

**CITY OF EL PASO, TEXAS  
AGENDA ITEM  
DEPARTMENT HEAD'S SUMMARY FORM**

**DEPARTMENT:** Capital Improvement

**AGENDA DATE:** August 8, 2017

**CONTACT PERSON/PHONE:** Andrew Goh, City Engineer, (915) 212-1845  
Bruce D. Collins, Purchasing Director, (915) 212-1811

**DISTRICT(S) AFFECTED:** 7

**STRATEGIC GOAL: NO. 7** Enhance and Sustain El Paso's Infrastructure Network

**SUBJECT:**

The award of Solicitation 2017-1242 Springwood Drive Roadway Improvement to Keystone GC, LLC for an estimated total award of \$237,183.51.

**BACKGROUND / DISCUSSION:**

Springwood Drive Roadway Improvement project addresses accessibility for pedestrians and cyclists by providing traffic calming devices, signage and striping, landscaping and irrigation, parkway structures, ADA ramps and traffic signal modifications. The new improvements will provide connectivity, walkability and ease of travel for resident in the neighborhood.

**SELECTION SUMMARY:**

Solicitation was advertised on June 6, 2017 and June 13, 2017. The solicitation was posted on City website on June 6, 2017. The email (Purmail) notification was sent out on June 8, 2017 there were a total of seventy four (74) viewers. Three (3) bids were received. All of them are local vendors.

**PROTEST**

☒ No protest received for this requirement.

☐ Protest received.

**COUNCIL REPRESENTATIVE BRIEFING:**

Was a briefing provided? ☒ Yes or ☐ No  
If yes, select the applicable districts.

☐ District 1

☐ District 2

- ☐ District 3
- ☐ District 4
- ☐ District 5
- ☐ District 6
- ☒ District 7
- ☐ District 8
- ☐ All Districts

**PRIOR COUNCIL ACTION:**

N/A

**AMOUNT AND SOURCE OF FUNDING:**

190-28900-580270-4740-PCP17ST013 Street Infrastructure Plan Certificate of Obligation

**BOARD / COMMISSION ACTION:**

N/A

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

**DEPARTMENT HEAD:**

For Andy Goh

**COUNCIL PROJECT FORM  
(Low Bid)**

\*\*\*\*\***POSTING LANGUAGE BELOW**\*\*\*\*\*

Please place the following item on the **CONSENT AGENDA** for the Council Meeting of **AUGUST 8, 2017**.

**STRATEGIC GOAL: No. 7 Enhance and Sustain El Paso's Infrastructure Network**

The award of Solicitation of the award of Solicitation 2017-1242 Springwood Drive Roadway Improvement to Keystone GC, LLC for an estimated total award of \$237,183.51.

This project is within District 7 and will result in improving connectivity, walkability and ease of travel for residents in the neighborhood. Some of the features/improvements include providing traffic calming devices, signage and striping, landscaping and irrigation, parkway structures, ADA ramps and traffic signal modifications.

Department:	Capital Improvement
Award to:	Keystone GC, LLC El Paso, TX
Item(s):	All
Initial Term:	150 Consecutive Calendar Days
Base Bid I:	\$224,403.22
Option 1:	\$12,780.29
Total Estimated Award:	\$237,183.51
Account No.:	190-28900-580270-4740-PCP17ST013
Funding Source:	Street Infrastructure Plan Certificate of Obligation
District(s):	7

This is a Low bid, unit price contract.

The Purchasing & Strategic Sourcing and the Capital Improvement Departments recommend award as indicated to Keystone GC, LLC the lowest responsive, responsible bidder.

It is requested that the City Manager be authorized to establish the funding sources and make any necessary budget transfers and execute any and all documents necessary for execution of 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.

