

**CITY OF EL PASO, TEXAS**  
**DEPARTMENT HEAD'S SUMMARY REQUEST FOR COUNCIL ACTION (RCA)**

**DEPARTMENT:** Engineering

**AGENDA DATE:** 06/23/09

**CONTACT PERSON/PHONE:** R. Alan Shubert, P.E., City Engineer, (X-4423)

**DISTRICT(S) AFFECTED:** Citywide

**SUBJECT:**

CITY OF EL PASO FIBER OPTIC NETWORK PHASE II, BID No. 2009-242

**BACKGROUND / DISCUSSION:**

The intent of this project is to create a Wide Area Network by interconnecting the City of El Paso facilities to a fiber optic main trunk "Transtelco", through the installation of fiber optic and computer communications network equipment in several locations citywide.

This installation will include:

- Replace part of copper with fiber optic.
- Install communication in areas where no communication currently exists (bore or trench new conduit and fiber and install fiber inside buildings).
- Install or replace ground boxes.
- Splice fiber optics.
- Restore pavement, concrete, sidewalks and landscape.
- Identify utilities (line spotting)

The installation of the infrastructure will allow Information Technology (IT) capabilities for the installation of computer equipment, voice over IP and video surveillance.

**PRIOR COUNCIL ACTION:**

N/A

**AMOUNT AND SOURCE OF FUNDING:**

Funding source is: 14200500 – 508027 – 27264 – PSTM06 PW542  
Storm 2006 Certificates of Obligation (Balance \$29,500,000)

**BOARD / COMMISSION ACTION:**

N/A

\*\*\*\*\* REQUIRED AUTHORIZATION \*\*\*\*\*

**LEGAL:** (if required) \_\_\_\_\_ **FINANCE:** (if required) \_\_\_\_\_

**DEPARTMENT HEAD:** \_\_\_\_\_

(Example: if RCA is initiated by Financial Services, client department should sign also)

*Information copy to appropriate Deputy City Manager*

**APPROVED FOR AGENDA:**

**CITY MANAGER:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**CONSTRUCTION PROJECT FORM**  
**Unit Price**

**DATE:** 06/17/09  
**PROJECT:** City of El Paso Fiber Optic Network Phase II  
**SOLICITATION NO:** 2009-242  
**ACCOUNT NO(S):** 14200500 – 508027 – 27264 – PSTM06 PW542  
**FUNDING SOURCE:** Storm 2006 Certificates of Obligation  
**DEPARTMENT:** Engineering  
**DISTRICT(S):** Citywide **LOCATION:** Citywide

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**Lowest responsible bidder**

**AGENDA DATE:** 06/23/09

**CONTRACTOR:** Tri-State Electric, Ltd.

**TOTAL ESTIMATED AMOUNT:** \$2,578,756.05

**RECOMMENDATION:**

Discussion and action on the award of Solicitation No. 2009-242 for the Fiber Optic Network Phase II, to Tri-State Electric, Ltd., for a total estimated amount of \$2,578,756.05.

It is requested that the City Manager of the City of El Paso be authorized to sign any contracts or other documents required to effectuate this award.

Work under this unit price contract is only an estimated value and will be ordered, performed, invoiced, and paid by measured quantity. The actual cost of this contract may be higher or lower than the total estimated value and will be the sum total of unit prices at the end of the contract term.

As a part of this award, upon the review of the City Attorney, the City Engineer may without further authorization from City Council approve contract changes which are necessary for proper execution of the work and carrying out the intent of the project, which are in accordance with applicable law, do not make changes to the prices and are within the appropriate budget.

This is a low bid, unit-price contract. The Engineering Department recommends award as indicated to the lowest responsible bidder.

**DESCRIPTION OR EXPLANATION:**

**Base Bid I:** \$2,578,756.05

**TOTAL ESTIMATED AWARD:** \$2,578,756.05

**TIME FOR COMPLETION:** 730 Consecutive calendar days for substantial completion

**LIQUIDATED DAMAGES:** \$480.00/Consecutive work day after substantial completion date

**Twelve (12) months additional term**

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**APPROVED:**

  
\_\_\_\_\_  
R. Alan Shubert, P.E.  
City Engineer

## PROJECT SCOPE

**TITLE: CITY OF EL PASO FIBER OPTIC NETWORK PHASE II**

**LOCATION :** Citywide

### **GENERAL DESCRIPTION:**

The intent of this project is to create a Wide Area Network by interconnecting the City of El Paso facilities to a fiber optic main trunk "Transtelco", through the installation of fiber optic and computer communications network equipment in several locations citywide.

