

**CITY OF PEORIA, ARIZONA  
COUNCIL COMMUNICATION**

CC: 12C  
Amend No. \_\_\_\_\_

Date Prepared: December 21, 2007

Council Meeting Date: January 15, 2008

**TO:** Terry Ellis, City Manager

**FROM:** David A. Moody, P. E., Engineering Director

**THROUGH:** Dan Nissen, P. E., Assistant City Engineer

**PREPARED BY:** Ben Wilson, P.E., Civil Engineer

**SUBJECT:** Approval of the expenditure of funds to CS Construction, Inc., for Contract Amendment No. 1 for the construction of the 91<sup>st</sup> Avenue and Monroe Intersection Improvement Project, (Engineering Project No. TS-0603, Town of Gilbert JOC Contract No. 4 (December 5, 2006), CS Construction Project No. 426B.)

**RECOMMENDATION:**

That Mayor and Council approve the expenditure of funds to CS Construction, Inc., for Contract Amendment No. 1 utilizing the existing Job Order Contract No. 4, Traffic Signals at Various Locations, between the Town of Gilbert and CS Construction, in the amount of \$218,875.00 for the construction of the 91<sup>st</sup> Avenue and Monroe Intersection Improvement Project.

Payment will be from the Intersection Development Zone One Fund Street System Account 7004-7054-543001-CIPST-EN00211CO.

**SUMMARY / BACKGROUND:**

In August 2004, the City finalized an Access Control and Corridor Study for 91<sup>st</sup> Avenue from Olive Avenue to Peoria Avenue. As part of the study, it was determined that the intersection of 91<sup>st</sup> Avenue and Monroe Street currently meets warrants for signalization. The existing intersection of 91<sup>st</sup> Avenue and Monroe Street is an un-signalized intersection.

**CITY CLERK USE ONLY:**

- Consent Agenda
- Carry Over to Date: \_\_\_\_\_
- Approved
- Unfinished Business (Date heard previous: \_\_\_\_\_)
- New Business
- Public Hearing: No Action Taken

ORD. # \_\_\_\_\_ RES. # \_\_\_\_\_  
LCON# \_\_\_\_\_ LIC. # \_\_\_\_\_  
Action Date: \_\_\_\_\_

91<sup>st</sup> Avenue is classified as a major arterial street and has a cross-section of two lanes in each direction with a two-way left turn lane, and sidewalks along the east and west sides of 91<sup>st</sup> Avenue, with the exception of the sidewalk along the east side of 91<sup>st</sup> Avenue north from Monroe Street to 90<sup>th</sup> Drive, which does not exist due to the close proximity of several houses and walls to the back of curb and lack of right-of-way (ROW).

Monroe Street is classified as a collector street and has a cross section consisting of two lanes with bike lanes in each direction, and has a posted speed limit of 24 mph. Monroe Street has sidewalk extending easterly along the north side only. The west side of the intersection is the Sears commercial access.

The design of the traffic signal and intersection improvements were recently completed to 100%. Specifically, the construction project consists of the following improvements:

1. Construction of the traffic signal
2. Modify the handicap ramps at the northeast and southeast corners
3. Remove and replace the existing wall to the limits of the newly acquired ROW
4. Replace the existing landscape and irrigation system as disturbed during construction at all corners of the project
5. Remove one street light
6. Obliterate existing striping
7. Paint new striping and signage
8. Acquisition of ROW at the northeast corner and northwest corner of the intersection
9. Acquisition of a Temporary Construction Easement (TCE) over the west leg of the intersection

The necessary ROW at the northeast corner has been acquired. The Acquisition Agreement requires the City to modify the existing wall and landscape material. The ROW at the northwest corner and the temporary construction easement on the west leg of the intersection is currently being acquired.

Staff has coordinated with Materials Management to utilize the Job Order Contracting (JOC) to provide construction services for constructing intersection improvements. JOC is an alternative delivery method for construction services. Typical work includes minor construction, repair and rehabilitation. Currently The Town of Gilbert has a JOC Contract with CS Construction, Inc. for the construction of traffic signals at various locations in their CIP program. The Contract allows for other agencies, upon written approval by the Town of Gilbert and CS Construction, to utilize the existing JOC contract for use on similar projects in their jurisdiction. The City of Peoria Materials Management has since received the required approvals from the Town of Gilbert and CS Construction and is allowing staff to utilize this JOC contract.

Council Communication  
91<sup>st</sup> Avenue and Monroe Intersection Improvements  
TS-0603  
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Under JOC, a master contract is established with standard specifications and pricing based upon a coefficient that is applied to a Unit Price Book (UPB) as included in the JOC contract. When a specific project, or job order, is issued, the member and the contractor agree upon the scope and the cost is determined by applying the coefficient to the appropriate units in the UPB.

The implementation schedule for construction of the 91<sup>st</sup> Avenue and Monroe Street intersection improvements is provided below:

1. Construction is expected to begin in April 2008 after the long lead items are delivered, permits and insurance are processed and the ROW and easements are acquired.

