



L & G Engineering

Transportation Consultants

June 8, 2016

Honorable Joe M. Flores
Hidalgo County Commissioner Pct. No. 3
Attention: **Ms. Norma Ceballos**
724 North Breyfogle , P.O. Box 607
Mission, Texas 78572

**RE: La Joya Watershed Improvements – Official Bid Amounts
South Detention Basin within Property ID 689895
Bid No. 2016-161-06-01-YZV**

Honorable Joe M. Flores,

We have tabulated the official bid amounts for the three responsive bidders and analyzed the bids in accordance with Article 2.11, "Tabulating Bids" of TxDOT's Standard Specifications. The official bid amounts, which are summarized below, ranged from 10% to 116% above the engineer's estimate and match the total bid amounts on their respective proposals.

La Joya Watershed Improvements – South Detention Basin Official Base Bid Amounts			
Engineer's Estimate		\$ 2,838,874.04	Percent Difference
Bidder #1	L&G Construction Co.	\$ 3,128,120.40	+ 10.19%
Bidder #2	Earth Works Enterprise	\$ 3,448,469.50	+ 21.5%
Bidder #3	Texas Cordia Construction, LLC.	\$ 6,126,157.50	+ 115.8%

We found no indication of any mathematical or material unbalancing. Two typo errors were found in the base bid proposal sheets for Bidder #2 and Bidder #3; however, this did not affect the accuracy of the total base bid amounts. We recommend that the low bidder, L&G Construction, be awarded the contract. Attached please find a copy of the bid tabulation spreadsheets. A discussion of our bid analysis follows:

Unbalanced Bid Analysis (<http://www.fhwa.dot.gov/programadmin/contracts/051688.cfm>)

The FHWA policy on analysis of contract bids is found in FHPM 6-4-1-6, paragraph 11.c. It requires the evaluation of the unit bid prices for reasonable conformance with the engineer's estimate; however, FHWA provides no specific parameters, such as amount or percent of variance from the engineer's estimate, which constitute an unbalanced bid.

1. Significant Bid Items

An individual item will be considered significant to the contract if a bidder has an item included in the proposal where the difference between the total cost of the item and the total bid amount, expressed as a percent of the total bid amount, is greater than or less than 0.25%.



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2. Significantly Unbalanced Items

An item will be considered significantly unbalanced if the difference between the low bidder's unit price and the estimated bid price, expressed as a percent of the estimated bid price, is greater than +50% or is less than -75%.

After performing the bid analysis six items, in the low bidder's proposal, were found to be both significant bid items and significantly unbalanced from the engineer's estimate. However, further analysis shows that these items are within 1.2 standard deviations from the average of the three bids received and we feel this is within acceptable limits.

If you have any questions or comments, you can reach me or Arnold Cortez, P.E. at 956-585-1909.

Sincerely,

Jorge A. Madrigal, P.E.
Project Manager

ATTACHMENTS: Bid Analysis Spread Sheets

cc: Ms. Yolanda Velasquez, Buyer III, Hidalgo County Purchasing Dept.



