



April 17, 2015

City of Lawrence, Kansas
Wakarusa Wastewater Treatment Plant
and Conveyance Corridor

B&V Project 180984
B&V File 80.1130
City Bid No. B1519

Ms. Melinda Harger, P.E., Project Engineer II
City of Lawrence, Kansas
Department of Utilities
P.O. Box 708
Lawrence, Kansas 66044

Re: Recommendation of Award of Contract

Attention: Ms. Harger

Two bids were received and opened on April 7, 2015 at City Hall for the Wakarusa WWTP and Conveyance Corridor Project, City Bid No. B1519. Bidding was open to all General Contractors who met the qualifications and safety requirements outlined in the bid documents. Bids were received on a lump sum basis and consisted of the sum of the Contractor's base bid and unit price items. There were also 25 bid alternatives listed in the bid form. The following is an alphabetical list of the contractor's lump sum base bids that were received and read aloud.

<u>Contractor</u>	<u>Total Lump Sum Base Bid</u>
Crossland Heavy	\$49,353,800
Garney Companies, Inc.	\$47,150,000

The enclosed bid tabulation summarizes the lump sum base bid prices, unit price items, bid alternative prices, and equipment suppliers. In addition we have enclosed a copy of Garney's complete bid package including the bid form, bid bond, equipment questionnaire, instrumentation and control (I&C) system supplier questionnaire, and proposed subcontractors. This letter outlines our review of the completeness of the bid package, and whether or not the qualifications and safety requirements were met.

Lump Sum Base Bid

The low bid was submitted by Garney Companies, Inc. (Garney). Garney's bid was \$2,203,800 less than the bid from Crossland Heavy (Crossland). Bids were within five (5) percent of each other and both bids were lower than the Engineer's opinion of probable construction cost of \$51,033,550. The Engineer's cost opinion was roughly eight (8) percent higher than Garney's bid and is considered to be within the acceptable accuracy range for this type of project. The number of bidders, other regional projects bidding at this time, perception of risk and the current market conditions were all factors that likely attributed to the difference between the bids received and the engineers opinion of probable costs.

Bid Alternatives

As shown in the enclosed bid tabulation, there were 25 bid alternatives that each Contractor submitted with the bid form. The price for each was read aloud when bids were opened. B&V met with the Utilities Department staff after the bid opening to discuss which of the alternatives to accept in order for the final Contract value to fall within the amount included in the capital improvement projects (CIP) budget. The following alternatives were selected by the project team. It is B&V's opinion that the costs shown for the selected alternatives are reasonable for the scope of work included.

Bid Alternative Description	Value (\$)
Bid Alternative G – Deletion of Concrete Site Paving. Modification of site paving from concrete surface to an aggregate surface to the extents shown in Addendum 6.	\$69,000
Bid Alternative I – Deletion of the LEED Requirements for the Wakarusa Administration Building.	\$117,000
Bid Alternative J – Deletion of portions of the walkways and associated guardrails for BNR Basin No. 1.	\$62,000
Bid Alternative K – Deletion of Aerated Sludge Storage Cell 2, Air Piping, Diffusers and PD Blower.	\$459,000
Bid Alternative L – Deletion of Vehicle Storage & Maintenance Building.	\$753,000
Bid Alternative Q – Deletion of PS 10 Grit/Scum Pump.	\$46,000
Bid Alternative S – Deletion of Grit Removal Head Cell, Grit Cup, Raptor and Associated Piping & Valves.	\$224,000
Bid Alternative T – Deletion of Surface Aerator Test.	\$25,000
Bid Alternative V – Deletion of Building Perimeter Insulation.	\$15,000
Bid Alternative W – Deletion of Ribbed Form Liner at PS 10.	\$34,000
Bid Alternative X – Replacement of the electrical switchgear enclosure specified in the base bid and with a NEMA 3R walk-in enclosure.	\$105,000
Bid Alternative Y – Substitution of PVC for FRPM Interceptor Sewer Piping.	\$40,000

The following is an alphabetical list of the contractor's lump sum base bids that have been adjusted to incorporate the recommended bid alternatives.

<u>Contractor</u>	<u>Total Lump Sum Base Bid</u>
Crossland Heavy	\$47,169,800
Garney Companies, Inc.	\$45,201,000

With the selected alternatives, Garney's bid was still lower than Crossland's by \$1,968,800. Both adjusted bids were lower than the adjusted Engineer's opinion of probable construction cost of \$49,038,550. Upon further review, it also appears that there is no combination of bid alternatives that could be selected that would make Crossland's bid lower than Garney's.

Garney's Proposed Project Manager and Superintendent

At our request, Garney provided the names of the following individuals as the proposed Project Manager and Superintendent.

- Project Manager – Bart Slaymaker. Bart is currently serving as the project manager for another B&V designed project in Midwest City, Oklahoma. This project is nearing completion and Bart will be available prior to Notice-to-Proceed.
- Superintendent – Pete Godin. Pete has worked in the construction industry for nearly 20 years and has supervised the construction of more than 15 treatment plants. Pete will also be available to start immediately on this project.

We are familiar with Bart Slaymaker from his current and past roles on Black & Veatch projects. Pete Godin is new to Garney as of 2014, but has extensive experience in the water/wastewater construction industry according to his resume. We believe that both individuals are experienced and qualified to serve in their respective roles for this project.

List of Subcontractors

We have reviewed the subcontractors that Garney submitted in the List of Subcontractors, including the I&C system supplier listed in the submitted questionnaire. Garney is listed to self-perform the dewatering, yard piping, concrete, process mechanical and steel joist framing. Of the subcontractors listed, Black & Veatch has previously worked with RD Johnson (Excavation), P1 Group (HVAC and Plumbing), Davin Electric (Electrical), Sunflower Paving (Concrete Pavement), and R.E. Pedrotti (I&C Supplier). We have found each of these to be acceptable subcontractors.