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# CITY OF EL PASO BID TABULATION FORM



BID TITLE: SPRINGWOOD DRIVE ROADWAY IMPROVEMENT BID DATE: JULY 5, 2017						BID NO: 2017-1242 DEPARTMENT: CAPITAL IMPROVEMENT					
						BLACK STALLION CONTRACTORS, INC. EL PASO, TX BIDDER 1 OF 3		KEYSTONE GC, LLC EL PASO, TX BIDDER 2 OF 3		HAWK CONSTRUCTION EL PASO, TX BIDDER 3 OF 3	
						BASE BID - UNIT PRICE SCHEDULE: SPRINGWOOD STREET IMPROVEMENTS					
ITEM #	EST QTY	UNIT	BRIEF DESCRIPTION OF ITEM	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)		
1.	3.00	MO	PROVIDE AND IMPLEMENT BARRICADES, SIGNS, AND TRAFFIC HANDLING-TRAFFIC CONTROL PLAN	\$4,560.00	\$13,680.00	\$4,572.62	\$13,717.86 CONTRACTOR'S PRICE \$13,717.90	\$2,500.00	\$7,500.00		
2.	1	LS	SWPPP-FURNISH AND INSTALL SILT FENCE	\$5,760.00	\$5,760.00	\$2,359.14	\$2,359.14	\$1,200.00	\$1,200.00		
3.	1	LS	FURNISH AND INSTALL CHAINLINK FENCE	\$10,800.00	\$10,800.00	\$3,061.86	\$3,061.86	\$1.50	\$1.50		
4.	2	CY	CLEAR GRUBBING AND EARTHWORK CUT (REMOVE LANDSCAPE MATERIAL)	\$810.00	\$1,620.00	\$57.22	\$114.44	\$5,000.00	\$10,000.00		
5.	5	CY	PROVIDE EARTHWORK FILL	\$732.00	\$3,660.00	\$89.35	\$446.75	\$1,500.00	\$7,500.00		
6.	1	LS	PERFORM SELECTIVE DEMOLITION	\$10,694.22	\$10,694.22	\$19,786.82	\$19,786.82	\$13,500.00	\$13,500.00		
7.	47	SY	PROVIDE AND INSTALL SIDEWALK 4" DEPTH STANDARD BROOM FINISH CONCRETE PAVING	\$39.60	\$1,861.20	\$41.51	\$1,950.97	\$55.00	\$2,585.00		
8.	20	LF	PROVIDE AND INSTALL STEMWALL	\$141.60	\$2,832.00	\$18.52	\$370.40	\$35.00	\$700.00		
9.	2	EA	PROVIDE AND INSTALL NEW ADA RAMPS	\$1,440.00	\$2,880.00	\$1,814.08	\$3,628.16	\$1,100.00	\$2,200.00		
10.	2	EA	PROVIDE AND INSTALL NEW ADA RAMPS TYPE 7 DIRECTIONAL	\$3,360.00	\$6,720.00	\$898.10	\$1,796.20	\$1,100.00	\$2,200.00		

Approved By: fsd  
Date: 07/06/2017

2017-1242 SPRINGWOOD DRIVE ROADWAY IMPROVEMENTS

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# CITY OF EL PASO BID TABULATION FORM