This installation will include:

- Replace part of copper with fiber optic.
- Install communication in areas where no communication currently exists (bore or trench new conduit and fiber and install fiber inside buildings).
- Install or replace ground boxes.
- Splice fiber optics.
- Restore pavement, concrete, sidewalks and landscape.
- Identify utilities (line spotting)

The installation of the infrastructure will allow Information Technology (IT) capabilities for the installation of computer equipment, voice over IP and video surveillance.

The project consists of two main parts:

***Interconnection of Systems:*** The systems will be interconnected to the City Hall IT Department. The City of El Paso IT Department shall determine where individual sites shall be connected.

***Interconnection of Facilities:*** The facilities will be interconnected to the systems in the following manner:

This contract shall also include the testing and integration of the fiber optic connectivity to the Transtelco's main trunk. The connectivity point to point must be completed, tested and verified.

Other construction elements include demolition of sidewalk, curb and gutter, pavement (concrete and/or sidewalk), concrete slabs, landscaping, irrigation, trees, and shrubs. The demolition of the above listed items shall be replaced with items of similar size and type.

The contract includes all labor, materials, traffic control in accordance with the latest Manual of Uniform Traffic Control Devices (MUTCD), tools necessary for installation of the fiber optic network, utility line spotting, utility coordination, storm water pollution prevention plan. All labor, material, traffic control and mobilization costs shall be built in on ALL unit price items.

**Notes:**

The contractor shall respond to a request for a cost proposal within two (2) working days of such request. A separate notice to proceed will be issued for each job locality and shall indicate a completion date for work. The Owner has the option to issue concurrent notices to proceed on different work requests. Liquidated damages apply to each job locality and associated notice to proceed.

- A. This is a unit price requirements contract.  
Contractor shall provide Performance and Payment bonds for 100% value of the total estimated amount of award contract amount. The cost of these bonds will be distributed throughout the line items.

The estimated quantities indicated in the proposal are only estimated quantities. The estimated quantities do not guarantee the quantity of work for the Contractor; rather, the actual quantity of work shall be dependent on the total of all purchase orders issued to the Contractor at the sole discretion of the City. The actual quantity of work may vary from the estimated quantities herein.

**This is a unit price requirements contract.**

Dedicated to Outstanding Customer Service for a Better Community

S E R V I C E   S O L U T I O N S   S U C C E S S



# RECOMMENDATION

**Date:** June 17, 2009

**To:** Michelle K. LePage, Contract Administration  
Engineering Department

**Through:** Ted Marquez, P.E. Assistant City Engineer *C.M.*

**From:** Daniel Flores  
Traffic Engineering Associate/Project Manager

**Cc:** R. Alan Shubert, P.E, City Engineer  
Gerald Gordier, Information Technology Director

**Subject:** City of El Paso Fiber Optic network Phase II  
Solicitation No. 2009-242

We have reviewed the above subject bid and we recommend that **Base Bid** be awarded to **Tri-State Electric, Ltd.**, as the lowest most responsible bidder meeting specifications. Total estimated contract award of \$2,578,756.05.

Base Bid      \$2,578,756.05

If you have any question please call me at 541-4053.

Sincerely,

Daniel Flores  
Traffic Engineering Associate/Project Manager

Mayor  
John F. Cook

City Council

*District 1*  
Ann Morgan Lilly

*District 2*  
Susannah M. Byrd

*District 3*  
Emma Acosta

*District 4*  
Melina Castro

*District 5*  
Rachel Quintana

*District 6*  
Eddie Holguin Jr.

