



**Core Engineering Group, PLLC**

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Mr. Eulogio Vera, PE  
City of San Luis Public Works Department  
1090 E. Union Street  
San Luis, AZ 85349

Re: 4<sup>th</sup> Avenue / 1<sup>st</sup> Avenue and Juan Sanchez Boulevard Roadway Improvements  
Scope and Fee Proposal

Dear Mr. Vera:

Per your request, the following is our scope of services for a roadway design of the 4<sup>th</sup> Avenue / 1<sup>st</sup> Avenue and Juan Sanchez Boulevard area near the Gadsden Elementary School District Campus (GESD). Enclosed please find the fee proposal for the construction documents as we discussed.

The scope includes three sections of roadway improvements. These improvements are guided by the traffic study recently completed.

The first section is the improvements of 1<sup>st</sup> Avenue from D Street to Juan Sanchez Boulevard. The scope shall perform pavement preservation activities on the older pavement and install a sidewalk on the west side of the street. The drainage pattern of the roadway will be analyzed and a local basin shall be design as needed. The north leg of 1<sup>st</sup> Avenue with Juan Sanchez Blvd shall be realigned to be perpendicular to Juan Sanchez. Only existing right-of-way shall be utilized; no new right-of-way will be acquired. This section shall also include the installation of the Rectangular Rapid Flashing Beacons crossing Juan Sanchez Blvd. per the traffic study recommendation. Pavement markings and any needed signage changes shall also be included.

The second section is the pavement preservation of Juan Sanchez Boulevard from Main Street to 1<sup>st</sup> Avenue. The full pavement section shall be replaced and a profile set that will work with future curb and gutter of this section. The western edge shall meet the improvements by the recent ADOT Main Street project. The east end will cover the 1<sup>st</sup> Avenue intersection at a minimum.

The third section is the widening of the Juan Sanchez Boulevard and 4<sup>th</sup> Avenue intersection and the design of a traffic signal. The design shall accommodate the ADOT DCR alignment of this intersection, increased to meet any additional information from the recent traffic study. CivTech will provide QA support on the traffic signal design. The traffic signal standards shall match the ADOT traffic signal design.

Common to each section shall be the development of details as well as right-of-way research on all segments, specifications, and cost estimate. Three meetings are assumed for the development of the project. Although the scope has been described in three sections, the construction documentation will be in two separate bid packages, first 2 segments in the first package and the third segment into the last bid package. The first package will be ready for bid by February 15<sup>th</sup>, 2016. The second package will proceed after the first package is ready

for bid. The scope of work shall include bidding assistance. Construction phase services shall be under separate contract at the discretion of the City of San Luis.

The first bid package will have a line-and-grade submittal, 95% submittal and a final signed and sealed submittal. The second bid package will have a 30% submittal, 95% submittal and a final sealed and signed submittal. No federal funding is anticipated for this contract.

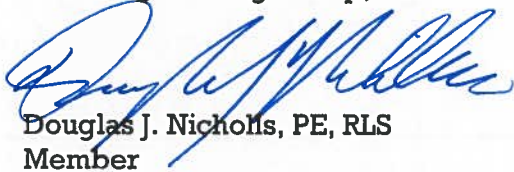
The project scope of work shall not include a lighting design, SWPPP, construction phasing, traffic control plans, geotechnical design, implementation of the ADOT DCR, the design of the north leg of 1<sup>st</sup> Avenue north of Juan Sanchez Boulevard, and pavement design. It is assumed that the pavement design from the ADOT Main Street project will be used for the 1<sup>st</sup> Avenue improvements and the pavement along Juan Sanchez Boulevard will be to match the existing thickness to County specification standards.

The proposed fee schedule is attached. Please do not hesitate to contact me if you have any questions or need further clarification.