BID TITLE: SPRINGWOOD DRIVE ROADWAY IMPROVEMENT						BID NO: 2017-1242					
BID DATE: JULY 5, 2017						DEPARTMENT: CAPITAL IMPROVEMENT					
						BLACK STALLION CONTRACTORS, INC		KEYSTONE GC, LLC		HAWK CONSTRUCTION	
						EL PASO, TX		EL PASO, TX		EL PASO, TX	
						BIDDER 1 OF 3		BIDDER 2 OF 3		BIDDER 3 OF 3	
BASE BID - UNIT PRICE SCHEDULE: SPRINGWOOD STREET IMPROVEMENTS											
ITEM #	EST QTY	UNIT	BRIEF DESCRIPTION OF ITEM	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)
11.	280	SF	LANDSCAPE ROCK FRANKLIN RED 1"-2" OVER FILTER FABRIC	\$5.16	\$1,444.80	\$2.26	\$632.80	\$3.00	\$840.00		
12.	153	LF	PROVIDE AND INSTALL 6" CURB AND GUTTER	\$16.68	\$2,552.04	\$13.47	\$2,060.91	\$19.00	\$2,907.00		
13.	34	EA	PROVIDE AND INSTALL TRAFFIC SIGNS	\$990.00	\$33,660.00	\$1,212.24	\$41,216.16	\$2,800.00	\$95,200.00		
14.	3	EA	PROVIDE AND INSTALL 3" CALIPER TREES	\$510.00	\$1,530.00	\$580.39	\$1,741.17	\$650.00	\$1,950.00		
15.	29	EA	PROVIDE AND INSTALL 5 GALLON PLANT MATERIAL	\$54.00	\$1,566.00	\$30.96	\$897.84	\$35.00	\$1,015.00		
16.	28	LF	PROVIDE AND INSTALL 2" PVC CONDUIT	\$25.32	\$708.96	\$36.12	\$1,011.36	\$40.00	\$1,120.00		
17.	0.172	1K FT.	PROVIDE AND INSTALL WITH 2 #6 THHW AND 1# 6 THHW GROUND	\$7,800.00	\$1,341.60	\$7.94	\$1.37	\$9.00	\$1.55	CONTRACTOR'S PRICE \$1,548.00	
18.	2	EA	PROVIDE AND INSTALL GROUND BOX	\$2,640.00	\$5,280.00	\$1,612.18	\$3,224.36	\$1,800.00	\$3,600.00		
19.	21,663	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 4" SOLID WHITE LINES	\$0.66	\$14,310.78	\$0.71	\$15,394.93	\$0.80	\$17,346.40		
20.	1,078	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 4" BROKEN WHITE LINES	\$0.66	\$711.48	\$0.71	\$765.38	\$0.80	\$862.40		

Approved By: /s/  
Date: 07/06/2017

2017-1242 SPRINGWOOD DRIVE ROADWAY IMPROVEMENTS

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**CITY OF EL PASO  
BID TABULATION FORM**



<b>BID TITLE: SPRINGWOOD DRIVE ROADWAY IMPROVEMENT</b> <b>BID DATE: JULY 5, 2017</b>	<b>BID NO: 2017-1242</b> <b>DEPARTMENT: CAPITAL IMPROVEMENT</b>
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	<b>BLACK STALLION CONTRACTORS, INC</b>  <b>EL PASO, TX</b> <b>BIDDER 1 OF 3</b>	<b>KEYSTONE GC, LLC</b>  <b>EL PASO, TX</b> <b>BIDDER 2 OF 3</b>	<b>HAWK CONSTRUCTION</b>  <b>EL PASO, TX</b> <b>BIDDER 3 OF 3</b>
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**BASE BID - UNIT PRICE SCHEDULE: SPRINGWOOD STREET IMPROVEMENTS**

ITEM #	EST QTY	UNIT	BRIEF DESCRIPTION OF ITEM	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)
21.	853	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 4" YELLOW DOUBLE LINES	\$1.14	\$972.42	\$1.23	\$1,049.19	\$1.50	\$1,279.50
22.	1,822	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 18" WHITE BARS WITH PREPARATION	\$4.49	\$8,180.78	\$4.83	\$8,800.26	\$4.30	\$7,834.60
23.	466	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 24" WHITE BARS WITH PREPARATION	\$5.52	\$2,572.32	\$5.94	\$2,768.04	\$5.75	\$2,679.50
24.	9,940	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 6" SOLID WHITE LINES	\$1.14	\$11,331.60	\$1.23	\$12,226.20	\$1.20	\$11,928.00
25.	58	LF	PROVIDE AND INSTALL WHITE YIELD (STOP) LINES TRIANGULAR 1' X 1.5' (TYPE II)	\$15.60	\$904.80	\$16.77	\$972.66	\$50.00	\$2,900.00
26.	890	SF	PROVIDE AND INSTALL EPOXY-RESIN GREEN PAINT	\$4.08	\$3,631.20	\$4.39	\$3,907.10	\$15.00	\$13,350.00
27.	6	EA	PROVIDE AND INSTALL HOT THERMOPLASTIC "ONLY" SYMBOL	\$88.80	\$532.80	\$95.45	\$572.70	\$215.00	\$1,290.00
28.	38	EA	PROVIDE AND INSTALL HOT THERMOPLASTIC TURN ARROW MARKING	\$88.80	\$3,374.40	\$95.45	\$3,627.10	\$195.00	\$7,410.00
29.	7	EA	PROVIDE AND INSTALL HOT THERMOPLASTIC BICYCLE SHARED PATH PAVEMENT MARKING	\$115.20	\$806.40	\$123.82	\$866.74	\$400.00	\$2,800.00
30.	29	EA	PROVIDE AND INSTALL HOT THERMOPLASTIC BICYCLE SYMBOL	\$190.80	\$5,533.20	\$205.07	\$5,947.03	\$290.00	\$8,410.00