*District 7*  
Steve Ortega

*District 8*  
Beto O'Rourke

City Manager  
Joyce A. Wilson

## CITY OF EL PASO BID TABULATION

BID TITLE: CITY OF EL PASO FIBER OPTIC NETWORK PHASE II  
 BID DATE: JUNE 17, 2009

BID NO: 2009-242  
 DEPARTMENT: ENGINEERING

				TRI-STATE ELECTRIC, LTD. EL PASO, TEXAS		THREE C'S CONTRACTORS, INC. EL PASO, TEXAS					
ITEM #	EST. QTY	UNITS	DESCRIPTION	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL
1	200	LF	NEW CONDUIT INSTALLATION BORE (2" PVC) (SCHD 40) ITEM 618 - 2019	\$25.00	\$5,000.00	\$46.08	\$9,216.00		\$0.00		\$0.00
2	400	LF	NEW CONDUIT INSTALLATION TRENCH (2" PVC) (SCHD 40) ITEM 618 - 2018	\$10.50	\$4,200.00	\$20.91	\$8,364.00		\$0.00		\$0.00
3	24,351	LF	NEW CONDUIT INSTALLATION BORE (3" PVC) (SCHD 40) ITEM 618 - 2023	\$28.00	\$681,828.00	\$47.45	\$1,155,454.95		\$0.00		\$0.00
						Contractor's Total \$1,155,454.00					
4	51,756	LF	NEW CONDUIT INSTALLATION TRENCH (3" PVC) (SCHD 40) ITEM	\$12.50	\$646,950.00	\$22.09	\$1,143,290.04		\$0.00		\$0.00
5	10	EACH	GROUND BOX (TY D W/APRON) ITEM 624-2014	\$950.00	\$9,500.00	\$1,500.00	\$15,000.00		\$0.00		\$0.00
6	90	EACH	GROUND BOX (TY 1 W/APRON) ITEM 624-2002	\$1,250.00	\$112,500.00	\$4,500.00	\$405,000.00		\$0.00		\$0.00
7	21	EACH	GROUND BOX (TY 2 W/APRON) ITEM 624-2004	\$1,500.00	\$31,500.00	\$5,700.00	\$119,700.00		\$0.00		\$0.00
7	21	EACH	GROUND BOX (TY 2 W/APRON) ITEM 624 - 2004	\$1,500.00	\$31,500.00	\$5,700.00	\$119,700.00		\$0.00		\$0.00

APPROVED BY: *MY*

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8	85,299	LF	FIBER OPTIC CABLE SINGLE MODE (144 FIBER) ITEM ELPIT01 - 2005	\$5.00	\$426,495.00	\$3.17	\$270,397.83		\$0.00		\$0.00
						Contractor's Total \$270,398.00					
9	21	EACH	FIBER OPTIC SPLICE ENCLOSURE ITEM ELPIT01 - 2012	\$1,500.00	\$31,500.00	\$1,350.00	\$28,350.00		\$0.00		\$0.00
10	153	EACH	FIBER OPTIC CABLE ROAD MARKER, ITEM ELPIT01-2013	\$190.00	\$29,070.00	\$125.00	\$19,125.00		\$0.00		\$0.00
11	27	EACH	NEMA 4 SINGLE DOOR ENCOSURE, ITEM ELPIT01 - 2014	\$1,500.00	\$40,500.00	\$602.00	\$16,254.00		\$0.00		\$0.00
12	300	CY	EXCAVATION (SPECIAL) ITEM 110 - 2003	\$450.00	\$135,000.00	\$315.00	\$94,500.00		\$0.00		\$0.00
13	50	LF	CONDT (RM) (1") ITEM 618-2046	\$18.00	\$900.00	\$4.62	\$231.00		\$0.00		\$0.00
14	80	LF	CONDT (RM) ( 1 1/4") ITEM 618-2048	\$19.00	\$1,520.00	\$6.45	\$516.00		\$0.00		\$0.00
15	2,100	LF	CONDT (RM) (2") ITEM 618 - 2052	\$20.00	\$42,000.00	\$9.60	\$20,160.00		\$0.00		\$0.00

APPROVED BY: *mx*

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BID NO: 2009-242  
 DEPARTMENT: ENGINEERING