**CONTRACT SUMMARY:**

The first JOC contract with CS Construction for this project went to Council October 2, 2007 for the purchase of long lead items in the amount of \$156,530.

The second JOC (Contract Amendment No. 1) in the amount of \$218,875.00 is for the construction of traffic signal and all incidental work.

**REVISED CONTRACT AMOUNT SUMMARY:**

October 2, 2007	\$156,530.00
January 15, 2008 JOC (Contract Amendment No. 1)	<u>\$218,875.00</u>
Revised Contract Amount:	\$375,405.00

**ATTACHMENT:**

1. Exhibit A – 91<sup>st</sup> Avenue & Monroe Street Signal Installation Location
2. Proposal

Exhibit A



91<sup>st</sup> and Monroe Signal Installation

# Traffic Signal Unit Price JOC BOOK

(basis of pricing Technical Proposals)

## CS CONSTRUCTION, INC - PROPOSAL

City of Peoria JOC  
CSCI JOB NO. 426B  
LOCATION: 91st Ave Monroe Street

Item	Description	Quantity	Unit	Job Book Unit Price	Proposed Coefficient	Contract Unit Price	Total Price
1	Survey & Staking (all equipment & material @ site)	60	hr	\$ 140.00	120%	\$ 168.00	\$ 10,080.00
14	Install Signal Pole (Type A)	2	each	\$ 400.00	120%	\$ 480.00	\$ 960.00
18	Install Signal Pole (Type Q)	4	each	\$ 900.00	120%	\$ 1,080.00	\$ 4,320.00
23	Install 30' Signal Mast Arm	2	each	\$ 600.00	120%	\$ 720.00	\$ 1,440.00
24	Install 35' Signal Mast Arm	1	each	\$ 750.00	120%	\$ 900.00	\$ 900.00
25	Install 40' Signal Mast Arm	1	each	\$ 900.00	120%	\$ 1,080.00	\$ 1,080.00
32	Install Controller, Cabinet & Foundation	1	each	\$ 4,200.00	120%	\$ 5,040.00	\$ 5,040.00
35	Install 20' Luminaire Mast Arm	4	each	\$ 400.00	120%	\$ 480.00	\$ 1,920.00
37	Relocate Existing Street Light	1	each	\$ 1,400.00	120%	\$ 1,680.00	\$ 1,680.00
38	Install New Type "F" Signal Heads	9	each	\$ 340.00	120%	\$ 408.00	\$ 3,672.00
39	Install New Type "M/H" Signal Heads	8	each	\$ 150.00	120%	\$ 180.00	\$ 1,440.00
40	Install New Pedestrian Push Buttons	8	each	\$ 75.00	120%	\$ 90.00	\$ 720.00
41	Install ADOT Type II Mounting Assembly	8	each	\$ 40.00	120%	\$ 48.00	\$ 384.00
53	Furnish & Install No. 7 Pull Box	3	each	\$ 450.00	120%	\$ 540.00	\$ 1,620.00
54	Furnish & Install No. 7 Ext. Pull Box	1	each	\$ 500.00	120%	\$ 600.00	\$ 600.00
56	Furnish & Install 1 - 3" PVC Conduit (directional boring)	250	lf	\$ 30.00	120%	\$ 36.00	\$ 9,000.00
57	Furnish & Install 1 - 3" PVC Conduit (trenching)	100	lf	\$ 21.00	120%	\$ 25.20	\$ 2,520.00
58	Furnish & Install 2 - 3" PVC Conduits (directional boring)	100	lf	\$ 37.00	120%	\$ 44.40	\$ 4,440.00
63	Furnish & Install 1 - 2 1/2" Conduit (trenching)	50	lf	\$ 18.00	120%	\$ 21.60	\$ 1,080.00
75	Furnish & Install IMSA Conductors (4 leg Intersection)	1	L Sum	\$ 7,500.00	120%	\$ 9,000.00	\$ 9,000.00
77	Furnish & Install 8" Solid White Thermoplastic markings	870	lf	\$ 1.50	120%	\$ 1.80	\$ 1,566.00
79	Furnish & Install 12" Solid White Thermoplastic markings	635	lf	\$ 2.88	120%	\$ 3.46	\$ 2,194.56
87	Removal of Existing Striping & Markings	850	lf	\$ 2.50	120%	\$ 3.00	\$ 2,550.00
88	Furnish & Install Left or Right Turn Arrow Marking Thumo.	5	each	\$ 400.00	120%	\$ 480.00	\$ 2,400.00
106	Utility Pot Hole - 4 way Intersection	1	L Sum	\$ 3,900.00	120%	\$ 4,680.00	\$ 4,680.00