Approved By: Is/  
Date: 07/06/2017

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**CITY OF EL PASO  
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BID TITLE: SPRINGWOOD DRIVE ROADWAY IMPROVEMENT					BID NO: 2017-1242				
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31.	1	LS	PROVIDE AND INSTALL IRRIGATION SYSTEM	\$5,760.00	\$5,760.00	\$4,098.79	\$4,098.79	\$4,500.00	\$4,500.00
32.	1	LS	PROVIDE AND INSTALL CONSTRUCTION SIGN	\$3,000.00	\$3,000.00	\$1,316.15	\$1,316.15	\$860.00	\$860.00
33.	11	EA	PROVIDE AND INSTALL AUDIO PEDESTRIAN PUSH BUTTONS	\$870.00	\$9,570.00	\$3,159.86	\$34,758.46	\$3,500.00	\$38,500.00
34.	172	LF	PROVIDE AND INSTALL 5-CONDUCTOR 18 AWG LINE	\$50.40	\$8,668.80	\$7.10	\$1,221.20	\$8.00	\$1,376.00
35.	1	EA	PROVIDE AND INSTALL PEDSTRIAN PEDESTAL 15' POLE	\$4,560.00	\$4,560.00	\$3,675.76	\$3,675.76	\$4,100.00	\$4,100.00
36.	1	EA	PROVIDE AND INSTALL PEDSTRAIN PEDESTAL 15' POLE W/FOUNDATION 24-A	\$5,040.00	\$5,040.00	\$1,870.12	\$1,870.12	\$6,200.00	\$6,200.00

Approved By: fsj  
Date: 07/06/2017

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37.	190	LF	PROVIDE AND INSTALL TYPE D BIKE LOOP DETECTABLE CABLE	\$106.80	\$20,292.00	\$3.87	\$735.30	\$4.30	\$817.00	
38.	123	SY	PROVIDE AND INSTALL ASPHALTIC CONCRETE W/ SUBBASE PREPARATION	\$82.80	\$10,184.40	\$74.36	\$9,146.28	\$45.00	\$5,535.00	
39.	4	EA	PROVIDE AND INSTALL BIKE SIGNAL HEADS	\$1,188.00	\$4,752.00	\$2,005.55	\$8,022.20	\$2,225.00	\$8,900.00	
SUM TOTAL BASE BID (ITEMS 1 THROUGH 39)				\$233,280.20		\$219,760.16		\$302,898.45		
						CONTRACTOR'S PRICE \$219,760.20		CONTRACTOR'S PRICE \$304,444.90		
MOBILIZATION (NOT TO EXCEED 5% OF THE TOTAL BASE BID)				\$10,497.61		\$4,643.06		\$15,000.00		
SUM TOTAL (BASE BID and MOBILIZATION)				\$243,777.81		\$224,403.22		\$317,898.45		
						CONTRACTOR'S PRICE \$224,403.26		CONTRACTOR'S PRICE \$319,444.90		

