City of Grand Island

Tuesday, May 14, 2013

Council Session

Item I-2

#2013-146 - Consideration of Approving Bid Award for Grand Island Wastewater Treatment Plant Headworks Improvements; Project No. WWTP-2013-1

Staff Contact: John Collins, P.E. - Public Works Director

Council Agenda Memo

From: Marvin Strong PE, Wastewater Treatment Plant Engineer

Meeting: May 14, 2013

Subject: Approving Award for the Construction of Project No. WWTP-2013-1; Headwork's Improvements at the Wastewater Treatment Plant

Item #'s: I-2

Presenter(s): John Collins PE, Public Works Director
Terry Brown PE, Manager of Engineering Services
Marvin Strong PE, Wastewater Plant Engineer

Background

Public Works Staff in conjunction with the design engineer, Black & Veatch of Kansas City, Missouri have jointly developed bidding documents, entitled; Headworks Improvement, Project WWTP-2013-1 to construct a new wastewater pumping station, flow measurement, and grit removal systems at the Wastewater Treatment Plant.

The primary purpose of the Headworks Improvements project is to replace existing influent (wastewater entering the plant) pumping, measuring, and screening equipment that is at or near the end of its useful life. The facilities have been sized to accommodate City of Grand Island growth.

Common to sewer collection systems is the use of gravity sewers to convey wastewater. At intervals where a buried sewer collection pipe reaches depths that are no longer economical to convey as gravity, a lift station is established. This type of lift station or "Pump Station" is used to raise the wastewater to a higher point to start the gravity conveyance sequence again.

A new building will be constructed for the pumping equipment to lift influent sewer flow to a higher elevation established by the design engineer to allow for gravity conveyance thru the wastewater treatment plant. A new screening process will be installed to collect and remove debris from the flow stream prior to the pumping equipment. The screening equipment will also include a washing process to reduce the organic content (odors) of the screened material. The existing pump station will eventually be decommissioned.

Instrumentation will be installed to accurately measure the wastewater flow. This flow measurement will be after the pump station and prior the grit removal system.

The grit removal system is being upgraded and replaced with newer equipment and process technology. A new building will house the cleaning, conveyance, handling and load out system. The new system will collect and remove a higher amount of smaller grit particles from the wastewater flow and decrease the moisture content of the washed grit when compared to the old system. These improvements will benefit other downstream pumping and process equipment at the treatment facility by reducing overall wear and increasing the operating life of such equipment.

The new pumping, measuring, and grit removal system will connect to an existing plant control or SCADA (Supervisory and Data Acquisition) System for additional automation and operational management at the wastewater facility.

All functions of the new facilities have been designed with odor reduction elements. Additionally, an electrical distribution system will be installed in coordination with City Utilities Department.

The new treatment and support facilities, for the most part, will be constructed on the west side of the site within the limits of the former "Sludge Storage Lagoon Area" where sufficient space is available. This location allows for less expensive, open-cut excavation with minimal disruption to existing plant operations. Once the new facilities are operational, the existing facilities can be decommissioned.

Discussion

The Wastewater Division of the Public Works Department advertised for bids for this project on March 25, 2013 and opened bids on April 25, 2013.

The Public Works Department, Wastewater Division, and the Purchasing Division of the City Attorney's Office have reviewed all bids received. Three (3) bids were received with base bids ranged from $16,768,000 to $23,330,400. The engineer's opinion of cost for the base bid was $16,066,000. The additive/deductive alternatives varied in pricing between the individual bids.

The engineer's cost opinion was within five (5) percent of the lowest bid and is considered to be within the range of accuracy expected for this type of project. The number of bidders, other regional projects bidding at this time, and the current market conditions were all factors that likely attributed to the higher bids received. In addition, Black & Veatch reviewed the bids to understand where differences exist between their cost opinion and the bids and preliminary value engineering discussions were held with the apparent low bidding contractor, Garney Companies, Inc. The major cost differences and value engineering ideas were associated with overexcavation requirements within the former "Sludge Storage Lagoon Area", dewatering, concrete for new treatment structures, controlled low strength material for pipe abandonment, and by-pass pumping requirements. These items are discussed in further detail below:

- Some of the new treatment structures, support facilities, piping, and concrete pavement will be constructed within the limits of the former "Sludge Storage Lagoon Area" and above its former bottom elevation. The lagoon has been partially backfilled, but the backfilled soils were not sufficiently compacted to provide suitable bearing capacity for the proposed work.

As such, the bid documents require over excavation to the former lagoon bottom and placement of compacted soils to the bottom of the new foundations. This is not a typical requirement and adds costs to the project. Other methods could be considered to reduce costs, such as pre-loading the areas to consolidate the existing soils.

- Dewatering costs were higher due to a misunderstanding of where water could be discharged, resulting in longer discharge piping than what is needed.
- Aggregate in concrete used for liquid-containing structures must not possess a potential for alkali reactivity, which impacts long-term performance and durability of the concrete. Concrete suppliers were unsure if acceptable aggregate would be available locally, thereby increasing the cost of concrete that was provided to the bidders. Preliminary testing could be performed to confirm the suitability of the aggregates and possibly reduce the concrete cost
- Controlled low strength material (CLSM) is required for pipe abandonment, mainly for the interceptors being replaced. CLSM is a cement-based mixture with small aggregate that is typically used to fill abandoned pipe. Alkali reactivity is not a concern for CLSM, but may have been a factor for high supplier costs. The difficulty in placing the CLSM may have impacted the total cost due to the depths of the interceptor piping and since the piping is below the groundwater table.
- By-pass pumping requirements were clarified for the interceptor work. No by-pass pumping is required for the North Interceptor and less pumping should be needed for the West Interceptor than what the contractor assumed.

These discussions identified items that should reduce the contractor's risk, contingency, and costs currently in the bid. Subsequent discussions are planned after bid award.