We contacted references for the remaining subcontractors that we have not worked with previously. These subcontractors include Brickman Masonry (Masonry), Delta Innovative Services (Roofing), Lawrence Landscaping (Seeding and Sodding), Thomas Industrial Coatings (Painting), and Seal-O-Matic (Asphaltic Concrete Pavement). All of the references gave positive feedback and we found nothing of concern that would keep us from recommending them for this project. If subsequent investigations indicate any concerns with these subcontractors, we will inform the City. The Contract Documents state that Contractor must replace a subcontractor for whom Owner has a reasonable objection.

Equipment Questionnaire

We reviewed the Equipment Questionnaire submitted by Garney. All the manufacturers listed in the questionnaire are named in the specifications, or manufacturers we have accepted and worked with on current or past projects. The specific equipment will be reviewed for compliance with the specifications when Garney submits shop drawings. If the equipment submitted does not meet the criteria listed in the applicable sections of the specifications, then the equipment will be rejected.

Completeness Check and Qualifications

Review of the submitted bidding documents indicate that Garney provided a complete and responsive bid. Garney provided acceptable project descriptions and references that demonstrated they met the qualifications requirements. Experience Modification Rates (EMRs) for workers' compensation were provided on insurance company letterhead (Liberty Mutual) for the last three (3) years. All EMRs were less than one (1) which would indicate a good safety record.

We have not received any significant negative feedback concerning Garney's performance on recent B&V designed projects, including the City of Olathe, Kansas – Cedar Creek Wastewater Treatment Plant Improvements, and City of Midwest City, Oklahoma – Pollution Control Facility Improvements, and from reference checks.

We also obtained a Dun & Bradstreet report for Garney. The report indicates that Garney's financial risk is low. There is not anything in the report that concerns us regarding their financial ability.

Summary

Based on the above review and Garney's performance on projects with Black & Veatch, it is our opinion that Garney is qualified to satisfactorily complete the Wakarusa WWTP and Conveyance Corridor project. As such, we recommend that the City award the contract to Garney at a total price of \$45,201,000 for the Lump Sum Base Bid and Bid Alternatives G, I, J, K, L, Q, S, T, V, W, X and Y. Again, in reviewing Crossland's bid and their prices for this same combination of bid alternatives, Garney remains the low bidder.

If you have any questions, please feel free to contact me at (913) 458-9055 or John Keller at (913) 458-3474.

Very truly yours,
BLACK & VEATCH CORPORATION



Isaac T. Crabtree
Engineering Manager

Enclosures

cc: Dave Wagner, City of Lawrence, w/enclosures
Mike Lawless, City of Lawrence, w/enclosures
John Keller, B&V, w/enclosures
Steve Keeling, B&V, w/enclosures

WAKARUSA WASTEWATER TREATMENT PLANT & CONVEYANCE CORRIDOR PROJECT
CITY PROJECT NO. UT1304 - CONTRACT 4
CITY BID NO. B1519

Item No.	Equipment	Crossland Heavy	Garney
		Manufacturer	
1	Basket Bar Screen – Section 05990	Halliday	Halliday
2	FRP Gates – Section 06640	Ashbrook	Plasti-Fab
3	Non-clog Horizontal End Suction Centrifugal Pumps (RAS) – Section 11115	Chicago	Chicago
4	Submersible Pumps – BNR Recycle Pumps – Section 11150	Flygt	Flygt
5	Submersible Pumps – Combined Pump Station – Section 11151	Flygt	Flygt
6	Submersible Pumps – PS10 Pumps – Section 11152	Flygt	Flygt
7	Rotary Lobe Positive Displacement Pumps – Section 11166	Lobepro	Lobepro
8	Mechanically Cleaned Perforated Plate Screens – Section 11313	Kusters Waters	Parkson
9	Grit Removal System – Section 11320 - Grit Pumps	Wemco	Wemco
10	Screenings Washer / Compactor Equipment – Section 11325	Kusters Waters	Parkson
11	Centrifuge Equipment – Section 11344	Flottweg	Andritz
12	Secondary Wastewater Treatment Clarifier Equipment – Spiral Scraper Type – Section 11435	Westech	Westech
13	Secondary Wastewater Treatment Clarifier Equipment – Suction Type – Section 11437	Westech	Clearstream
14	Rotary Lobe Positive Displacement Blowers – Section 11625	Gardner Denver	Gardner Denver
15	Compressed Air Equipment – Section 11626	Powerex	Powerex
16	Laboratory Furniture – Section 12625	Kewaunee	Kewaunee
17	Metal Building Systems – Section 13122	VP Buildings	Star
18	Shaftless Screw Conveyors – Section 14552	Spirac	Keystone
19	Pinch and Diaphragm Valves – Section 15097	Red Valve	Red Valve
20	Eccentric Plug Valves – Section 15102	Pratt	Dezurik
21	Fabricated Stainless Steel Slide Gates – Section 15113	Hydro Gate	Hydro Gate
22	Open-Channel Metal Slide Gates and Weir Gates – Section 15114	Hydro Gate	Hydro Gate
23	Water Pressure Booster System (NPW) – Section 15494	SyncroFlo	SyncroFlo
24	Low-Voltage Switchgear – Section 16346	SquareD	SquareD
25	Switchboards – Section 16426	SquareD	SquareD
26	Switchboards – PS10 – Section 16426	SquareD	SquareD
27	600 Volt Class Motor Control Centers – Section 16480	SquareD	SquareD
28	Solar Photovoltaic System – Section 16690	Yingli Solar	Yingli Solar