Approved By: fsj  
Date: 07/06/2017

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**CITY OF EL PASO  
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BID TITLE: SPRINGWOOD DRIVE ROADWAY IMPROVEMENT					BID NO: 2017-1242					
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<b>OPTION 1: SUMAC QUANTITIES</b>										
ITEM #	EST QTY	UNIT	BRIEF DESCRIPTION OF ITEM	UNIT BID PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT BID PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	UNIT BID PRICE (In Figures)	TOTAL AMOUNT (Qty x UNIT PRICE) (In Figures)	
1.	90	EA	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 4" BROKEN YELLOW LINES	\$0.66	\$59.40	\$0.71	\$63.90	\$0.80	\$72.00	
2.	1,004	EA	PROVIDE AND INSTALL RAISED PAVEMENT MARKERS	\$3.24	\$3,252.96	\$3.49	\$3,503.96	\$5.75	\$5,773.00	
3.	743	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 4" SOLID DOUBLE YELLOW LINES	\$1.14	\$847.02	\$1.23	\$913.89	\$1.60	\$1,188.80	
4.	70	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 18" WHITE BARS WITH PREPARATION	\$5.28	\$369.60	\$5.68	\$397.60	\$4.30	\$301.00	
5.	16	LF	PROVIDE AND INSTALL HOT THERMOPLASTIC STRIPING 24" WHITE BARS WITH PREPARATION	\$7.20	\$115.20	\$7.74	\$123.84	\$5.75	\$92.00	
6.	6	EA	PROVIDE AND INSTALL TRAFFIC SIGNS	\$990.00	\$5,940.00	\$1,155.61	\$6,933.66	\$2,800.00	\$16,800.00	
7.	5	EA	PROVIDE AND INSTALL HOT THERMOPLASTIC BICYCLE SHARED PATH PAVEMENT MARKING	\$115.20	\$576.00	\$123.82	\$619.10	\$400.00	\$2,000.00	
SUM TOTAL BASE BID (ITEMS 1 THROUGH 7)				\$11,160.18		\$12,555.95		\$26,226.80		
MOBILIZATION (NOT TO EXCEED 5% OF THE TOTAL BASE BID)				\$502.21		\$224.34		\$1,300.00		
SUM TOTAL (BASE BID and MOBILIZATION)				\$11,662.39		\$12,780.29		\$27,526.80		
AMENDMENTS NO. 1 & 2 ACKNOWLEDGED:				YES		YES		YES		
BID BOND SUBMITTED				YES		YES		YES		

Approved By: /s/  
Date: 07/06/2017

2017-1242 SPRINGWOOD DRIVE ROADWAY IMPROVEMENTS

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<b><u>No.</u></b>	<b><u>Name</u></b>	<b><u>Company</u></b>
1	Gutierrez, Ramon	Alpine Electric
2	Roy, East	Los Gueros Construct
3	Ruiz, Erika	Vertex Contractors,
4	Marrero-Santiago, Juan	MARCO Federal Servic
5	TYREE, BRUNO	CONTRACTOIRS & ENGIN
6	Tarin, Manuel	Ztex Construction
7	cole, chuck	bowen
8	O'Barr, Mark	Consolidated Traffic
9	Bluett, Claire	Cobb, Fendley And As
10	santo, frank	build masters constr
11	Banquil, Lovely	
12	Gibson, Patty	construction Bid Sou
13	HARRISON, MIKE	DEL MAR CONTRACTING,
14	Luna, Hector	Black Stallion Contr
15	Stephen, Dowdy	Larwel Industries
16	Andrea, Klinefelter	Kimley-Horn
17	Chacon, Salvador	Allied Paving Compan
18	Motta, Alejandro	Tri-State Electric,
19	Hernandez, Cecilia	The PlanIt Room
20	Kyle, Bellomy	ConstructConnect
21	Felix, Lupe	Prime Irrigation And
22	Esparza, Francisco	Moss and Associates
23	Adame, Rogelio	ZTEX Construction
24	Joaquin, Royo	ZTEX
25	Olguin, Jeannette	Vitual Builders Exch
26	Jerry, Paz	Molzen Corbin
27	Ramos, Lorenzo	Cobb Mechanical Cont
28	CAMPOS, JESUS	KEYSTONE CONTRACTORS
29	Hessney, Steve	Bowen Industrial Con
30	Guillermo, Ovies	J.A.R Concrete Inc.
31	James, Leiskau	Holophane
32	Angulo, Jorge	Jorge I. Angulo P.E.
33	Ojeda, Jorge	Hawk Construction
34	Oney, Hilary	CSA Constructors
35	martinez, avelardo	martinez irrigation
36	Lowrance, Gloria	Jobe Materials
37	Georges, Tag	Jobe Materials
38	Johnson, Kesha	WTAGC
39	Garcia, Gustavo	AJ Commercial Servic
40	Robles, Maria	GRV Integrated Engin
41	Pellicano, Christopher G	The El Paso Water Ut
42	michell, Deborah	pmi
43	arzaga, jesus	pmi
44	Aguilera, Benjamin	AB Powers, LLC.
45	McMillan, Terry	Soil Stabilization P
46	Cortez, Angel	GCC Sun City Materia