Bid Summary Table

	Garney Companies, Inc.	Eriksen Construction Co. Inc.	Oakview dck, LLC
Lump Sum Base Bid	$ 16,768,000	$ 17,260,124	$ 23,330,400
Additive/Deductive Alternatives			
A. Plant Interceptor Piping (FPRM)	$ 75,000	$ 69,000	$ No Bid
B. Plant Interceptor Piping (PPSP)	$ 0.00	$ No Bid	$ No Bid
C. De-gritted Wastewater Piping (FPRM)	$ 0.00	$ (193,000)	$ No Bid
D. Plant Drain Piping (HDPE)	$ 10,000	$ No Bid	$ No Bid
E. Two-Year Correction Period	$ 150,000	$ 300,000	$ 550,000

FRPM – Fiberglass Reinforced Polymer Mortar
PPSP – Polypropylene Sewer Pipe
HDPE – High Density Polyethylene

City staff and Engineer have discussed additive/deductive alternatives and are bringing forward the recommendation in:

Accepting (additive) alternative A; furnishing and installing fiberglass reinforced polymer mortar pipe (FRPM) in place of the base bid piping system of polyvinyl chloride sewer pipe (PVCSP) in the amount of $75,000.

Denying alternative B; furnishing and installing polypropylene sewer pipe (PPSP) in place of the base bid piping system of polyvinyl chloride sewer pipe (PVCSP) in the amount of $0.00.

Accepting (additive) alternative C; furnishing and installing fiberglass reinforced polymer mortar pipe (FRPM) in place of the base bid piping system of ductile iron pipe (DIP) in the amount of $0.00.

Denying (additive) alternative D; furnishing and installing high density polyethylene (HDPE) in place of the base bid piping system of polyvinyl chloride sewer pipe (PVCSP) in the amount of $10,000.00.

Accepting (additive) alternative E; Base bid was based on a one-year correction period this alternative covers the additive price for one additional year of correction period, which will provide a two-year correction period for the project in the amount of $150,000.00.

Although polyvinyl chloride sewer pipe (PVCSP) pipe is an acceptable material for buried gravity sewer, we feel that utilizing fiberglass reinforced polymer mortar pipe (FRPM) will increase the project's success both during construction and in the long term, match the North Interceptor pipe materials, and provide better overall value to the City. The reasons for this include the following:

- Closed profile wall PVCSP pipe can become brittle in cold weather which can cause damage to the pipe during installation. FRPM does not have this issue.

- Long term deflection for the closed profile wall PVCSP pipe can be up to 7.5% versus 5.0% of FRPM. The greater the deflection, the more stress is on the pipe which can lead to lower design life. There is also a decrease in pipe capacity with greater deflection.

- The manholes that will be provided with the FRPM pipe will be fiberglass reinforced pipe (FRP), which is corrosion resistant. In addition, the manhole bases are fabricated FRPM 'tee base' pipe fittings. The combination of fittings, the FRPM pipe, and FRP manholes makes this a completely corrosion resistant system resulting in a longer service life.

The result will add $225,000 in alternative selections to the base bid amount of $16,768,000 for a contractual award amount of $16,993,000.

Alternatives

City staff recommends against rejecting all bids and re-advertising because all of the bidders have shown their numbers and bids the second time around is almost always higher unless the project can be scaled back. We have done preliminary value engineering with the design engineer, Black & Veatch, the apparent low bidding contractor, Garney Companies, Inc. and City Staff. We cannot scale back the operations portions of this project to reduce the contract cost and keep pace with increased aging infrastructure; we also do not want to eliminate the odor control measures that are part of this project. The proposed septage receiving area and JBS meter/sampler structure are two elements of the project that were added during the design. Construction of these facilities could be deferred; however, the cost of these facilities would be higher, if separately bid at a future date.

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve the Mayor of the City of Grand Island, Nebraska authorized on behalf of the City of Grand Island to execute a contractual agreement with Garney Companies, Inc. of Gardner, Kansas for the construction of Headworks Improvements, Project WWTP-2013-1.
2. Refer the issue to a Committee.
3. Postpone the issue to future date.
4. Take no action on the issue.

Recommendation

City Administration, and design engineer, Black & Veatch recommends that the Council approve award of construction contract to build the Headworks Improvements, Project WWTP-2013-1 at the Wastewater Treatment Plant to Garney Companies, Inc. of Gardner, Kansas.

Sample Motion

Move to approve the Mayor of the City of Grand Island, Nebraska authorized on behalf of the City of Grand Island to execute a contractual agreement with Garney Companies, Inc. of Gardner, Kansas for the construction of Headworks Improvements, Project WWTP-2013-1.

CITY OF GRAND ISLAND

Stacy Nonhof, Purchasing Agent

Working Together for a Better Tomorrow, Today

BID OPENING

BID OPENING DATE:	**April 25, 2013 at 2:00 p.m.**
FOR:	**WWTP Headworks Improvements, Project WWTP-2013-1**
DEPARTMENT:	**Public Works**
ESTIMATE:	**$16,066,000.00**
FUND/ACCOUNT:	**53030054-85213** **53030054-53014**
PUBLICATION DATE:	**March 25, 2013**
NO. POTENTIAL BIDDERS:	**6**

SUMMARY

Bidder:	**Eriksen Construction Co., Inc.** **Blair, NE**	**Garney Companies, Inc.** **Gardner, KS**
Bid Security:	**Travelers Casualty & Surety Co.**	**Western Surety Co.**
Exceptions:	**None**	**None**
Bid Price:	**$17,260,124.50**	**$16,768,000.00**
Piping (FRPM):	**$ +69,000.00**	**$ +75,000.00**
Piping (PPSP):	**No Bid**	**No Bid**
De-gritted Piping:	**$ -193,000.00**	**No Bid**
Drain Piping:	**No Bid**	**$ +10,000.00**
2 Yr. Correction:	**$ +300,000.00**	**$ +150,000.00**

Bidder:	**Oakview dck, LLC** **Red Oak, IA**
Bid Security:	**Liberty Mutual Ins. Co.**
Exceptions:	**None**
Bid Price:	**$23,330,400.00**
Piping (FRPM):	**No Bid**
Piping (PPSP):	**No Bid**
De-gritted Piping:	**No Bid**
Drain Piping:	**No Bid**
2 Yr. Correction:	**$ +550,000.00**

cc: John Collins, Public Works Director
Mary Lou Brown, City Administrator
Stacy Nonhof, Purchasing Agent
Terry Brown, PW Mgr. of Engineering
Catrina DeLosh, PW Admin. Assist.
Jue Zhao, WWTP Project Manager
Marvin Strong, WWTP Engineer
Jaye Monter, Finance Director

P1638

BLACK & VEATCH
Building a world of difference.

