



**PURCHASING ITEM  
FOR  
COUNCIL AGENDA  
Memo No. CA09-050**

**1. Agenda Item Number:**

**30**

**2. Council Meeting Date:**  
August 28, 2008

**TO: MAYOR & COUNCIL**

**3. Date Prepared:** July 31, 2008

**THROUGH: CITY MANAGER**

**4. Requesting Department:** Public Works

**5. SUBJECT:** Approval of Contract Amendment No. 4 in the amount of \$54,995 to the design services contract with Engineering and Environmental Consultants, Inc. for the Dobson Road/Chandler Boulevard Intersection Improvement, Project No. ST0503-201, for a revised contract total of \$994,134.

**6. RECOMMENDATION:** Staff recommends Council approve Contract Amendment No. 4 in the amount of \$54,995 to the design services contract with Engineering and Environmental Consultants, Inc. for the Dobson Road/Chandler Boulevard Intersection Improvement, Project No. ST0503-201, for a revised contract total of \$994,134.

**7. BACKGROUND/DISCUSSION:** The intersection improvements are required to relieve congestion at this high traffic volume, major arterial intersection. The project consists of the design and preparation of contract documents for intersection widening to provide three thru lanes in each direction, right turn lanes, bus bays, queue jumper lanes for bus rapid transit on Chandler Boulevard, dual left turn lanes, bike lanes, storm drainage/retention, utility relocation, new traffic signals, landscaping, and legal descriptions. This project also includes the addition of two auxiliary lanes on Dobson Road, median modifications, street light improvements, and a mill and overlay on Dobson Road from Chandler Boulevard to Frye Road.

This contract amendment will allow for the supplementary engineering design costs associated with the additional scope of work to reconfigure the retention basin on the west side of Dobson Road, south of the Salt River Project substation to accept all additional storm flow water runoff produced by the intersection widening; redesign the storm drain system alignment and pipe size configuration; revise drainage report to reflect the amended deficit water runoff volumes and peak flow rate calculations; and upgrade retention basin landscaping.

**8. EVALUATION:** Engineering and Environmental Consultants, Inc. were selected in accordance with established City policies and procedures. Council awarded the engineering services contract on September 8, 2004.

**9. FINANCIAL IMPLICATIONS:**

Total Design Contract:		\$ 615,031
Contract Amendment No. 1:		Time Extension Only
Contract Amendment No. 2:	(29.23%)	\$ 179,810
Contract Amendment No. 3:	(23.46%)	\$ 144,298
Contract Amendment No. 4:	( 9.00%)	\$ 54,995
Revised Contract Amount:		\$ 994,134

Savings: N/A

Long Term Costs: N/A

Fund Source:

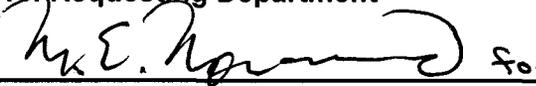
<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
411.3310.0000.6517.8ST314	GO Bonds – Streets	Dobson Chandler Intersection	FY07/08	\$54,995

**10. PROPOSED MOTION:** Move that Council approve Contract Amendment No. 4 in the amount of \$54,995 to the design services contract with Engineering and Environmental Consultants, Inc. for the Dobson Road/Chandler Boulevard Intersection Improvement, Project No. ST0503-201, for a revised contract total of \$994,134, and authorize the Mayor to sign the contract documents.