47 Alnsworth, Jenna	Dantex Construction
48 Gallardo, Frank J	Jobe Materials
49 Abel, Gandara	Beacon Services
50 John, Rugh	AMTEK
51 SATARAIN, JOE	SATARAIN CONSTRUCTIO
52 Paz, Crystal	
53 PATRICIA, MANARIN	Deltek
54 Cordova, James	MARCO Federal Servic
55 NAVAR PAYAN, ELEAZAR	
56 Ramirez, Elvis	MONTANA RESTORATION
57 MALDONDO, ARTURO	MALDONADO TRUCKING
58 Rosales, Angelica	J.A.R. Construction
59 ortiz, abel	
60 Pinon, Jose	SAAB SITE CONTRACTOR
61 Luna, Gabriel	FORTO Construction,
62 Ortiz, Cano	El Paso A.R.C. Elect
63 Corina, Gamboa	Eagle Construction
64 Pino Jr, Ruben	City of El Paso
65 Wood, Jayne	Construction Reporte
66 Cardenas, Marisa	Moreno Cardenas Inc
67 Leanos, Nancy	Aztec Contractors, I
68 Soto, Alex	DRS Rock Materials L
69 Verdecchia, Miguel	Rinker Materials
70 White, Brian	The Diversified Grou
71 Caraveo, Victor	The City of El Paso
72 Deg, Maria	Contractors Register
73 QUINONEZ, FERNANDO	
74 Ferguson, Garrett	Arcadis