				TRI-STATE ELECTRIC, LTD. EL PASO, TEXAS		THREE C'S CONTRACTORS, INC. EL PASO, TEXAS					
ITEM #	EST. QTY	UNITS	DESCRIPTION	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL
16	76,299	LF	ELEC CONDR (NO.14) INSULATED ITEM 620-2018	\$1.95	\$148,783.05	\$1.66	\$126,656.34		\$0.00		\$0.00
						Contractor's Total \$76,300.00					
17	5	EACH	GROUND BOX (TY A W/APRON) ITEM 624 - 2008	\$825.00	\$4,125.00	\$4,500.00	\$22,500.00		\$0.00		\$0.00
18	5	EACH	GROUND BOX (TY C W/APRON)ITEM 624 - 2012	\$900.00	\$4,500.00	\$1,800.00	\$9,000.00		\$0.00		\$0.00
19	10	EACH	REMOVAL OF EXISTING BOXES ITEM 624 - 2034	\$600.00	\$6,000.00	\$1,536.00	\$15,360.00		\$0.00		\$0.00
20	1,000	LF	CONDUIT (PREPARE) ITEM (6086 - 2001)	\$2.50	\$2,500.00	\$3.20	\$3,200.00		\$0.00		\$0.00
21	500	LF	FIBER OPTIC CABLE SINGLE MODE (12 FIBER) ITEM ELPIT01-2001	\$2.50	\$1,250.00	\$5.14	\$2,570.00		\$0.00		\$0.00
22	500	LF	FIBER OPTIC CABLE SINGLE MODE (24 FIBER) ITEM ELPIT01-2002	\$2.95	\$1,475.00	\$6.51	\$3,255.00		\$0.00		\$0.00
				Contractor's Total \$1,450.00							

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23	500	LF	FIBER OPTIC CABLE SINGLE MODE (48 FIBER) ITEM ELPIT01-2003	\$3.25	\$1,625.00	\$6.98	\$3,490.00		\$0.00		\$0.00
24	500	LF	FIBER OPTIC CABLE SINGLE MODE (72 FIBER) ITEM ELPIT01 - 2004	\$3.95	\$1,975.00	\$12.86	\$6,430.00		\$0.00		\$0.00
25	252	EACH	FIBER OPTIC PIGTAIL (12 FIBER) ITEM ELPIT01- 2006	\$250.00	\$63,000.00	\$31.98	\$8,058.96		\$0.00		\$0.00
						Contractor's Total \$8,059.00					
26	756	LF	TEMPORARY SEDIMENT CONTROL FENCE ITEM 506 - 2034	\$10.00	\$7,560.00	\$7.00	\$5,292.00		\$0.00		\$0.00
27	100	CY	REMOVAL AND REPLACE- MENT OF REINFORCED CONCRETE PAVEMENT	\$575.00	\$57,500.00	\$396.75	\$39,675.00		\$0.00		\$0.00
28	500	LF	REMOVAL AND REPLACE- MENT OF 6" CONCRETE CURB	\$25.00	\$12,500.00	\$17.25	\$8,625.00		\$0.00		\$0.00
29	100	SY	REMOVAL AND REPLACEMENT OF 2" ASPHALT PAVEMENT, 8" CRUSTED STONE BASE, 8" COMPACT AT SUBGRADE	\$200.00	\$20,000.00	\$74.75	\$7,475.00		\$0.00		\$0.00

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ITEM #	EST. QTY	UNITS	DESCRIPTION	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL	SUM OF(UNITS)	TOTAL
30	500	SF	REMOVAL AND REPLACEMENT 4" THICK CONCRETE SIDEWALK	\$14.00	\$7,000.00	\$10.64	\$5,320.00		\$0.00		\$0.00
31	750	SF	REMOVAL AND REPLACEMENT OF LANDSCAPE	\$12.00	\$9,000.00	\$15.00	\$11,250.00		\$0.00		\$0.00
<b>SUM TOTAL BASE BID I</b>					<b>\$2,578,756.05</b>		<b>\$3,293,597.82</b>		<b>\$0.00</b>		<b>\$0.00</b>
				<b>Contractor's Total</b> \$3,653,059.00							
OPTION TO EXTEND THE TERM OF THE AGREEMENT YES OR NO A. TWELVE (12) MONTHS ADDITIONAL TERM B. NO OPTION OFFERED				YES		YES					
BID BOND SUBMITTED				YES		NO					
AMENDMENTS ACKNOWLEDGED				NONE ISSUED		NONE ISSUED					

APPROVED BY: *ML*