

1999 Bryan Street
Suite 1200
Dallas, TX 75201
United States
T +1.214.638.0145
F +1.214.638.0447
www.jacobs.com

Subject	Review of Apparent Low Bidder's Submittal	Project Name	Virginia Parkway 5 & 6
Attention	Jason Horn, P.E.	Project No.	ST 1839
From	Carlos Negron, P.E.		
Date	April 13, 2021		
Copies to	Spenta Irani, P.E. Ed Penton, P.E. File		

Project Bid Opening

The City of McKinney accepted a total of 7 sealed bids for the Virginia Parkway Lanes 5 & 6 (Custer to St Gabriel) project, Project No.: ST 1839. The bid opening was broadcast via Zoom from inside City Hall Chambers at 2:00 pm (CDT) on April 1, 2021.

Apparent Low Bidder

The seven bidders and their written bid amounts are as follows:

1. Reliable Paving, Inc.	\$2,910,956.25	APPARENT LOW BIDDER
2. Pavecon Public Work, LP	\$2,981,223.65	
3. McMahan Contracting, LP	\$3,025,754.50	
4. Tiseo Paving Company	\$3,190,228.63	
5. Ed Bell Construction Company	\$3,249,056.25	
6. XIT Paving and Construction, Inc.	\$3,359,021.95	
7. Axis Contracting, Inc.	\$3,462,621.40	

The Engineer's opinion of probable cost based on the as-bid quantities is \$2,661,930.43.

Bid Adjustment

During the line by line review of the Bid Tabulation, it was discovered that there were four items that were incorrectly provided for the bidders. Those items with the as-bid and adjusted quantities are as follows:

Item No.	Description	Unit	Quantity As-Bid	Quantity Adjusted
200 T 100	PREPARING ROW	STA	70	70.2
507 T 666	REFL PAV MRK TY I (W) (WORD) (100MIL)	EA	6	10
512 T 666	PAVEMENT SEALER (WORD)	EA	6	10
518 T 678	PAV SURF PREP FOR MRK (WORD)	EA	6	10

The adjustment increases the as-bid amount but would not have changed the bid ranking provided above. The adjusted bids are as follows with the adjustment value provided parenthetically:

1. Reliable Paving, Inc.	\$2,911,626.25	(+\$670.00)
2. Pavecon Public Work, LP	\$2,982,173.79	(+\$950.14)
3. McMahon Contracting, LP	\$3,026,501.74	(+\$747.24)
4. Tiseo Paving Company	\$3,191,303.23	(+\$1,074.60)
5. Ed Bell Construction Company	\$3,249,919.75	(+\$863.50)
6. XIT Paving and Construction, Inc.	\$3,360,213.95	(+\$1,192.00)
7. Axis Contracting, Inc.	\$3,463,331.40	(+\$710.00)

The Engineer's opinion of probable cost based on the adjusted quantities is \$2,663,250.43, which is the number reported to the City of McKinney and Bidders in Addendum #1.

Component Responses

Bidders submitted components of Section I with the bid proposal in accordance with the requirements for the bid proposal as set out in the legal notice. Each of the following was verified for the apparent lowest bid and the runner up:

1. Contractor Status Information;
2. Out of State Contractor Compliance to State Law (If Applicable);
3. Statement of Bidding Contractor's Qualifications and Experience;
4. Statement of Subcontractor's Qualifications and Experience (See Below);
5. Safety Record Questionnaire & Statement of Bidder's Safety Experience;
6. Bid Proposal;
7. Bid Schedule (Table 1); and,
8. Bid Bond (in the form attached).

The following irregularities are noted for the Apparent Low Bidder, Reliable Paving, response to Component 5 "Safety Record Questionnaire & Statement of Bidder's Safety Experience":

- Question 5: "Does the Bidder have a lost time injury rate and a total recordable injury rate of less than or equal to the national average for North American Industrial Classification System (NAICS) Category 23 for each of the past five (5) years? (Attach the Bidder's OSHA 300/300A logs for the past five (5) years)"
The Bidder indicated "YES" but did not provide required logs.
- Question 6: "Does the Bidder have an experience modifier rate of 1.0 or less? (Attach the Bidder's NCCI workers compensation experience rating sheets for the past five (5) years)"
The Bidder indicated "YES" but did not provide required rating sheets.

The following irregularities are noted for the runner up to the Apparent Low Bidder, Pavecon Public Work, response to Component 5 "Safety Record Questionnaire & Statement of Bidder's Safety Experience":

- Question 6: "Does the Bidder have an experience modifier rate of 1.0 or less? (Attach the Bidder's NCCI workers compensation experience rating sheets for the past five (5) years)"
The Bidder indicated "YES" but did not provide required rating sheets.