**ATTACHMENTS:** Location Map, Contract Amendment

**APPROVALS**

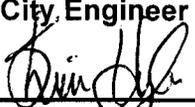
**11. Requesting Department**

 for  
Daniel W. Cook, Deputy Public Works Director

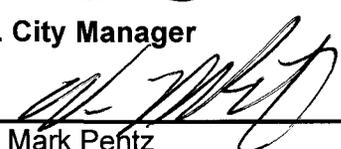
**13. Department Head**

  
R.J. Zeder, Public Works Director

**12. City Engineer**

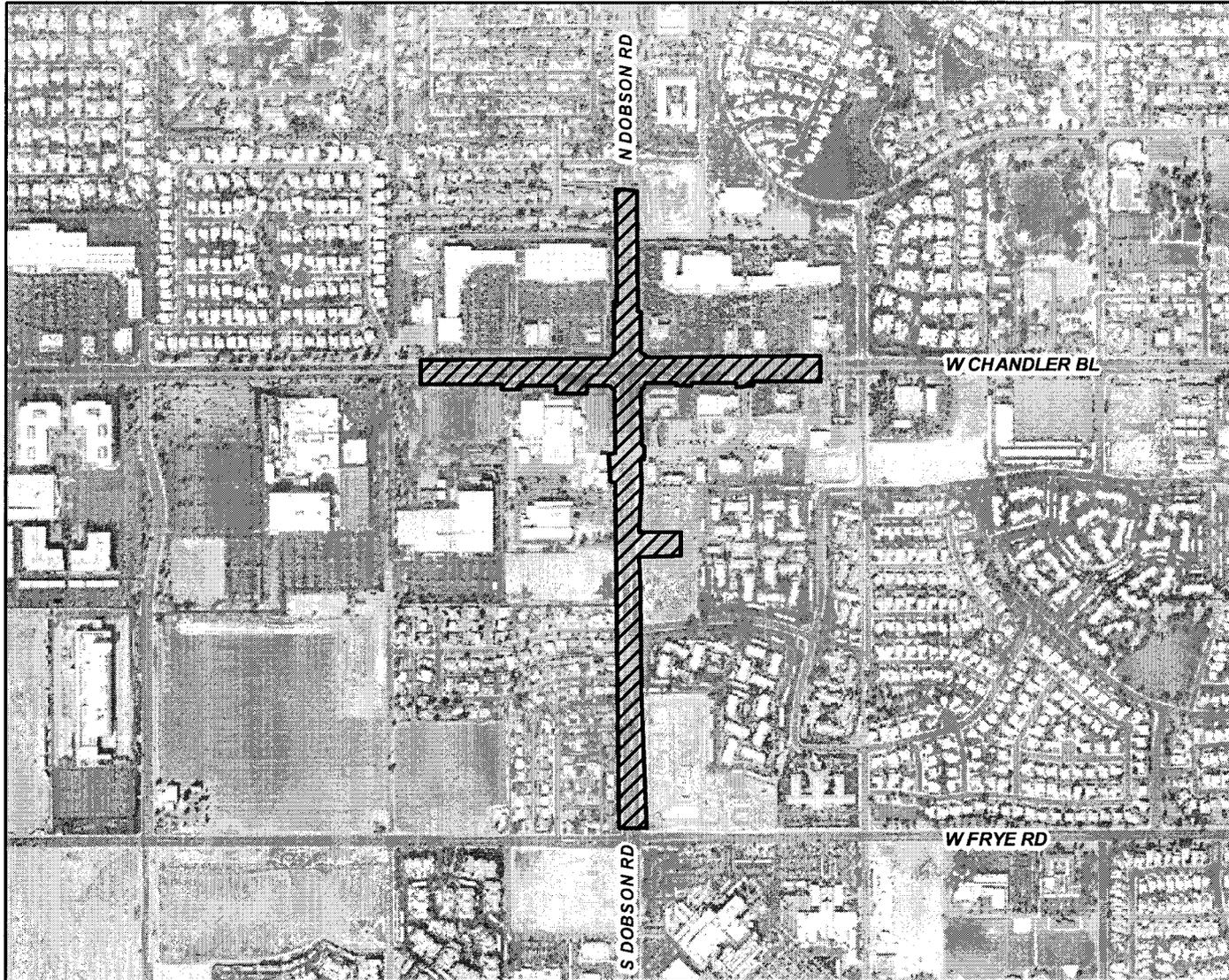
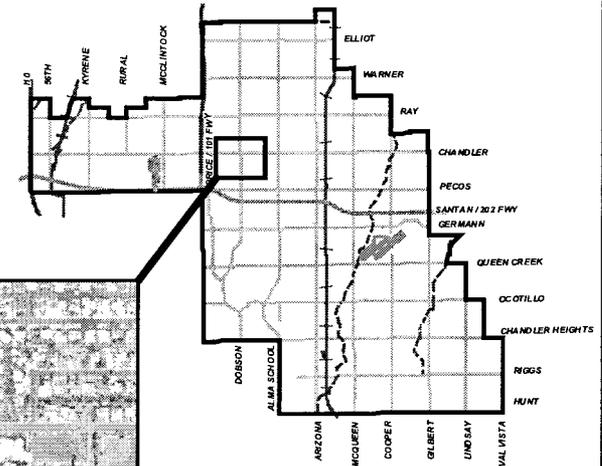
  
Sheina Hughes, Assistant Public Works  
Director/City Engineer

**14. City Manager**

  
W. Mark Peñtz



# DOBSON ROAD AND CHANDLER BOULEVARD INTERSECTION IMPROVEMENTS PROJECT NO. ST0503-201



**MEMO NO. CA09-050  
CONTRACT AMENDMENT NO. 4**

 IMPROVEMENT AREA





Chandler Arizona

AMENDMENT NUMBER 4

Project Name: Dobson Road/Chandler Boulevard Intersection Improvements
Project No.: ST0503-201

This Amendment No. 4 to that certain Agreement Between the City Of Chandler (CITY) and Engineering and Environmental Consultants, Inc., an Arizona Corporation, for Dobson Road/Chandler Boulevard Intersection Improvements dated 8, September 2004 is entered into this day of , 2008.

WHEREAS the parties have determined that it is necessary and desirable for ENGINEER to perform additional services for CITY;

NOW THEREFORE, the parties agree as follows:

- 1. Section 2 of the above referenced Agreement is hereby amended by adding additional scope of work as described in more detail in Exhibit A attached hereto and incorporated herein by reference.
2. Section 3 of the above referenced Agreement is hereby amended by increasing the total Contract Price by an amount not to exceed the sum of Fifty Four Thousand Nine Hundred Ninety Five dollars (\$54,995) all payable in accordance with Exhibit B, for a total Contract Price not to exceed the sum of Nine Hundred Ninety Four Thousand One Hundred Thirty Four dollars (\$994,134).
3. All other terms and conditions of the above referenced Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties have hereunto subscribed their names this \_\_\_ day of \_\_\_, 2008.