May 3, 2013

City of Grand Island, Nebraska Publics Works Dept.
Grand Island Wastewater Treatment Plant
and Collection System Improvements

B&V Project 175144.5300
B&V File 80.1130

Mr. Terry Brown
City of Grand Island, Nebraska
100 East 1st Street
Grand Island, Nebraska 68801

Headworks Improvements – Bid Recommendation

Attention: Terry

Three bids were received and opened on April 25, 20013 at City Hall for the Headworks Improvements project. 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. The following is an alphabetical list of the contractor's lump sum base bids that were received and read aloud.

Contractor	Total Lump Sum Base Bid
Eriksen Construction Company, Inc.	$17,260,124.50
Garney Companies, Inc.	$16,768,000.00
Oakview, dck, LLC (see note below)	$23,330,399.75

Note: Errors made in the multiplication of two unit price items resulting in an incorrect total bid shown on Bid Form. Corrected bid is shown above.

The enclosed bid tabulation summarizes the lump sum base bid prices, unit price items, bid alternatives prices, proposed subcontractors and equipment suppliers, 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 $492,124.50 less than the next lowest bid from Eriksen Construction Company, Inc. (Eriksen). All bids were more than the Engineer's opinion of probable construction cost of $16,066,000. The Engineer's cost opinion was within five (5) percent of 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, and the current market conditions were all factors that likely attributed to the higher bids received.

The bids were reviewed to understand where differences exist between the Engineer's cost opinion and the bids. Preliminary value engineering discussions were also held with Garney, the apparent low bidder. The major cost differences and value engineering ideas

were associated with overexcavation requirements within the former sludge storage lagoon area, dewatering, concrete for new treatment structures, controlled low strength material for pipe abandonment, and by-pass pumping requirements. These items are discussed in further detail below:

- Some of the new treatment structures, support facilities, piping, and concrete pavement will be constructed within the limits of the former sludge storage lagoon area and above its former bottom elevation. The lagoon has been partially backfilled, but the backfilled soils were not sufficiently compacted to provide suitable bearing capacity for the proposed work. As such, the bid documents require overexcavation to the former lagoon bottom and placement of compacted soils to the bottom of the new foundations. This is not a typical requirement and adds costs to the project. Other methods could be considered to reduce costs, such as pre-loading the areas to consolidate the existing soils.
- Dewatering costs were higher due to a misunderstanding of where water could be discharged, resulting in longer discharge piping than what is needed.
- Aggregate in concrete used for liquid-containing structures must not possess a potential for alkali reactivity, which impacts long-term performance and durability of the concrete. Concrete suppliers were unsure if acceptable aggregate would be available locally, thereby increasing the cost of concrete that was provided to the bidders. Preliminary testing could be performed to confirm the suitability of the aggregates and possibly reduce the concrete cost.
- Controlled low strength material (CLSM) is required for pipe abandonment, mainly for the interceptors being replaced. CLSM is a cement-based mixture with small aggregate that is typically used to fill abandoned pipe. Alkali reactivity is not a concern for CLSM, but may have been a factor for high supplier costs. The difficulty in placing the CLSM may have impacted the total cost due to the depths of the interceptor piping and since the piping is below the groundwater table.
- By-pass pumping requirements were clarified for the interceptor work. No by-pass pumping is required for the North Interceptor and less pumping should be needed for the West Interceptor than what the contractor assumed.

These discussions identified items that should reduce the contractor's risk, contingency, and costs currently in the bid. Subsequent discussions are planned after bid award.

Bid Alternatives

The following summarizes our recommendations related to the bid alternatives:

- Bid Alternative 1 (Plant Interceptor Piping – FRPM): To be consistent with the North Interceptor recommendations, using fiberglass reinforced polymer mortar (FRPM) pipe is recommended. Garney's additional cost of $75,000 to install FRPM, in lieu of PVC pipe used in the Base Bid, is reasonable.
- Bid Alternative 2 (Plant Interceptor Piping – PPSP): The use of polypropylene sewer pipe (PPSP) is not necessary, if Bid Alternative 1 is implemented.
- Bid Alternative 3 (De-Gritted Wastewater Piping – FRPM): Garney provided a price of $0.00 indicating that FRPM pipe would be installed at no additional cost to

ductile iron pipe (DIP) used in the Base Bid. Using FRPM pipe is recommended since it is more corrosion resistant and should have a longer service life than DIP.

- Bid Alternative 4 (Plant Drain Piping – HDPE): Garney provided a price of an additional $10,000.00 to install high density polyethylene (HDPE) pipe, in lieu of PVC pipe used in the Base Bid. Fused joints used for HDPE pipe would reduce the amount of groundwater infiltration and subsequent treatment through the plant. The additional cost of $10,000 for the relatively short length of plant drain piping would not be worth the minimal savings in treatment.
- Bid Alternative 5 (Two-Year Correction Period): Garney provided a price of an additional $150,000.00 to provide a two (2)-year correction period, in lieu of a one (1)-year correction period used in the Base Bid. The cost is less than one (1) percent of the bid price and is reasonable for an additional year of correction period coverage.

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 – Joey Perell or Marc Grace. Joey is currently the project manager for the City of Olathe, KS Cedar Creek Wastewater Treatment Plant Improvements project. Marc is currently the project manager for the Midland, TX Water Supply project. Both of these are Black & Veatch projects that are nearing completion.
- Superintendent - Brian Schultz or Joe Ross. Brian is currently the project manager for the City of St. Joseph, MO Disinfection Improvements project and has served as a field superintendent on previous projects. Joe was the superintendent for the Johnson County, KS Facility 3 Water Treatment Plant.

We are familiar with these individuals from their current or past roles on Black & Veatch projects. All 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. Garney is listed to self-perform the concrete construction, process mechanical equipment and piping installations, and yard piping. Black & Veatch has previously worked with Davin Electric, Hartman Walsh (painting), and BL Mechanical (HVAC). We have found each of these to be competent subcontractors. Island Landhandlers is located in Grand Island. Olsson has previously worked with them and does not have any concerns with past performance. We have no previous project experience with Kelley Dewatering, Thompson Masonry, and Weathercraft (Roofing). We communicated with Kelley during design to obtain budgetary costs. Kelley is headquartered in Grand Rapids, MI and is licensed to perform work in NE. Thomspon Masonry is located in Yutan, NE (east of Omaha) and has been in business for over 20 years. Weathercraft is headquartered in North Platte, NE and has been in business for over 40 years. If subsequent investigations indicate any concerns with these subcontractors, we will inform the City. The Contract

Documents state that Contractor must replace a subcontractor against 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 the 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 as required. All EMRs were less than one (1) to meet the safety requirement.