It is our understanding that the City of McKinney has discretion to request additional information from the Apparent Low Bidder without violating procurement requirements.

Reference Verification

Jacobs reached out to six of the twelve references provided by Reliable Paving. Of those, the following three were available to provide responses.

- N Maxwell Creek Rd, City of Murphy: Ken Lee – 972.468.4394
- Eastvale, City of The Colony: Tammy Carter – 972.804.1016
- Meadowlark Ln, City of Watauga: William Wendland – 817.905.6183

Each of the references were asked a series of questions and gave similar responses for each. Those questions are listed below with a summarized response as follows:

- **Where major milestones completed on schedule?**
There were some delays related to COVID and from the recent snowstorm. One is delayed from utility work and they are catching up during the paving.
- **Was there a problem with change orders were on this project?**
Change orders were minimal. Reliable Paving was easy to negotiate with.
- **Were there any jobsite safety issues or personnel issues?**
None reported.

- **Were there any issues with quality of materials?**
None reported.
- **Were there any issues with quality of workmanship?**
None reported.
- **On a scale of 1 to 10, how would you rate their overall performance?**
Average 7.5
- **Would you recommend Reliable Paving for future work in your city?**
All reported yes.
- **Do you any other comments about Reliable Paving?**
They do good work and have worked hard to recover schedule setbacks.

Bid Price Analysis

The Bid Tabulations were compiled and reviewed to ensure that the item totals and bid total matches the what was provided by each Bidder. Each Bid Tabulation item number, description, units, and quantity was reviewed to ensure that it matched with the latest Engineers Opinion of Probable Cost.

A basic statistical analysis was performed on the Bid Tabulation of the Apparent Low Bidder to help identify any items that were improperly bid. This review includes reporting the minimum, maximum, average, median, standard deviation, Z-Score (Standard Score), and percent of total bid for each item. A Z-Score of 1 represents 1 standard deviation from the average price of the 7 bids. The following are observations of this analysis:

- Minimums: 8 items were the minimum bid price and represents 0.98% of the total bid
- Maximums: 15 items were the maximum bid price and represents 6.70% of the total bid
- Medians: 18 items were the median bid price and represents 10.47% of the total bid
- Z-Score (High): 9 items had a Z-Score higher than 1 and represents 2.71% of the total bid
- Z-Score (Low): 5 items had a Z-Score lower than 1 and represents 0.39% of the total bid
- **The top 10 highest tabulated items represent 66% of the total bid and are presented in the table below. All of these items have a Z-Score under 1.**
- REINFORCED CONCRETE PAVEMENT 8" is the largest percentage of the total and has a Z-Score of -0.27.

Item No.	Description	Unit	Quantity	Price	Amount	Z-Score	HIGH / LOW	% Total
100 T 500	MOBILIZATION	LS	1	\$136,000.00	\$136,000.00	0.03	HIGH	4.67%
201 T 104	REMOVING CONC (PAV)	SY	3,874	\$28.00	\$108,472.00	0.72	HIGH	3.73%
300 T 260	LIME (HYDRATED LIME (DRY))	TON	346	\$192.00	\$66,432.00	-0.45	LOW	2.28%
301 T 260	LIME TRT (SUBGRADE)(6")	SY	13,846	\$7.00	\$96,922.00	-0.08	LOW	3.33%
305 N 303.3	REINFORCED CONCRETE PAVEMENT 8"	SY	12,753	\$64.10	\$817,467.30	-0.27	LOW	28.08%
315 N 203.4	UNCLASSIFIED STREET EXCAVATION	CY	8,230	\$26.00	\$213,980.00	-0.55	LOW	7.35%
800 T 416	DRILL SHAFT (30 IN)	LF	248	\$340.00	\$84,320.00	0.64	HIGH	2.90%
801 T 610	IN RD IL (TY SA) 30T-4-4 (250W EQ) LED	EA	31	\$6,000.00	\$186,000.00	0.33	HIGH	6.39%
802 T 618	CONDT (PVC) (SCH 40) (2")	LF	9,947	\$12.30	\$122,348.10	0.43	HIGH	4.20%
902 T 170	IRRIGATION SYSTEM	LS	1	\$89,000.00	\$89,000.00	-0.82	LOW	3.06%

Recommendations

The Apparent Low Bidder, Reliable Paving, Inc. appears to have submitted a fair Bid Tabulation with no individual bid item standing out as a major imbalance. If Reliable Paving can provide the supporting documents missing as noted in the Component Responses section above, Jacobs recommends awarding them with the contract for the Virginia Parkway Lanes 5 & 6 (Custer to St Gabriel) project, Project No.: ST 1839.