Shop Drawings will be reviewed by CR Engineers; see Section B. below.)
 - ii. General and civil-related Requests for Information (RFI's), estimated at a total of 10. (Electrical-related RFI's will be reviewed by CR Engineers; see Section B. below.)
 - c. Administration of weekly construction meetings and development of meeting minutes, and attendance to project site visits (anticipated to generally occur the same day as construction meetings). The anticipated construction duration for this project is 84 calendar days; therefore, the estimated total number of construction meetings is 12.
 - d. Review and processing of Contractor Pay Applications (up to 4 anticipated).
 - e. Review instances of unforeseen conditions and/or contractor-requested change orders, and processing required paperwork for changed conditions.
 - f. Attend the Post-Phase Substantial Completion walkthrough after each phase of work is substantially complete (4 phases/walkthroughs) and a Final walk-through meeting and generate the Preliminary and Final Punchlists.
 - g. Prepare Final Record Drawings based on Contractor redlines and field changes issued during construction. Record Drawing submittal will include 1-full size set of mylars and electronic (PDF) versions of the final Record Drawings and the Contractor redlines.
 - h. Prepare Engineer's Final Construction Report documenting the history and final project outcomes.

B. Construction Inspection Services (CR Engineers)

Under the coordination of Annual Consultant, CR Engineers will provide day-to-day Construction Inspection Services, including:

1. Review and respond to the following Contractor requests:
 - a. Electrical-related Shop Drawings requiring Engineering review, estimated at a total of 44 (44 individual sign shop drawings, but could be up to 87 dependent on Contractor's approach to submission of shop drawings – see Section D. below).

- b. Electrical-related Requests for Information (RFI's), estimated at a total of 5.
2. Construction monitoring and documentation of quantities.
3. Daily construction inspection (based on a 84-calendar day duration), including providing daily reports of activities and observations, measurement and documentation of quantities on a daily basis, monitoring the Contractor's quality control testing, notifying the Contractor of deficiencies in the work, and observing and documenting unforeseen and/or changed conditions.
4. Project Close-out services, including substantial and final completion walkthroughs, review of final quantities, review of Contractor red-line as-built drawings, development of electrical Record Drawing sheets, and assistance to Annual Consultant in the development of the Engineer's Final Construction Report.

See CR Engineers' Scope of Services (attached) for additional detail.

C. Quality Assurance Testing (Allowance – Speedie & Associates)

In the event that the Contractor's Quality Control Testing requires supplemental assurance testing, such testing will be provided on an as-needed basis for acceptance of the following materials:

1. Embankment/Earthwork/Grading
2. Erosion Control Material (Acrylic Polymer)
3. Structural Portland Cement Concrete
4. Controlled Low-Strength Material (Slurry)

It is expected that the Contractor will submit his Quality Control Testing results to Annual Consultant as soon as the results are compiled for timely evaluation of placed/installed materials.

D. Owner's Allowance (Additional Submittals/Shop Drawings/RFI's – CR Engineers)

This item is provided in the event the number of Contractor submittals, shop drawings, RFI's, etc. exceeds the anticipated number of these documents scoped above in Section B.

E. Miscellaneous

1. Construction staking is not included in this Scope of Work.
2. The successful Contractor will be responsible for performing his own Quality Control, and will provide all Quality Control results and reports to the City and Annual Consultant for timely review.

EXHIBIT B FEE SCHEDULE

	PRINCIPAL	SR. PROJECT MANAGER	PROJECT MANAGER	SENIOR ENGINEER	ENGINEER (P.E.)	ASSISTANT ENG. (E.I.T.)	TECHNICIAN	ADMIN. ASSISTANT	TOTAL HOURS
CONSTRUCTION PHASE SERVICES									
1. Project Management and Coordination		22						4	26
2. Pre-Construction Conference Activities		4			8				12
3. Submittal/Shop Drawing Reviews (15)		4		4	12	6			26
4. Contractor RFI's (10)		2		4	10		6		22
5. Construction Meetings/Site Visits (12)		18			60				78
6. Contractor Pay Application Coord. (4)		2		8					10
7. Unforeseen Cond's/Change Order Coord.		4			12				16
8. Post-Phase Substantial Completion Walks (4)		4			16				20
9. Final Completion Walk		4			4				8
10. Record Drawings		2			4		14		20
11. Final Construction Report		2		4	16	4		4	30
TOTAL CONSTRUCTION PHASE HOURS	0	68	0	20	142	10	20	8	268
LABOR FEE BY TASK	\$154.00	\$146.00	\$137.00	\$126.00	\$121.00	\$95.00	\$82.00	\$49.00	
	PRINCIPAL	SR. PROJECT MANAGER	PROJECT MANAGER	SENIOR ENGINEER	ENGINEER (P.E.)	ASSISTANT ENG. (E.I.T.)	TECHNICIAN	ADMIN. ASSISTANT	TOTAL TASK FEE
CONSTRUCTION PHASE SERVICES									
1. Project Management and Coordination		\$3,212.00						\$196.00	\$3,408.00
2. Pre-Construction Conference Activities		\$584.00			\$968.00				\$1,552.00
3. Submittal/Shop Drawing Reviews (15)		\$584.00		\$504.00	\$1,452.00	\$570.00			\$3,110.00
4. Contractor RFI's (10)		\$292.00		\$504.00	\$1,210.00		\$492.00		\$2,498.00
5. Construction Meetings/Site Visits (12)		\$2,628.00			\$7,260.00				\$9,888.00
6. Contractor Pay Application Coord. (4)		\$292.00		\$1,008.00					\$1,300.00
7. Unforeseen Cond's/Change Order Coord.		\$584.00			\$1,452.00				\$2,036.00
8. Post-Phase Substantial Completion Walks (4)		\$584.00			\$1,936.00				\$2,520.00
9. Final Completion Walk		\$584.00			\$484.00				\$1,068.00
10. Record Drawings		\$292.00			\$484.00		\$1,148.00		\$1,924.00
11. Final Construction Report		\$292.00		\$504.00	\$1,936.00	\$380.00		\$196.00	\$3,308.00
TOTAL CONSTRUCTION PHASE FEE	\$0.00	\$9,928.00	\$0.00	\$2,520.00	\$17,182.00	\$950.00	\$1,640.00	\$392.00	\$32,612.00
DIRECT COSTS									
CONSTRUCTION PHASE SERVICES									
1. Submittal Printing		\$300.00							
2. Mileage		\$800.00							
Total - Direct Costs		\$1,100.00							
ALLOWANCE/SUB-CONSULTANT COSTS									
CONSTRUCTION PHASE SERVICES									
1. Construction Inspection (CR Engineers)									\$56,261.00
2. Quality Assurance Testing (Speedie - Allowance)									\$3,000.00
2. Owner's Allowance (Add'l Submittals/RFI's - CR Engineers)									\$5,000.00
									Total - Construction Phase Services \$64,261.00
FEE SUMMARY									
Dibble Engineering Fee		\$32,612.00							
Direct Costs		\$1,100.00							
Allowance/Sub-Consultant Costs		\$64,261.00							
TOTAL CONTRACT AMOUNT		\$97,973.00							