We have not received any significant negative feedback on their performance and capabilities from our experience with them on past projects and our current projects, including the City of Olathe, KS Cedar Creek Wastewater Treatment Plant Improvements, and City of Midwest City, OK 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. Dun & Bradstreet gave them a credit score of 3 (1 is lowest risk; 5 highest risk), which ranks them in the top 23.5% of companies in the Dun & Bradstreet database. 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 Headworks Improvements project. As such, we recommend that the City award the contract to Garney at a total price of $16,993,000.00 for the Lump Sum Base Bid, Bid Alternative 1, Bid Alternative 3, and Bid Alternative 5. In reviewing Eriksen's bid and their prices for these bid alternatives, Garney would remain the low bidder.

If you have any questions, please feel free to contact me at (913) 458-6558 or Derek Cambridge at (913) 458-3465.

Very truly yours,
BLACK & VEATCH

Gary J. Schnettgoecke
Engineering Manager

Enclosures

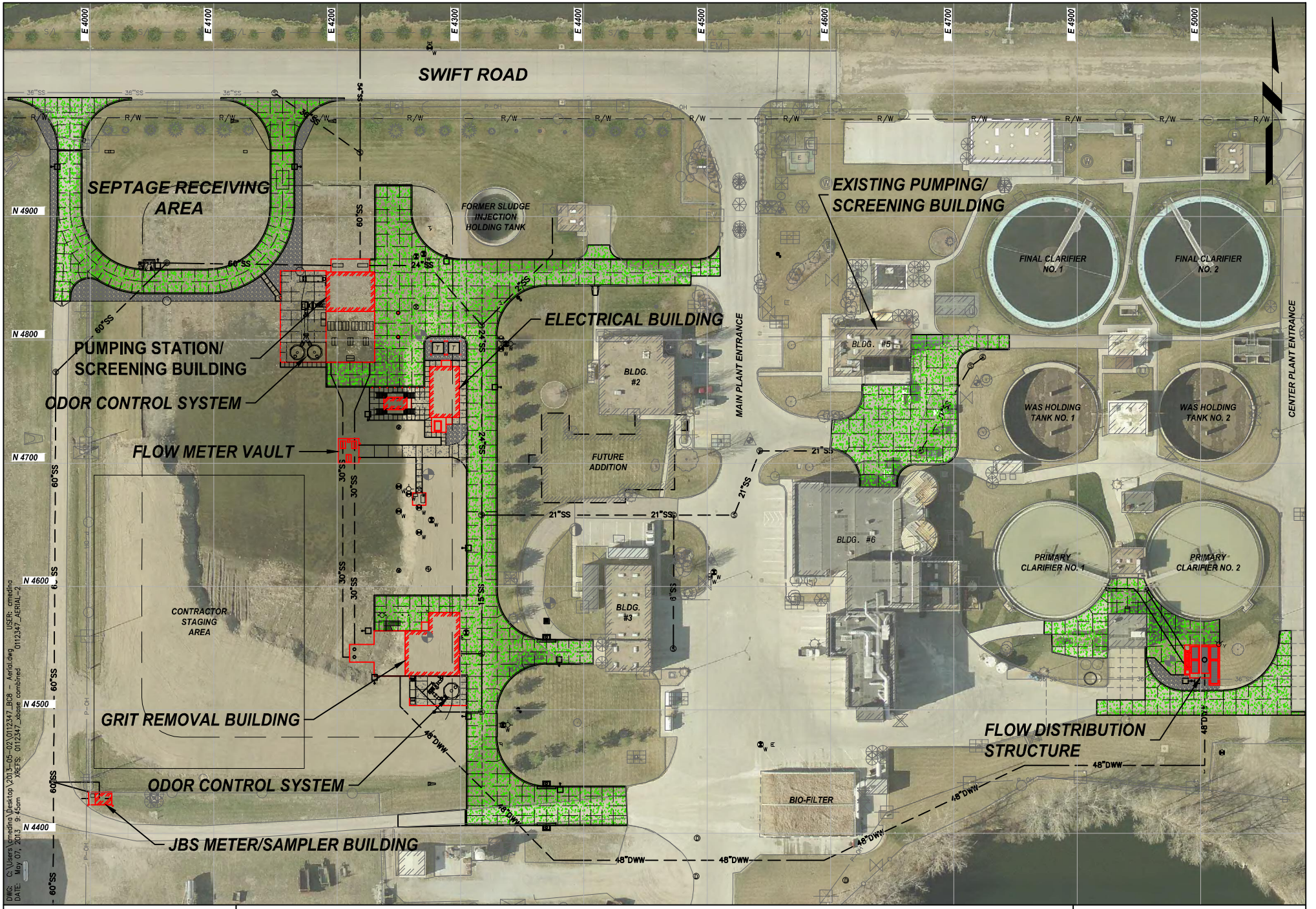
cc: Marvin Strong, City
Jue Zhao, City
Derek Cambridge, B&V
B&V File

City of Grand Island, NE
Grand Island WWTP
Headworks Improvements
Bid Tabulation - April 25, 2013