# Springwood Traffic Calming

**August 8, 2017**



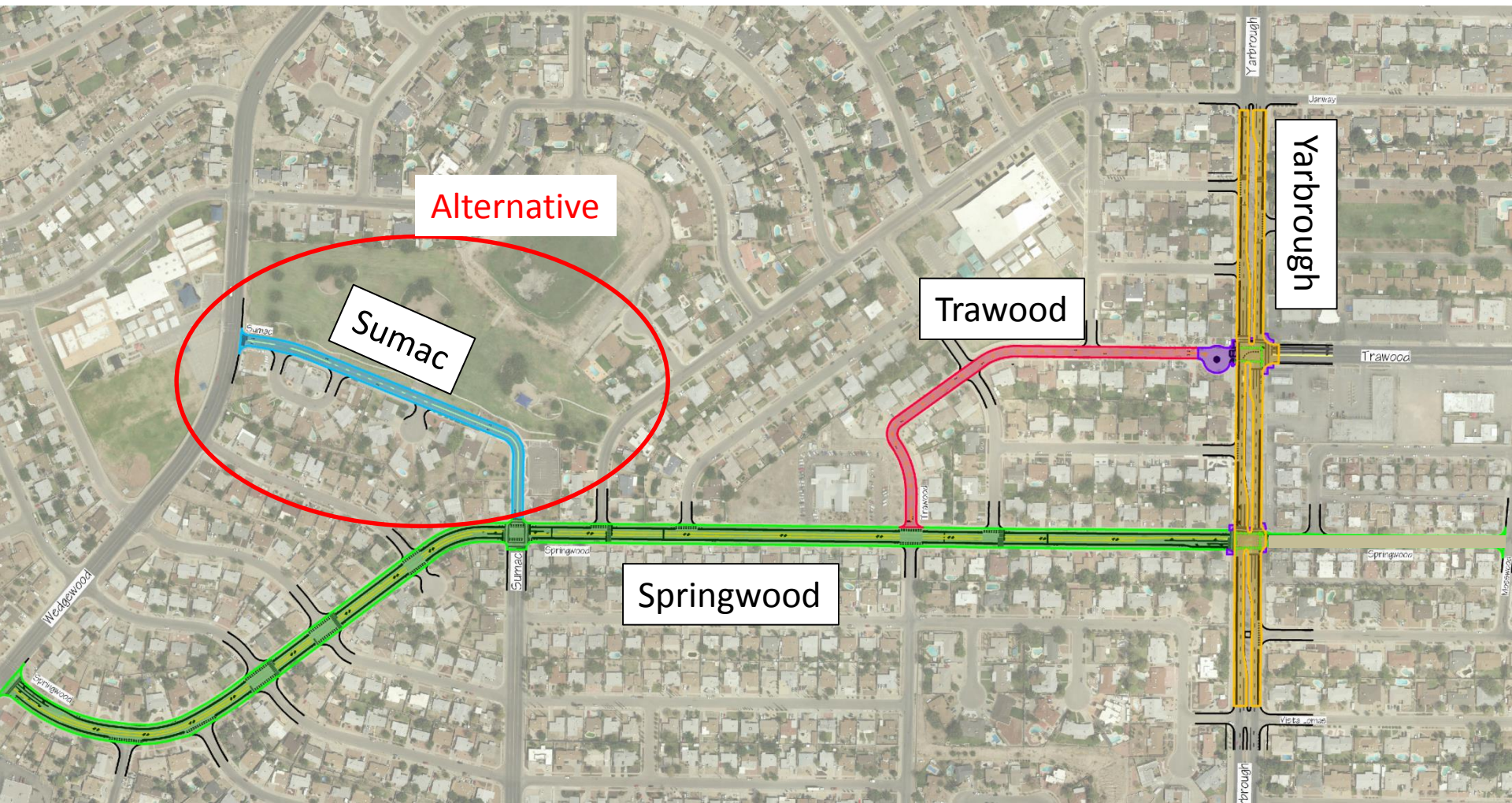
*"Delivering Outstanding Services"*



# Springwood Traffic Calming

## Intent

- The intent of the Springwood Traffic Calming Project is to improve the quality of life by promoting safer roadways for the residents of the Travis White area



Alternative

Sumac

Trawood

Springwood

Yarborough





# Springwood Traffic Calming

## Scope of Work

- **Springwood improvements from Wedgewood to Yarbrough**
  - **Removal of all existing striping**
  - **Reduction of travel lanes from four to three**
  - **Installation of parking lane**
  - **Installation of buffered bike lanes with appropriate symbols and signage**
- **Goal is to improve safety of the roadway**
- **Encourage motorists to drive at a compliant speed**

# Springwood Existing Conditions





# Springwood Existing Conditions













# Springwood Traffic Calming

## Scope of Work

- **Installation of pavement markings and signage**
  - **5' bike lanes, 3' buffer, 7' parking lanes**
    - **11'6" driving lane**
    - **10' center lanes**
  - **Springwood between Yarbrough and Hemlock St.**
  - **Trawood between Springwood and Yarbrough**
    - **7' parking lane and 10'6" driving lane with sharrows**
  - **Yarbrough between Vista Lomas Dr. & Janway Dr.**
    - **5' bike lane, 3' buffer, 11' & 10'6" driving lane**
  - **Alternate -Sumac between Springwood and Wedgewood**
- **Sharrow**
  - **Reminder of the shared environment for bicycles and automobiles**
  - **Reminder of the legitimacy of bicycle traffic on the street**