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Bid Tabulation		Unit Est. Qty.		Description		Engineer's Estimate		Bidder #1		Bidder #2		Bidder #3					
						Price	Cost	L&G Construction	Earthworks	Texas Cordia	Price	Cost	Price	Cost			
La Joya Watershed, Hidalgo County						\$		\$		\$		\$					
Bid No. 2016-161-06-01-YZV						2,838,874.04		3,128,120.40		3,448,469.50		6,126,157.50					
CS:																	
From To																	
Bid Tabulation																	
Item	Code	ALT	Description	Unit	Est. Qty.	Price	Cost	Bid Total	Min Bid Bond	Min DBE Part	Price	Cost	Bid Total	Min Bid Bond	Min DBE Part	Price	Cost
110	6002		EXCAVATION (CHANNEL)	CY	724,874.00	2.50	1,812,185.00	\$	\$	\$	3.75	2,718,277.50	\$	\$	\$	6.75	4,882,895.50
132	6008		EMBANKMENT (FINAL) (DENS CONT) (TY D)	CY	27,712.00	3.00	83,136.00	\$	\$	\$	2.00	55,424.00	\$	\$	\$	14.75	408,752.00
164	6040		DRILL SEEDING (PERM) (URBAN) (CLAY)	AC	14.00	1,399.48	19,592.72	\$	\$	\$	2,200.00	30,800.00	\$	\$	\$	1,000.00	15,400.00
168	6001		VEGETATIVE WATERING	MG	713.00	17.81	12,698.53	\$	\$	\$	10.00	7,130.00	\$	\$	\$	15.00	10,695.00
400	6010		STRUCT EXCAV (SPECIAL)	CY	389.00	41.30	16,065.70	\$	\$	\$	25.00	9,725.00	\$	\$	\$	36.00	14,004.00
400	6011		SAND BACKFILL	CY	1,317.00	18.20	23,969.40	\$	\$	\$	12.00	15,804.00	\$	\$	\$	15.00	19,755.00
402	6001		TRENCH EXCAVATION PROTECTION	CY	978.00	2.91	2,845.98	\$	\$	\$	15.00	14,670.00	\$	\$	\$	3.00	2,334.00
432	6002		RIPRAP (CONC) (5 IN)	CY	27.00	544.87	14,711.49	\$	\$	\$	350.00	9,450.00	\$	\$	\$	290.00	7,890.00
432	6016		RIPRAP (STONE TY R)(DRY)(12IN)	CY	1,198.00	128.80	155,630.20	\$	\$	\$	25.00	29,975.00	\$	\$	\$	86.00	103,114.00
462	6021		CONC BOX CULV (8 FT X 6 FT)	LF	470.00	465.00	217,950.00	\$	\$	\$	560.00	272,600.00	\$	\$	\$	633.00	297,510.00
464	6010		RC PIPE (CL III)(48 IN)	LF	418.00	170.29	71,181.22	\$	\$	\$	125.00	52,250.00	\$	\$	\$	160.00	66,880.00
464	6009		RC PIPE (CL III)(18 IN)	LF	130.00	36.00	4,940.00	\$	\$	\$	28.00	3,640.00	\$	\$	\$	44.00	5,720.00
466	6011		HEADWALL (CH-FW-Q)(DIA 48 IN)	EA	1.00	9,133.00	9,133.00	\$	\$	\$	3,500.00	3,500.00	\$	\$	\$	7,000.00	7,000.00
466	6210		WINGWALL (SW-Q)(HW 7 FT)	EA	2.00	8,600.00	17,200.00	\$	\$	\$	3,500.00	7,000.00	\$	\$	\$	7,000.00	14,000.00
467	6362		SET (TY II) (18 IN) (RCP) (6-1) (C)	EA	2.00	900.00	1,800.00	\$	\$	\$	900.00	1,800.00	\$	\$	\$	700.00	1,400.00
476	6089		JACK BOX TUN BOX CULV (8 FT X 6 FT)	LF	112.00	2,835.00	317,920.00	\$	\$	\$	1,500.00	168,000.00	\$	\$	\$	2,000.00	224,000.00
506	6003		ROCK FILTER DAMS (INSTALL) (TY 3)	LF	186.00	32.84	6,108.24	\$	\$	\$	100.00	18,600.00	\$	\$	\$	40.00	7,440.00
506	6021		CONSTRUCTION EXITS (INSTALL) (TY 2)	SY	78.00	27.78	2,166.84	\$	\$	\$	50.00	3,900.00	\$	\$	\$	16.00	1,248.00
506	6024		CONSTRUCTION EXITS (REMOVE)	SY	78.00	9.09	709.02	\$	\$	\$	13.00	1,014.00	\$	\$	\$	7.00	546.00
506	6038		TEMP SEDMT CONT FENCE (INSTALL)	LF	8,250.00	2.58	21,285.00	\$	\$	\$	2.50	20,625.00	\$	\$	\$	2.00	16,500.00
506	6039		TEMP SEDMT CONT FENCE (REMOVE)	LF	8,250.00	2.17	17,902.50	\$	\$	\$	0.50	4,125.00	\$	\$	\$	1.00	8,250.00
506	6041		BIODEG EROSN CONT LOGS (INSTL) (2'*)	LF	40.00	3.58	143.20	\$	\$	\$	4.00	160.00	\$	\$	\$	7.00	280.00



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Unbalanced Bid Analysis
 La Joya Watershed, Hidalgo County
 Bid No. 2016-161-06-01-YZV
 CSI:

From, To
 Bid Analysis

Item	Code	ALT	Description	Unit	Est. Qty	Bid Prices						Item Cost				Significant Bid Items (Major Bid Items in RED)						
						Engineer (\$)	Bidder #1 (\$)	Bidder #2 (\$)	Bidder #3 (\$)	AVG (\$)	Engineer (\$)	Bidder #1 (\$)	Bidder #2 (\$)	Bidder #3 (\$)	AVG (\$)	Engineer	Bidder #1	Bidder #2	Bidder #3	AVG	Engineer	Bidder #1
110	6002		EXCAVATION (CHANNEL)	CY	724,874.00	2.50	2.60	3.75	6.75	4.37	\$ 1,812,185.00	\$ 1,884,672.40	\$ 2,718,120.40	\$ 3,448,469.50	\$ 6,126,157.50	\$ 4,234,249.14	63.8%	60.2%	78.8%	79.9%	74.8%	74.8%
132	6008		EMBANKMENT (FINAL) (DENS CONT) (TY D)	CY	27,712.00	3.00	6.00	2.00	14.75	7.58	83,136.00	166,272.00	55,424.00	55,424.00	408,752.00	210,149.33	2.9%	5.3%	1.6%	6.7%	5.0%	
164	6040		DRILL SEEDING (PERMAN) (URBAN) (CLAY)	AC	14.00	1,899.48	750.00	2,200.00	1,100.00	1,350.00	19,592.72	10,500.00	30,800.00	15,400.00	18,900.00	18,900.00	0.7%	0.3%	0.9%	0.3%	0.4%	
168	6001		VEGETATIVE WATERING	MG	713.00	17.81	60.00	10.00	15.00	28.33	12,698.53	42,780.00	7,130.00	10,655.00	20,201.67	20,201.67	0.4%	1.4%	0.3%	-	0.5%	
400	6010		STRUCT EXCAV (SPECIAL)	CY	389.00	41.30	62.00	25.00	36.00	41.00	16,065.70	24,118.00	9,725.00	14,004.00	15,949.00	15,949.00	0.6%	0.8%	0.3%	-	0.4%	
400	6011		SAND BACKFILL	CY	1,317.00	18.20	21.00	12.00	15.00	16.00	23,989.40	27,657.00	15,804.00	19,755.00	21,072.00	21,072.00	0.8%	0.9%	0.5%	0.3%	0.5%	
402	6001		TRENCH EXCAVATION PROTECTION	CY	978.00	2.91	16.00	15.00	3.00	11.33	2,845.36	15,668.00	14,670.00	2,954.00	11,084.00	11,084.00	-	0.5%	0.4%	-	0.3%	
432	6002		RIPRAP (CONC) (5 IN)	CY	27.00	544.87	350.00	350.00	290.00	330.00	14,711.49	9,490.00	9,450.00	7,890.00	8,910.00	8,910.00	0.5%	0.3%	0.3%	-	-	
462	6016		RIPRAP (STONE TY FR) (RCP) (12 IN)	CY	1,199.00	225.80	130.00	25.00	86.00	80.33	155,630.20	155,870.00	29,975.00	103,114.00	96,319.67	96,319.67	5.5%	5.0%	0.9%	1.7%	2.3%	
464	6010		CONC BOX CULV (8 FT X 6 FT)	LF	470.00	485.00	706.00	580.00	633.00	639.67	227,950.00	331,820.00	272,600.00	297,510.00	300,843.33	300,843.33	8.0%	10.6%	7.9%	4.9%	7.1%	
464	6003		RC PIPE (CL III) (48 IN)	LF	418.00	170.29	209.00	125.00	164.67	164.67	71,181.22	87,362.00	52,250.00	66,880.00	68,830.67	68,830.67	2.5%	2.8%	1.5%	1.1%	1.6%	
464	6003		RC PIPE (CL III) (36 IN)	LF	130.00	38.00	115.00	28.00	44.00	62.33	4,940.00	14,950.00	3,640.00	5,720.00	5,720.00	5,720.00	-	0.5%	-	-	-	
466	6011		HEADWALL (CH-FW-0) (DIA 48 IN)	EA	1.00	9,133.00	3,500.00	3,500.00	7,000.00	4,666.67	9,133.00	3,500.00	3,500.00	7,000.00	4,666.67	4,666.67	0.3%	-	-	-	-	
466	6210		WINGWALL (SW-0) (HW 7 FT)	EA	2.00	8,600.00	2,500.00	3,500.00	7,000.00	4,333.33	17,200.00	5,000.00	7,000.00	14,000.00	8,666.67	8,666.67	0.6%	-	-	-	-	
467	6352		SET (TY II) (18 IN) (RCP) (6.1) (C)	EA	2.00	900.00	2,000.00	900.00	700.00	1,700.00	1,800.00	4,000.00	1,800.00	1,800.00	2,400.00	2,400.00	-	-	-	-	-	
476	6089		JACK BOR TUN BOX CULV (8 FT X 6 FT)	LF	112.00	2,835.00	2,610.00	1,500.00	2,000.00	2,086.67	317,520.00	292,320.00	188,000.00	224,000.00	228,106.67	228,106.67	11.2%	9.3%	4.9%	3.7%	5.4%	
506	6003		ROCK FILTER DAMS (INSTALL) (TY 3)	LF	186.00	32.84	150.00	100.00	40.00	96.67	6,108.24	27,900.00	3,900.00	7,440.00	17,980.00	17,980.00	-	0.9%	0.5%	-	0.4%	
506	6021		CONSTRUCTION EXITS (INSTALL) (TY 2)	SY	78.00	27.78	32.00	30.00	15.00	32.67	2,166.84	2,496.00	3,900.00	1,248.00	2,548.00	2,548.00	-	-	-	-	-	
506	6024		CONSTRUCTION EXITS (REMOVE)	SY	78.00	9.09	10.00	13.00	7.00	10.00	709.02	780.00	1,014.00	546.00	780.00	780.00	-	-	-	-	-	
506	6038		TEMP SEDMT CONT FENCE (INSTALL)	LF	8,250.00	2.58	1.50	2.50	2.00	2.00	21,285.00	12,375.00	20,625.00	16,500.00	16,500.00	16,500.00	0.7%	0.4%	0.6%	0.3%	0.4%	
506	6039		TEMP SEDMT CONT FENCE (REMOVE)	LF	8,250.00	2.17	1.00	0.50	1.00	0.83	17,902.50	8,250.00	4,125.00	8,250.00	8,250.00	8,250.00	0.6%	0.3%	-	-	-	
506	6041		BIODEG EROSN CONT LOGS (INSTL) (12")	LF	40.00	3.58	10.00	4.00	7.00	7.00	143.20	400.00	160.00	280.00	280.00	280.00	-	-	-	-	-	