			Eriksen Construction Co., Inc.		Garney Companies, Inc.		Oakview dck, LLC		Black & Veatch	
Addendum No. 1 Acknowleged?			yes		yes		yes		N/A	
Addendum No. 2 Acknowleged?			yes		yes		yes		N/A	
Addendum No. 3 Acknowleged?			yes		yes		yes		N/A	
Exceptions			none		none		none		N/A	
Bid Package Complete									N/A	
Bidder Checklist Form			yes		yes		yes		N/A	
Acknowledgement of Addenda			yes		yes		yes		N/A	
Firm Unit Pricing; or Lump Sum Pricing as Applicable			yes		yes		yes		N/A	
Certificate of Compliance Fair Labor Standards			yes		yes		yes		N/A	
Evidence of Bidder's Qualifications to do Business in Nebraska			yes		yes		yes		N/A	
List of Subcontractors			yes		yes		yes		N/A	
Equipment Questionnaire			yes		yes		yes		N/A	
Qualifications of Bidders			yes		yes		yes		N/A	
Exceptions to the Bid (if any)			yes		yes		yes		N/A	
Bid Security			Not Provided to B&V		Not Provided to B&V		Not Provided to B&V		N/A	
Bidder Qualifications Met?			yes		yes		yes		N/A	
EMR < 1 for Last 3 Years and on Insurance Company Letterhead?			yes		yes		yes		N/A	
Bid Prices										
1.0 Complete Work, Except Items Below			$17,044,000.00		$16,589,240.00		$23,159,000.00		$15,882,000.00	
	Units	**Estimated Qty**	**Unit Price**	**Total Price**	**Unit Price**	**Total Price**	**Unit Price**	**Total Price**	**Unit Price**	**Total Price**
2.0 Additional Structure Excavation and Select Fill - Raw Wastewater Pumping Station	Cubic Yards	475.0	$23.70	$11,257.50	$21.00	$9,975.00	$19.75	$9,381.25	$45.00	$21,375.00
3.0 Additional Structure Excavation and Select Fill - JBS Meter and Sampler Building	Cubic Yards	60.0	$20.50	$1,230.00	$21.00	$1,260.00	$17.10	$1,026.00	$25.00	$1,500.00
4.0 Additional Structure Excavation and Select Fill - Flow Distribution Structure	Cubic Yards	175.0	$20.50	$3,587.50	$21.00	$3,675.00	$17.10	$2,992.50	$25.00	$4,375.00
5.0 Additional Structure Overexcavation and Select Fill - Engine-Generator Pad	Cubic Yards	40.0	$20.50	$820.00	$21.00	$840.00	$17.10	$684.00	$25.00	$1,000.00
6.0 Additional Structure Overexcavation and Select Fill - Other Structures	Cubic Yards	750.0	$20.50	$15,375.00	$21.00	$15,750.00	$17.10	$12,825.00	$25.00	$18,750.00
7.0 Additional Structure Overexcavation and Select Fill - Concrete Pavement and Raw Wastewater Force Mains	Cubic Yards	500.0	$20.50	$10,250.00	$8.00	$4,000.00	$17.10	$8,550.00	$25.00	$12,500.00
8.0 Removal of Unsuitable Subgrade Materials and Replacement with Crushed Rock	Cubic Yards	1100.0	$91.50	$100,650.00	$75.00	$82,500.00	$76.15	$83,765.00	$40.00	$44,000.00
9.0 Placement of Geogrid	Square Yards	1800.0	$1.75	$3,150.00	$3.00	$5,400.00	$1.75	$3,150.00	$5.00	$9,000.00
10.0 Placement of Filter Fabric	Square Yards	1500.0	$1.75	$2,625.00	$2.00	$3,000.00	$1.20	$1,800.00	$3.75	$5,625.00
11.0 16-inch Well Casing	Feet	70.0	$81.60	$5,712.00	$70.00	$4,900.00	$68.00	$4,760.00	$180.00	$12,600.00
12.0 16-inch Well Screen	Feet	116.0	$270.00	$31,320.00	$230.00	$26,680.00	$225.00	$26,100.00	$280.00	$32,480.00
13.0 8-inch Pump Column	Feet	166.0	$91.25	$15,147.50	$80.00	$13,280.00	$76.00	$12,616.00	$55.00	$9,130.00
14.0 Concrete Crack Repair	Feet	150.0	$100.00	$15,000.00	$50.00	$7,500.00	$25.00	$3,750.00	$75.00	$11,250.00
Total Lump Sum Base Bid				**$17,260,124.50**		**$16,768,000.00**		**$23,330,399.75**		**$16,066,000.00**
							Shading indicates error in multiplication of unit price items on Oakview's Bid Form and incorrect total bid			

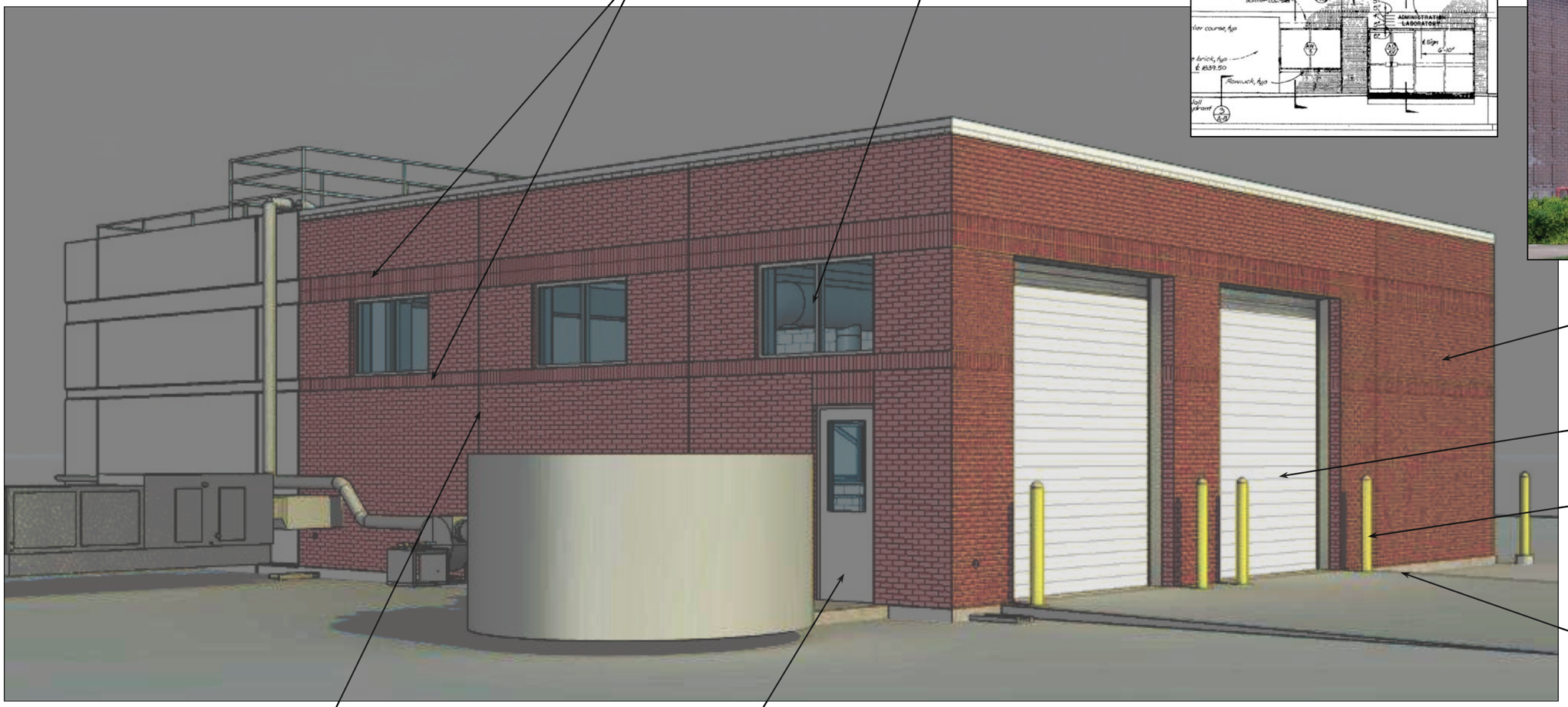
City of Grand Island, NE
Grand Island WWTP
Headworks Improvements
Bid Tabulation - April 25, 2013