The proposed project schedule is as follows:

- |                                   |                     |
|-----------------------------------|---------------------|
| 1. Topo and Line and Grade Design | Jan 8 <sup>th</sup> |
| 2. 95% Submittal                  | Jan 31              |
| 3. Final PS&E Signed              | Feb 15              |
| 4. Bids Opened                    | Feb 27              |
| 5. Construction Quick Start       | Mar 14              |
| 6. Construction End               | June 15             |

Sincerely,  
Core Engineering Group, PLLC



Douglas J. Nicholls, PE, RLS  
Member  
attch

CORE ENGINEERING GROUP, PLLC

CONTRACT NO. \_\_\_\_\_  
PROJECT NO. \_\_\_\_\_  
New Contract: \_\_\_\_\_  
Contract Mod: \_\_\_\_\_

JUAN SANCHEZ BLVD and 4th AVENUE ROADWAY PROJECT  
DERIVATION OF COST PROPOSAL  
(Round figures to the nearest \$1.00)

**ESTIMATED DIRECT LABOR**

Classification	Estimated Hours	Proposed Hourly Rate	Proposed Labor Cost
Project Manager	40	\$125.00	\$5,000
Senior Project Engineer	40	\$115.00	\$4,600
Project Engineer	255	\$100.00	\$25,500
Technician	302	\$75.00	\$22,650
Survey Crew	24	\$145.00	\$3,480
Clerical	29	\$45.00	\$1,305
Total Proposed Labor Cost:			\$57,535

**ESTIMATED DIRECT EXPENSES**

Reproduction	\$94
Communications	\$0
Survey Supplies	\$0
Transportation	\$164

Total Estimated Direct Expenses: \$258

**ESTIMATED OUTSIDE SERVICES**

Firm	Method Of Comp.	Cost
CivTech	T&M	\$2,110

Total Estimated Outside Services: \$2,110

Subtotal: \$59,903

**TOTAL ESTIMATED COST: \$59,903**

  
Signature

12/10/15  
Date

## STAFFHOUR ESTIMATE SUMMARY

Hour Estimate for JUAN SANCHEZ BLVD - MAIN STREET to 4TH AVENUE								
ROADWAY DESIGN								
CORE HOUR SUMMARY								
Work/Scope Item	PM	Sen Proj Eng	Proj Eng	Tech	Survey Crew	Admin	Totals	Sheets
1st AVE SOUTH - JSB to D ST	5	9	71	99	8	8	200	13
JSB - MAIN ST to 1st AVE	2	3	15	34	8	3	65	3
JSB and 4th AVENUE INTERSECTION	3	8	97	148	8	10	274	17
MANAGEMENT	30	20	72	21	0	8	151	0
<b>TOTAL HOURS</b>	<b>40</b>	<b>40</b>	<b>255</b>	<b>302</b>	<b>24</b>	<b>29</b>	<b>690</b>	<b>33</b>
Percent of Hours	6%	6%	37%	44%	3%	4%	100%	
<b>1st AVE SOUTH - JSB to D ST</b>								
Title Sheet	0	0	0	1	0	0	1	1
Topo Survey	0	0	1	16	8	1	26	2
Roadway Plans (S/W and Pave Pres)	1	2	18	16	0	1	38	2
Roadway Details	0	1	12	10	0	1	24	2
Drainage Review/Design	1	1	8	12	0	1	23	1
Intersection Realignment	1	2	10	12	0	1	26	1
RR Flashing Beacon	1	2	8	8	0	1	20	1
Pavement Marking and Signing Plan	1	1	6	8	0	1	17	1
Pavement Marking and Signing Details	0	0	8	16	0	1	25	2
<b>TOTALS</b>	<b>5</b>	<b>9</b>	<b>71</b>	<b>99</b>	<b>8</b>	<b>8</b>	<b>200</b>	<b>13</b>
<b>JSB - MAIN ST to 1st AVE</b>								
Topo Survey	0	0	1	12	8	1	22	1
Roadway Plans	1	1	8	12	0	1	23	1
Pavement Marking and Signing Plan	1	2	6	10	0	1	20	1
							0	
							0	
<b>TOTALS</b>	<b>2</b>	<b>3</b>	<b>15</b>	<b>34</b>	<b>8</b>	<b>3</b>	<b>65</b>	<b>3</b>
<b>JSB and 4th AVENUE INTERSECTION</b>								
Title Sheet	0	0	0	1	0	0	1	1
Topo Survey	0	0	1	16	8	1	26	3
Roadway Plans (Intersection Wid. & Pave Pre)	1	2	24	30	0	2	59	3
Roadway Details	0	1	6	4	0	0	11	1
Traffic Signal Plans	1	2	36	48	0	4	91	1
Traffic Signal Details	1	2	16	30	0	2	51	3
Pavement Marking and Signing Details	0	0	2	4	0	0	6	2
Pavement Marking and Signing Plan	0	1	12	16	0	1	30	4
<b>TOTALS</b>	<b>3</b>	<b>8</b>	<b>97</b>	<b>148</b>	<b>8</b>	<b>10</b>	<b>274</b>	<b>17</b>
<b>MANAGEMENT</b>								
30% Submittal	0	0	4	2	0	1	7	
95% Submittal	0	0	4	2	0	1	7	
100% Submittal	0	0	4	2	0	0	6	
Meetings (3 Mtgs)	9	3	12	3	0	1	28	
Right-Of-Way Research	0	1	2	12	0	0	15	
Specifications	2	6	18	0	0	2	28	
Propable Cost of Construction	1	2	12	0	0	1	16	
Bidding Assistance	8	8	16	0	0	1	33	
Management	10	0	0	0	0	1	11	
<b>TOTALS</b>	<b>30</b>	<b>20</b>	<b>72</b>	<b>21</b>	<b>0</b>	<b>8</b>	<b>151</b>	<b>0</b>