## Sharrow Example





# Sharrow Example



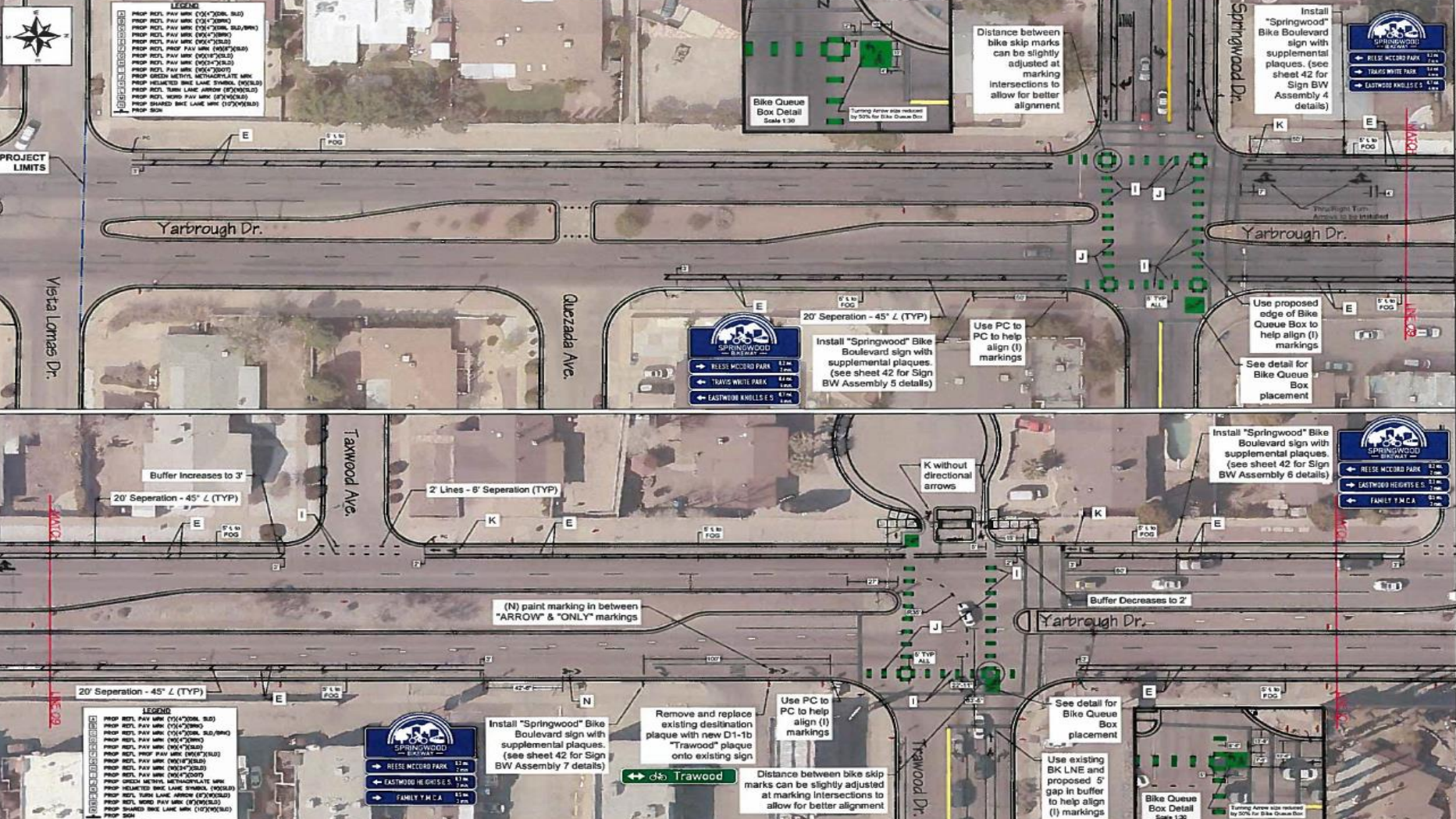


# Springwood Traffic Calming

## Scope of Work

- **Newly created “BIKEWAY” SIGNS” showing civic destinations and distances**
  - **Bike lane symbols and signs**
- **Improvements at Yarbrough**
  - **Improvement of the barrier at the Yarbrough and Trawood intersection**
    - **Replace guard railing with landscape median and pedestrian Xing**
  - **Installation of bike boxes and bike signal at intersection with Trawood**
    - **Bike loop detection**
    - **Two dedicated bike signal heads**
  - **Installation of buffer on Yarbrough between Janway and Vista Lomas**







## Existing Conditions Yarbrough at Trawood





# Proposed Improvements Yarbrough at Trawood (Conceptual Rendering)





# Questions and Comments