	Eriksen Construction Co., Inc.	Garney Companies, Inc.	Oakview dck, LLC	Black & Veatch
Bid Alternatives				
Bid Alternative 1.0 - Plant Interceptor Piping (FRPM)	+$69,000	+$75,000	NO BID	NA
Bid Alternative 2.0 - Plant Interceptor Piping (PPSP)	NO BID	$0	NO BID	NA
Bid Alternative 3.0 - De-gritted Wastewater Piping (FRPM)	-$193,000	$0	NO BID	NA
Bid Alternative 4.0 - Plant Drain Piping (HDPE)	NO BID	+$10,000	NO BID	NA
Bid Alternative 5.0 - Two-Year Correction Period	+$300,000	+$150,000	+$550,000	NA
List of Subcontractors				
Excavation	Eriksen Construction	Island Landhandlers	Island Landhandlers	NA
Dewatering	Mersino	Kelley Dewatering	TBD	NA
Concrete	Consolodated Concrete/Gerhold	Garney	Oakview	NA
Masonry	Thompson Masonry	Thompson Masonry	Thompson Masonry	NA
Process Mechanical	Eriksen Construction	Garney	Oakview	NA
HVAC Mechanical	Jerry's Sheetmetal	BL Mechanical	Jerry's Sheetmetal	NA
Plumbing	Eriksen Construction	Garney	TBD	NA
Electrical	Dick's Electric	Davin Electric	IES	NA
Roofing	Weather Craft	Weather Craft	Weather Craft	NA
Painting	Mongon Painting	Hartman Walsh	Mongon Painting	NA
Yard Piping	Eriksen Construction	Garney	K2 Construction	NA
Equipment Questionnaire				
Section 11122 – Horizontal, End Suction Grit Pumps	Fairbanks Morse	Fairbanks Morse	Fairbanks Morse	NA
Section 11150 – Submersible Pumps	ABS	ABS	ABS	NA
Section 11155 – Submersible Well Pumps	Goulds	Goulds	Goulds	NA
Section 11312 – Mechanically Cleaned Bar Screens	Vulcan Industries	Vulcan Industries	Vulcan Industries	NA
Section 11321 – Grit Removal Equipment Gravity Type	Hydro International (without exception)	Hydro International (without exception)	Hydro International (without exception)	NA
Section 11322 – Grit Separation and Classification Equipment	Hydro International (without exception)	Hydro International (without exception)	Hydro International (without exception)	NA
Section 11325 – Screenings Washer/Compactor Equipment	Vulcan Industries	Vulcan Industries	Vulcan Industries	NA
Section 11354 - Carbon Absorption Units	ECS	ECS	ECS	NA
Section 11356 - Odor Control Fans	ECS	ECS	ECS	NA
Section 11910 – Engine Generator	Caterpillar	MTU	Caterpillar	NA
Section 13530 - Programmable Logic Controllers	Allen Bradley (without exception)	Allen Bradley (without exception)	Allen Bradley (without exception)	NA
Section 15093 - Check Valves	APCO	Pratt	APCO	NA
Section 15102 - Eccentric Plug Valves	DeZurik	Pratt	DeZurik	NA
Section 15113 - Fabricated Stainless Steel Slide Gates	Rodney Hunt	Whipps	Rodney Hunt	NA
Section 15114 - Open-Channel Metal Slide Gates and Weir Gates	Rodney Hunt	Whipps	Rodney Hunt	NA
Section 16150 - Adjustable Frequency Drives	Allen Bradley (without exception)	Allen Bradley (without exception)	Allen Bradley (without exception)	NA
Section 16480 - 600 Volt Class Motor Control	Square D	Square D	Square D	NA



HEADWORKS IMPROVEMENTS

PROPOSED SOUTHEAST PERSPECTIVE

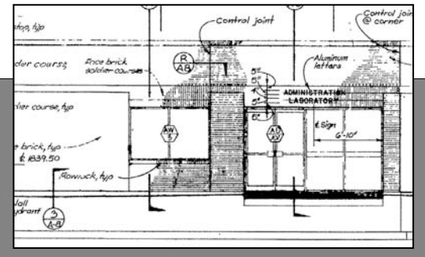


DOUBLE AND SINGLE BRICK SOLDIER COURSES

PRE-FINISHED ALUMINUM FRAMED WINDOW

BRICK VENEER CONTROL JOINT

FRP DOOR & FRAME WITH HALF GLASS



CONTEXT

RUNNING BOND FACE BRICK TO MATCH EXISTING "VINTAGE BROWN VELOUR" BY SIOUX CITY BRICK

PRE-FINISHED ALUMINUM OVERHEAD COILING DOOR TO MATCH EXISTING

PAINTED GUARD POST TO MATCH EXISTING

CAST-IN-PLACE CONCRETE SLAB AND FOUNDATION

PROPOSED NORTHWEST PERSPECTIVE

ALUMINUM STAIRS, GUARDRAILS AND HANDRAILS

CLEAR ANODIZED ALUMINUM COPING TO MATCH EXISTING

CONCRETE REVEALS TO MATCH DOUBLE AND SINGLE SOLDIER COURSES

RUNNING BOND FACE BRICK TO MATCH EXISTING "VINTAGE BROWN VELOUR" BY SIOUX CITY BRICK

CAST-IN-PLACE CONCRETE WALLS AND FOUNDATION

Grit Facility (Building #27)