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CONTRACT NO. \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_  
 New Contract: \_\_\_\_\_  
 Contract Mod: \_\_\_\_\_

JUAN SANCHEZ BLVD and 4th AVENUE ROADWAY PROJECT  
 BASIS FOR ESTIMATED DIRECT EXPENSES

**REPRODUCTION**

	No. of Sets	No. of Sheets	Each	Total
Photo Copies (8 1/2 x 11)	18	5	\$0.05	\$5
Photo Copies (11x17)	18	33	\$0.15	\$89
Mylars	0	33	\$5.00	\$0
Delivery	0	1	\$5.00	\$0
Federal Express	0	1	\$35.00	\$0
Recorded Document Copies	0	4	\$4.00	\$0

Subtotal \$94

**COMMUNICATIONS**

Telephone Charges	Months	Cost Per Month
	0	\$ -

Subtotal \$0

**SURVEY SUPPLIES**

	No. of Points	Each	Total
Aerial Panels	0	\$0.00	\$0
Potholing Supplies	0	\$10.00	\$0

Subtotal \$0

**TRANSPORTATION**

Mileage (Company Vehicle)  
 \$0.585

	No. of Trips	Miles per Trip	Total Miles	Total Cost per Trip
Progress Meetings (San Luis)	3	40	120	\$70.20
Progress Meetings (Yuma)	0	4	0	\$0.00
Misc. Meetings / Deliveries (Yu)	0	0	0	\$0.00
Site Visits	0	4	0	\$0.00
City Reviews	0	4	0	\$0.00
Utility Coordination Meetings	0	1	0	\$0.00
Allowance for Survey	4	40	160	\$93.60
Subtotal			280	\$163.80

Per Diem

	No. of Trips	No. of Days per Trip	Cost per Day	Total Cost
Lodging	0	0	\$106.00	\$0.00
Subsistence	0	0	\$54.00	\$0.00
Subtotal				\$0.00

Subtotal \$164

Total Estimated Direct Expenses: \$258