107	Install Sidewalk Concrete Mag. Det. 230	142	lf	\$ 8.00	120%	\$ 9.60	\$ 1,363.20
109	Install Curb & Gutter mag. Det 220 type A	72	lf	\$ 17.50	120%	\$ 21.00	\$ 1,512.00
110	Install Valley Gutter Apron mag 240	293	sf	\$ 17.00	120%	\$ 20.40	\$ 5,977.20
111	Remove & Dispose Sidewalk & Sidewalk Ramp Concrete	485	sf	\$ 8.00	120%	\$ 9.60	\$ 4,656.00
113	Remove & Dispose Curb & Gutter	133	lf	\$ 11.00	120%	\$ 13.20	\$ 1,755.60
114	Remove & Dispose Valley Gutter & Apron	248	sf	\$ 11.00	120%	\$ 13.20	\$ 3,273.60
116	Furnish & Install 2" of 1/2" minus Decomposed Granite	500	sy	\$ 4.00	120%	\$ 4.80	\$ 2,400.00
133	Install Only Type Q Head	4	ea	\$ 360.00	120%	\$ 432.00	\$ 1,728.00
135	Install Only Type VII Mount	4	ea	\$ 180.00	120%	\$ 216.00	\$ 864.00
140	3-3" Trenching	15	lf	\$ 28.00	120%	\$ 33.60	\$ 504.00
142	Excavate Bell Hole for APS Entrance to Transformer	1	ea	\$ 250.00	120%	\$ 300.00	\$ 300.00
154	Reinstall Existing Street Light Pole	1	ea	\$ 650.00	120%	\$ 780.00	\$ 780.00
155	Remove Existing Street Light Pole	1	ea	\$ 500.00	120%	\$ 600.00	\$ 600.00
156	Type "C" or D Raised Reflective Pavement Markers	134	ea	\$ 35.00	120%	\$ 42.00	\$ 5,628.00
158	Remove & Salvage Existing Signs	5	ea	\$ 10.00	120%	\$ 12.00	\$ 60.00
160	Furnish & Install Pole Apron per detail B	4	ea	\$ 950.00	120%	\$ 1,140.00	\$ 4,560.00
162	Furnish & Install Roadway Sign Post	36	lf	\$ 8.50	120%	\$ 10.20	\$ 367.20
163	Furnish & Install Roadway Sign Foundation	3	ea	\$ 250.00	120%	\$ 300.00	\$ 900.00
164	Install ADOT Type XI Mounting Assembly	5	ea	\$ 130.00	120%	\$ 156.00	\$ 780.00
165	Community Relations	1	ls	\$ 12,760.00	120%	\$ 15,312.00	\$ 15,312.00
166	Mob/Demob.	1	ls	\$ 7,500.00	120%	\$ 9,000.00	\$ 9,000.00
167	Sidewalk Ramp MCDOT 2031-B	1	ea	\$ 2,500.00	120%	\$ 3,000.00	\$ 3,000.00
168	Sidewalk Ramp ADOT C-05.30 type C	1	ea	\$ 2,500.00	120%	\$ 3,000.00	\$ 3,000.00
169	Sidewalk Ramp Retrofit MCDOT 2030-A	2	ea	\$ 2,500.00	120%	\$ 3,000.00	\$ 6,000.00
170	Remove Conc. Block Wall 4" footing compact & backfill	35	lf	\$ 100.00	120%	\$ 120.00	\$ 4,200.00
171	Landscape & Irrigation	1	allow	\$ 46.00	120%	\$ 55.20	\$ 55.20
172	Masonry block privacy wall	132	sf	\$ 33.00	120%	\$ 39.60	\$ 5,227.20
173	As-Builts	1	ls	\$ 2,500.00	120%	\$ 3,000.00	\$ 3,000.00
174	4" White Traffic Paint Stripe	353	lf	\$ 0.75	120%	\$ 0.90	\$ 317.70
175	4" Yellow Traffic Paint Stripe	1083	lf	\$ 0.75	120%	\$ 0.90	\$ 974.70
176	Flat Sheet Alum. Sign high intensity	28.5	sf	\$ 12.00	120%	\$ 14.40	\$ 410.40
177	Peoria pull box and vault PE-034	1	ea	\$ 1,000.00	120%	\$ 1,200.00	\$ 1,200.00
178	Peoria pull box and vault PE-036	1	ea	\$ 2,500.00	120%	\$ 3,000.00	\$ 3,000.00

SUBTOTAL \$167,992.56

121	TRAFFIC CONTROL - 20% OF CONSTRUCTION COST INCL. OFF DUTY POLICE (THIS HAS BEEN INCREASED TO INCORPORATE THE LONG LEAD ITEM DOLLARS)	1	LS	20%	120%	24%	\$40,318.21
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**Traffic Signal  
Unit Price JOC BOOK**  
(basis of pricing Technical Proposals)

BASED ON PLANS BY: Parsons Brickerhoff

SUBTOTAL \$208,310.77

SALES TAX - 65% OF 7.8% \$10,561.356

ESTIMATOR: Sheldon Lincoln

PROJECT TOTAL \$218,872.13