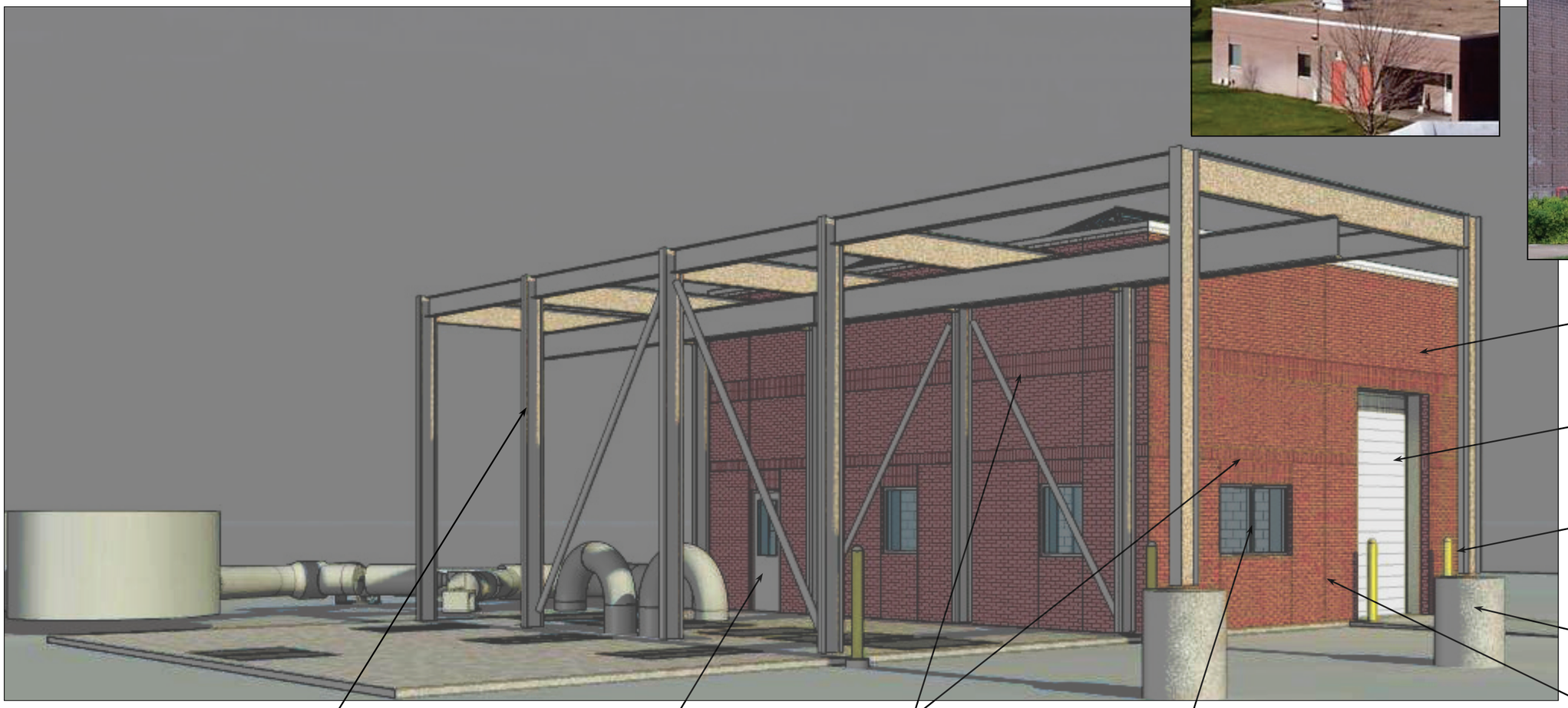
Grand Island WWTP - Headworks Improvements