CITY OF CHANDLER:

By: \_\_\_\_\_
MAYOR Date

APPROVED AS TO FORM:

City Attorney
ATTEST:
City Clerk

ENGINEER:

By: [Signature]
Title: VICE PRESIDENT
ATTEST: (If corporation)

Secretary
WITNESS: (If individual or Partnership)

SEAL

Amendment No. 4 cont.

Project No. ST0503-201

**THESE CHANGES RESULT IN THE FOLLOWING ADJUSTMENTS OF CONTRACT PRICE AND TIME**

<b>ORIGINAL CONTRACT AMOUNT</b>		<b>\$ 615,031.00</b>
<b>CURRENT CONTRACT PRICE PRIOR TO THIS AMENDMENT</b> (Including previous amendments)		<b>\$ 939,139.00</b>
<b>NET INCREASE / DECREASE</b> (Resulting from this amendment)		<b>\$ 54,995.00</b>
<b>REVISED CONTRACT PRICE</b> (Including this amendment)		<b>\$ 994,134.00</b>
<b>AMENDMENT PERCENTAGE</b> (Of original contract price)		<b>9%</b>
<b>CONTRACT TIME PRIOR TO THIS AMENDMENT</b> (Including previous amendments)		<b>1,863</b> (Days or Date)
<b>NET INCREASE/DECREASE</b> (Resulting from this amendment)		<b>0</b> (Days or Date)
<b>REVISED CONTRACT TIME</b> (Including this amendment)		<b>1,863</b> (Days or Date)
THIS AMENDMENT No. _____	Does not Require Council Approval: Less than \$30,000*	_____
	More than \$30,000 but less than 10% of Contract*	_____
THIS AMENDMENT No. <u>4</u>	Requires Council Approval Greater than \$30,000*	<u>X</u>
	Greater than 10% of Contract *	_____
*Including City Manager approved Amendments		
<b>ORIGINAL CONTRACT COUNCIL DATE: 8/26/04 ITEM NO.: 11, if applicable</b>		
<b>COUNCIL APPROVAL: _____ ITEM NO: _____, if applicable</b>		

CC: City Clerk    User Dept    Project Mgr    Consultant    Project Anaylst    File

**EXHIBIT A  
SCOPE OF WORK**

The ENGINEER shall:

**Revise Drainage Report**

Annual Consultant shall recalculate the deficit volumes, the peak flow rates and the head loss calculations to determine the size of the pipeline. Annual Consultant will compare the Flood Control District criteria with the hydrograph methodology for estimating purposes in efforts to reduce the peak flow rates and thus reduce pipe sizing.

**Redesign the Storm Drain System**

The redesign of the storm drain system, including the retention basins, will consist of the following components:

- The current design of the storm drain piping system will be reevaluated based on the reduced flow rate and relocation of the retention basin. This evaluation will consider the following items:
  1. Resizing of the storm drain piping and possible realignment to eliminate and/or minimize utility conflicts.
  2. Resizing and reconfiguration of the existing retention basins to accommodate the decrease in the overall deficit volume.
  3. Revisions to the landscaping plans
- The plans will be revised to include a complete redesign of the storm drain system to account for the above items.

**Redesign and Relocation of the Retention Basin**

In accordance with the City of Chandler's direction, Annual Consultant will modify the plans and eliminate the retention basin on the west side of Dobson Road and resize and reconfigure the retention basin on the east side of Dobson Road to accept all storm flow collected by the redesigned storm drain system.

**Allowance Items**

Annual Consultant has included additional man-hours for the following items:

1. Preparation of legal description and exhibits
2. Additional Project Meetings
3. Reimbursables

**EXHIBIT B  
FEE SCHEDULE**

SCOPE OF WORK		Principal in Charge	Project Manager	Project Engineer	Engineering Designer	CAD Tech	Prof. Surveyor	Survey Manager	Field Survey-2 Man	Project Accountant	Clerical	Other Direct	TOTAL
	<b>RATE</b>	\$165	\$135	\$115	\$90	\$75	\$115	\$95	\$125	\$75	\$60		
1.0	Revise Drainage Report												
1.1	Recalculate deficit volumes, peak flows and head loss calculations		24	32	16								8,360
1.2	100% Submittal of Revised Drainage Report	4	24	24	16	16					4		9,540
2.0	Plans, Specifications and Estimates												
2.1	Redesign storm drain system	4	16	16	24	32							9,220
2.2	Relocation and Revisions to Retention Basin		16	24	24	32		4	8				10,860
2.3	Revise Landscape Plans		8	24		32				4			6,540
3.0	ROW/Legal Descriptions and Utility Coordination		8	8			8	8					3,680
4.0	Project Meetings	8	16	16									5,320
5.0	Reimbursables											\$ 1,475	1,475
	<b>GRAND TOTALS =</b>	16	112	144	80	112	8	12	8	4	4		54,995