Grand Island, Nebraska

October 2012

BLACK & VEATCH
Building a world of difference®

PROPOSED SOUTHEAST PERSPECTIVE



CONTEXT

RUNNING BOND FACE BRICK
TO MATCH EXISTING
"VINTAGE BROWN VELOUR"
BY SIOUX CITY BRICK

PRE-FINISHED ALUMINUM
OVERHEAD COILING DOOR
TO MATCH EXISTING

PAINTED GUARD POST
TO MATCH EXISTING

CAST-IN-PLACE CONCRETE
SLAB AND FOUNDATION

BRICK VENEER
CONTROL JOINT

PAINTED, GALVANIZED STEEL
MONORAIL FRAME

FRP DOOR & FRAME
WITH HALF GLASS

DOUBLE AND SINGLE
BRICK SOLDIER COURSES

PRE-FINISHED ALUMINUM
FRAMED WINDOW

PROPOSED NORTHWEST PERSPECTIVE

CLEAR ANODIZED
ALUMINUM COPING
TO MATCH EXISTING

RUNNING BOND FACE BRICK
TO MATCH EXISTING
"VINTAGE BROWN VELOUR"
BY SIOUX CITY BRICK

BRICK VENEER
CONTROL JOINT

PAINTED, GALVANIZED STEEL
MONORAIL FRAME

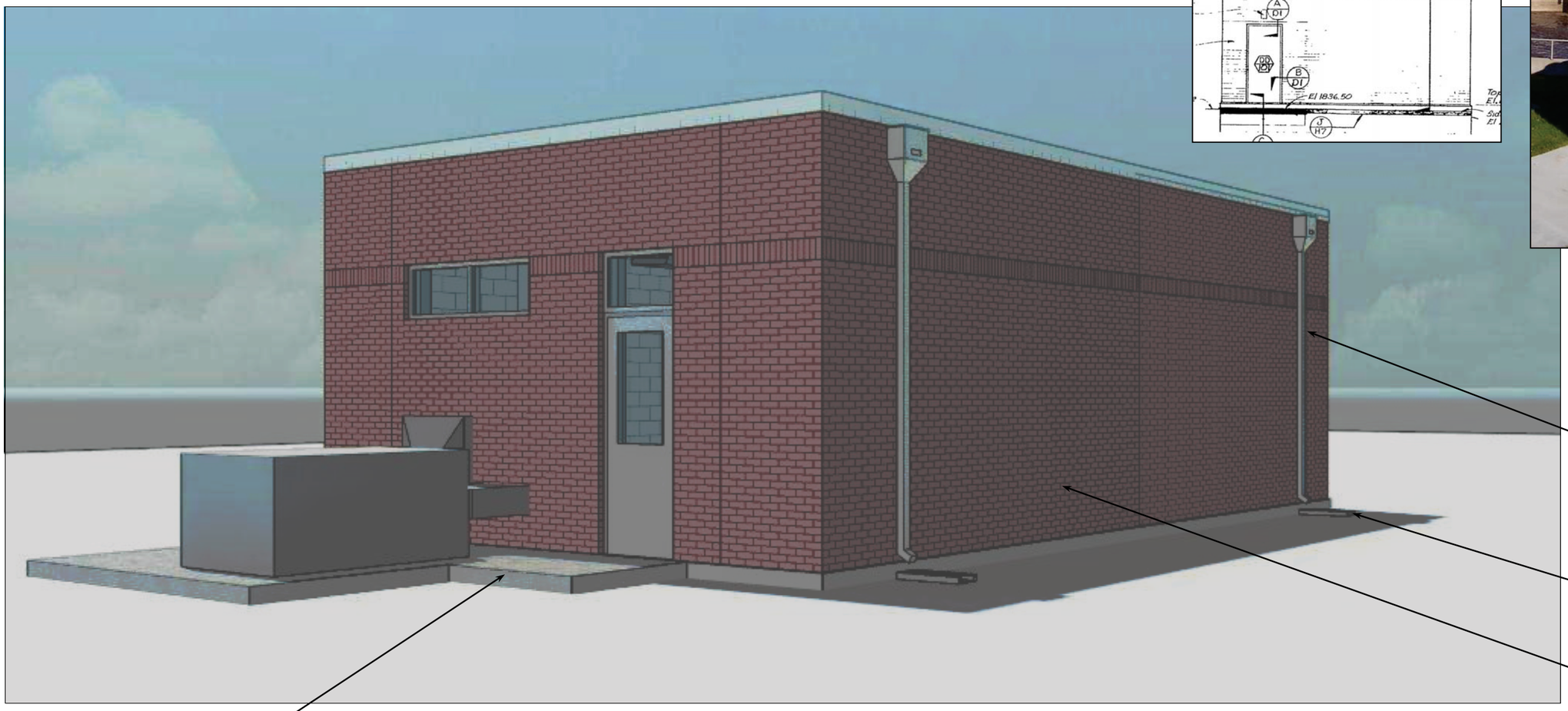
PRE-FINISHED ALUMINUM
FRAMED WINDOW

Raw Wastewater Pump Station (Building #26)

Grand Island WWTP - Headworks Improvements
Grand Island, Nebraska
October 2012

BLACK & VEATCH
Building a world of difference®

PROPOSED SOUTHEAST PERSPECTIVE

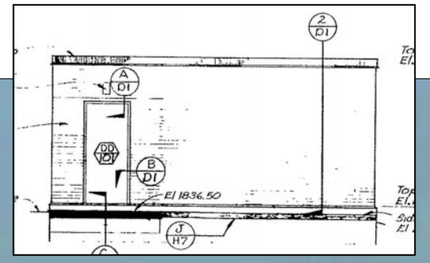


PRE-FINISHED ALUMINUM SCUPPER AND DOWNSPOUT TO MATCH EXISTING

CONCRETE SPLASHBLOCK

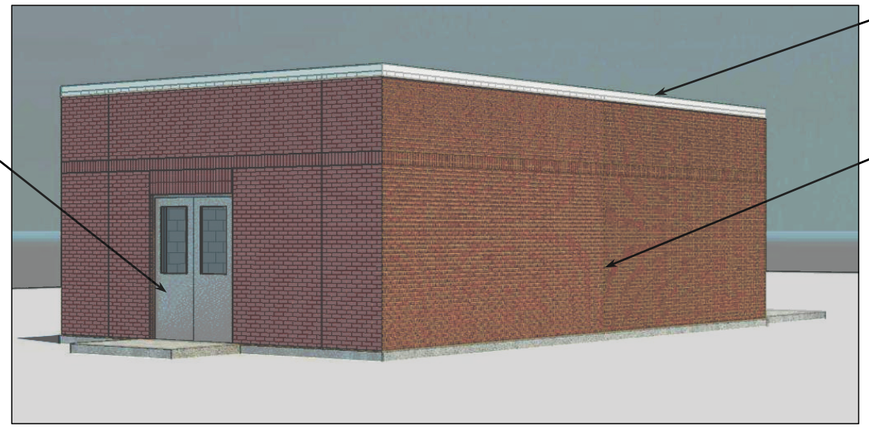
RUNNING BOND FACE BRICK TO MATCH EXISTING "VINTAGE BROWN VELOUR" BY SIOUX CITY BRICK

CAST-IN-PLACE CONCRETE SLAB AND FOUNDATION



CONTEXT

PROPOSED NORTHWEST PERSPECTIVE



CLEAR ANODIZED ALUMINUM COPING TO MATCH EXISTING

VENEER CONTROL JOINT

FRP DOOR & FRAME WITH HALF GLASS

Electrical Building (Building #28)

Grand Island WWTP - Headworks Improvements

Grand Island, Nebraska

October 2012

BLACK & VEATCH
Building a world of difference.®

R E S O L U T I O N 2013-146

WHEREAS, On March 25, 2013 the City of Grand Island invited sealed bids for Construction of Headworks Improvements (Project WWTP-2013-1), according to plans and specifications on file with the Purchasing Division of the Legal Department; and

WHEREAS, On April 25, 2013 bids were received, opened and reviewed; and

WHEREAS, Garney Companies Inc. of Gardner, Kansas submitted a bid in accordance with the terms of the advertisement of bids, plans, and specifications and all other statutory requirements contained therein, such bid being in the amount of $16,768,000 plus $225,000 for the additive alternate bid for a total bid amount of $16,993,000; and

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the bid of Garney Companies Inc. of Gardner, Kansas, in the amount of $16,768,000 plus $225,000 for the additive alternate bid for a total bid amount of $16,993,000 for construction of Headworks Improvements (Project WWTP-2013-1) is hereby approved as the lowest responsible bid; and

BE IT FURTHER RESOLVED, that a contract agreement for such project, Headworks Improvements between the City of Grand Island and such Contractor, Garney Companies Inc. of Gardner, Kansas is entered into, and the Mayor is hereby authorized and directed to execute such contract agreement on behalf of the City of Grand Island.

- - -

Adopted by the City Council of the City of Grand Island, Nebraska, May 14, 2013.

_____
Jay Vavricek, Mayor

Attest:

_____
RaNae Edwards, City Clerk

Approved as to Form ¤ _____
May 14, 2013 ¤ City Attorney